

Appendix A
Staff Handbook of Energy and Power
Engineering Program

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Teachers for General Courses

Electric Power Engineering

Name	Xin, Sun
Post	Associate Professor
Academic career	Qinghua University, Doctor, Electrical Engineering
Employment	2004.7-2016.11, Jiangsu University, teacher 2016.12 to now, Shanghai University of Electric Power, teacher
Research and development projects over the last 5 years	1. Participate in the sub-subject of the National Key Research and Development Plan "Integrated Application and Demonstration of Micro-synchronous Phasor Measurement Technology for Smart Distribution Network" (2017YFB0902805) 2. Participate in the sub-subject of the National Key Research and Development Program "Research and Development of Key Technologies for Enterprise-level Energy Internet Networking and Optimization Operation" (2016YFE0105300)
Industry collaborations over the last 5 years	Science and Technology Project of Shanghai Electric Power Company "Electric Vehicle Charging User Portrait Technology and its Application in Electric Power Marketing"
Patents and proprietary rights	No
Important publications	Modelling and optimisation of residential electricity consumption considering energy storage and elastic electrical equipment, IET Journal of Engineering
Activity in professional associations within the last five years	No

Name	An Duo, Hu
Post	lecturer
Academic career	2006-2009 Sichuan University, Master degree 2009-2013 University of Chinese Academy of Sciences, Doctor
Employment	Now Shanghai University of Electric Power
Research and development projects over the last 5 years	Project of Shanghai University Young Teacher Training Subsidy Program
Industry collaborations over the last 5 years	No
Patents and proprietary rights	Design method of metal dielectric reflection grating. ZL : 201110356432.2
Important publications	[1] Guo C, Hu A. Three-dimensional shape measurement of aspheric mirrors with null phase measuring deflectometry[J]. OPTICAL ENGINEERING. 2019, 58(10410210). [2] Hu A, Chu F, Guo C, et al. Wideband reflective quarter-wave plates based on subwavelength mixed metal dielectric gratings[J]. OPTIK. 2018, 163: 120-125. [3] Hu A, Zhou C, Cao H, et al. Polarization-independent wideband mixed metal dielectric reflective gratings[J]. Applied Optics. 2012, 51(20): 4902-4906. [4] Hu A, Zhou C, Cao H, et al. Modal analysis of high-efficiency wideband reflective gratings[J]. Journal of Optics. 2012, 14(5): 55705.
Activity in professional associations within the last five years	No

Name	Jing, Liu
Post	Lecturer
Academic career	09/2002-03/2005 Shanghai University, Master School of communication & Information Engineering 09/1993-07/1997 Anhui University of Science & Technology ,Bachelor
Employment	03/2015-now College of Electronics and Information Engineering, Shanghai University of Electric Power,
Research and development projects over the last 5 years	01/2013-12/2017 participation , Design and implementation of circular/dual polarized three-dimensional orthogonal woven conformal load-bearing microstrip antenna and array antenna
Industry collaborations over the last 5 years	N/A
Patents and proprietary rights	N/A
Important publications	N/A
Activity in professional associations within the last five years	N/A

School of Foreign Languages

Name	Wei Min, Pan
Post	Professor
Academic career	1984-1986 Hunan Educational Institute, Junior college student 1991, Changsha Railway College, undergraduate, 1993-1996 Hunan University, MA degree 2004-2009 Shanghai Jiao Tong University, PhD.
Employment	1980-1991, Guluping Middle School, Yiyang City, Hunan Province, English teacher 1991-1993 No. 10 Middle School, Yiyang City, Hunan Province, English teacher 1996-2013 Changsha University of Science & Technology, (including former Changsha University of Electric Power) , Professor, dean of the School of Foreign Languages, Director of International Exchange Department 2013—Shanghai University of Electric Power, Professor, Dean of the School of Foreign Languages
Research and development projects over the last 5 years	National Philosophical and Social Science Foundation: Translation of The Selected Works of Mao Tse-tung under the State Translation Program (2018-2021) , Funding: 200,000 RMB (Government's project). Shanghai Philosophical and Social Science Foundation: The Construction of Confucius Institute and the Dissemination of Chinese Culture in Africa (2014-2017), funding: 50,000 人 RMB (Government's project). Shanghai Municipal Education Commission: College English, a Key Course of Shanghai Municipal Education Commission, Period: 2013-2015. Funding: 50,000 RMB (Government's project)
Industry collaborations over the last 5 years	Shanghai Foreign Languages Education Press: Telling Chinese Stories in English in Institutions of Higher Learning, 2018-2020, Funding: 30,000 RMB. Shanghai Foreign Languages Education Press: The English Translation History of The Selected Works of Mao Tse-tung, 2015-2017, Funding: 35,000 RMB.
Patents and proprietary rights	
Important publications	The Status Quo, Mission and Prospect of Translation for Science and Technology in the Context of Globalization, Shanghai Foreign Languages Education Press, 2019, ISBN 978-7-5446-5622-1; An English Course Book On Intercultural Communication, East China Normal University Press, 2017, ,ISBN 978-7-5675-6847-1 Cultural confidence in political discourse translation——Exemplified by

	<p>English versions of Selected Works of Mao Tse-tung, Foreign Language Education, 2018,39(06):80-84.</p> <p>Translating Metaphorical Sci-tech Vocabulary in Selected Works of Mao Tse-tung, Chinese Science & Technology Translators Journal, 2016,29(04):35-37+5.</p>
<p>Activity in professional associations within the last five years</p>	<p>Fellow, Chartered Institute of Linguists</p> <p>President, Society of the Translation and Teaching of Energy and Electric Power, World Interpreter and Translator Training Association(WITTA)</p> <p>Vice President, Shanghai Science and Technology Association</p>

Name	Hua, Xie
Post	Lecturer of School of Foreign Languages
Academic career	1996-2000 Xi'an Jiaotong University, Bachelor of Arts 2001-2009 Shanghai Jiaotong University, Doctor of Philosophy
Employment	2009- Shanghai University of Electric Power
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ●Construction of online English education resource platform based on cloud storage, 2016-2018, Shanghai Hongzuo Information Technology Co. LTD. Funding:50000 RMB. ●Elite College English Class Curriculum construction project. Period: 2018-2020. Partner: Shanghai University of Electric Power. Funding: 50,000 RMB
Industry collaborations over the last 5 years	
Patents and proprietary rights	
Important publications	A contrastive study of textual features in English RAs by Native and Chinese scholars, National Defense Industry Press, 2012 Investigating Chinese EFL Learners' Comprehension of English idioms, Journal of Language Teaching and Research, 2017, volume 8.
Activity in professional associations within the last five years	

College of Mathematics and Physics

Name	Dong Sheng, Chen
Post	Associate Professor
Academic career	2010-2013 Shanghai University Doctor 2002-2005 East China Normal University Master
Employment	2005-now Shanghai University of Electric Power
Research and development projects over the last 5 years	1、 Study on the preparation and properties of Cu-Sb-S ternary thermoelectric materials by solution method , Supported by China Postdoctoral Science Foundation, 2015.9—2017.9, Project leader;
Industry collaborations over the last 5 years	No
Patents and proprietary rights	1、 The invention relates to an inductive spring vibrator experimental tester, Application number: CN201120010246.9 2、 The utility model relates to a temperature difference generation cup for cold and hot separation, Application number: CN201621153546.1
Important publications	1、《University Physics Experiment Course》, China Electric Power Press, The third deputy editor, the second edition in 2013; 2、《Solar cell technology and application》, China Railway Publishing House, The second editor, in 2013. Book number: 978-7-113-16615-1; 3、《General physics experiment》 China Electric Power Press, Editor, the first edition in 2016; 4、《University Physics Experiment Course》 China Electric Power Press, Editor, the first edition in 2016;
Activity in professional associations within the last five years	Innovation and practice of teaching methods, editorial board member

Name	Lan Xiang, Gao
Post	Associate Professor of Physics College
Academic career	1981-1986 East China Normal University Bachelor in Physics 1986-1989 East China Normal University Master in College Physics Education
Employment	1989-1992 University of Shanghai for Science and Technology Teaching Assistant 2002-2005 University of Shanghai for Science and Technology Lecturer of Physics College 2005- University of Shanghai for Science and Technology Senior Lecturer of Physics College
Research and development projects over the last 5 years	<ul style="list-style-type: none"> • The Key Course Program on Function of Real Variable. Period: 2009-2010. Partner: College of Science, UNIVERSITY OF SHANGHAI FOR SCIENCE AND TECHNOLOGY. Funding: 3,000 RMB • The Key Course Program on Probability Theory & Mathematical Statistics (as participant). Period: 2008-2009. Partner: Shanghai Education Commission. Funding: 50,000 RMB (Government's project)
Industry collaborations over the last 5 years	The Software Development of Flow Design for Steam Turbine. Period: 2012. Partner: Shanghai Electric Power Generation Equipment CO.,LTD
Patents and proprietary rights	A Manufacturing Method of Coated Fiber Grating Gas Sensor Based on Dual Peak Resonance. Patent code: ZL 2007 10037525.2 (2010)
Important publications	<ul style="list-style-type: none"> • First-principle Study on the Optical Properties of Cr-doped Anatase TiO₂. Journal Of Synthetic Crystals, Vol.40, No.3, pp.258-262 (2011) • College Physics Synchronous Tutorship Review and Self-testing. China Machine Press, ISBN 978-7-111-27987-7 (2009)
Activity in professional associations within the last five years	Member of Shanghai Mathematics Association

Name	Feng Lin, Zhu
Post	Professor of Mathematics and Physics College
Academic career	1982-1986 Jinzhou Normal University Bachelor in Mathematics 1988-1991 Qinghai Normal University Master in Mathematics 2000-2003 University of Science and Technology of China
Employment	1986-1988 The Second Normal School of Chaoyang Teaching Assistant 1991-2000 Jinzhou Normal University Lecturer/associate professor 2003- Shanghai University of Electric Power Associate/Professor of Mathematics and Physics College
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ●Linear algebra MOOC ●On line and off line mixed teaching of linear algebra
Industry collaborations over the last 5 years	
Patents and proprietary rights	
Important publications	●Linear algebra Higher Education Press 2018
Activity in professional associations within the last five years	

Name	Xi, Wang
Post	associate professor
Academic career	1981-1985 NorthEast China Normal University, Bachelor in Mathematics 1985-1987 Jilin Industry University, postgraduate 1996-2000 Tongji University, Master of Business Administration
Employment	1987-1989 Jilin Industry University, Teaching Assistant 1989-1996 Liaoning Industry University, Lecturer of Mathematics 2001- Shanghai University of Electric Power, Associate professor
Research and development projects over the last 5 years	
Industry collaborations over the last 5 years	
Patents and proprietary rights	
Important publications	<ul style="list-style-type: none"> ● Linear Algebra . Higher Education Press, ISBN 978-7-04-050140 (2018) ●Analysis of competitive power system of enterprise population with stage structure. Scientific and technological progress and countermeasures, Vol.28, No.8, pp.133-135 (2011)
Activity in professional associations within the last five years	

Name	Bei Bei, Wu
Post	Associate professor
Academic career	1996-2000 Huaibei Normal University Bachelor in Mathematics Education 2000-2003 Hefei University of Technology Master in Mathematics 2003-2006 Shanghai University Doctor in Mathematics
Employment	2006- University of Shanghai for Science and Technology
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ●undertaking the transverse project: Surface modification technology. Period: 2018. 03 – 2018.06. ●Participating in the National Natural Science Foundation of China (Numerical Research on Unsteady Vortex Wake Evolution and Relevant Aerodynamic Characteristics of Helicopter Rotor, No. 11502141; Period:2016.01-2018.12. ●undertaking the transverse project: muscular blood vessel bio-nonlinear mathematical model solution problem. Period: 2012.05-2012.09.
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications	<ul style="list-style-type: none"> ●Beibei Wu, Explicit Formulas for the Exponentials of Some Special matrices, Applied Mathematics Letters, 24: 642-647, 2011. ●A New Rational Cubic Trigonometric Bézier Curve with Four Shape Parameters, Journal of Information and Computational Science, 12(18): 7023-7029, 2015. ●Cubic trigonometric B-spline collocation method for Black-Scholes model. Journal of Sichuan University (Natural Science Edition), 54(6): 1153-1158, 2017. ●Hybrid Cubic B-spline Collocation Method for Solving Convection-Diffusion Equation, Computer Engineering and Applications, 54(24):41-45, 2018.
Activity in professional associations within the last five years	None

Name	Kai Jun, Zhang
Post	Lecturer
Academic career	Numerical algebra
Employment	Worked in Shanghai University of Electric Power since 2003
Research and development projects over the last 5 years	No
Industry collaborations over the last 5 years	No
Patents and proprietary rights	No
Important publications	No
Activity in professional associations within the last five years	No

Automation Engineering

Name	Chuan Lin, Zhang
Post	Professor
Academic career	<p>03/2010- 03/2014 School of Automation, Southeast University, P. R. China, Ph.D.</p> <p>09/2011-09/2012 Department of Electrical and Computer Engineering, University of Texas at San Antonio, USA. Visiting PhD student.</p> <p>09/2008-02/2010 School of Automation, Southeast University, P. R. China, M.E .</p> <p>09/2004-07/2008 Department of Mathematics, Southeast University, P. R. China, B.S.</p>
Employment	<p>01/2018-now College of Automation Engineering, Shanghai University of Electric Power, Professor.</p> <p>02/2017-02/2018 Advanced Robotics Center, National University of Singapore, postdoc.</p> <p>02/2016-02/2017 Energy Research Institute, Nanyang Technological University, postdoc.</p> <p>08/2014-01/2018 College of Automation Engineering, Shanghai University of Electric Power, lecturer.</p>
Research and development projects over the last 5 years	<p>01/2019-12/2022 Eastern Scholar Program for Specialized Professor Fund, (RMB 2 million) , PI.</p> <p>05/2019-04/2021 Natural Science foundation of Shanghai, “Research on nonlinear Control technology for DC micorgrids towards large signal stability. (RMB 200000) . PI.</p> <p>01/2016-12/2018 National natural science foundation of China: “Research on homogeneous control theory and application for nonlinear uncertain systems”, (RMB 210000, NO. 61503236). PI.</p> <p>12/2015-12/2018 “Chenguang” Talent Plan by Shanghai Municipal Education Commission: “Disturbance attenuation control research on the power electronics converter systems”. (RMB 60000, NO.15CG56). PI.</p> <p>01/2015-12/2017 Leading Talent Program of Shanghai, Sailing Program of Shanghai Science and Technology Commission: “Research on advanced control algorithms on DC-DC power converters in renewable energy applications”. (RMB 100000, NO. 15YF1404500), PI.</p>
Industry collaborations over the last 5 years	N/A
Patents and	N/A

proprietary rights	
Important publications	<p>Zhang C, Yang J*, Fridman L, Yan Y, Li S. Semi-Global Finite-Time Trajectory Tracking Realization for Disturbed Nonlinear Systems via Higher-Order Sliding Modes. IEEE Transactions on Automatic Control, DOI=10.1109/TAC.2019.2937853, in press, 2019.</p> <p>Zhang C, Yan Y, Yu H*. Global dynamic non-recursive realization of decentralized nonsmooth exact tracking for large-scale interconnected nonlinear systems. IEEE Transactions on Cybernetics, 2019, 49(9): 3521-3531.</p> <p>Zhang C, Wang J, Li S*, Wu B, Qian C. Robust control for PWM-based DC–DC buck power converters with uncertainty via sampled-data output feedback. IEEE Transactions on Power Electronics, 2015, 30(1): 504-515.</p> <p>Zhang C, Wang X, Lin P, Peter X Liu*, Yan Y, Yang J. Finite-Time Feedforward Decoupling and Precise Decentralized Control for DC Microgrids Towards Large Signal Stability. IEEE Transactions on Smart Grid, 2020, 11(1):391-402.</p> <p>Zhang C, Yan Y, Wen C, Yang J, Yu H*. A Nonsmooth Composite Control Design Framework for Nonlinear Systems with Mismatched Disturbances: Algorithms and Experimental Tests. IEEE Transactions on Industrial Electronics, 2018, 65(11): 8828-8839. (IF=7.503).</p> <p>Zhang C, Yan Y, Ashwin Narayan, Yu H*. Practically Oriented Finite-Time Control Design and Implementation: Application to Series Elastic Actuator. IEEE Transactions on Industrial Electronics, 2018, 65(5):4166-4176 (IF=7.503).</p>
Activity in professional associations within the last five years	<p>IEEE Senior Member</p> <p>Member of Shanghai Automation Association</p>

Name	Dong Liang, Zhang
Post	associate professor of Automation College
Academic career	1996-2000 Jinan University Bachelor in Computer Science 2000-2003 Jinan University Master in College Control Theory and Control Engineering 2005-2009 Tongji University PhD in College Electronic and Information Engineering 2010-2011 Tongji University Postdoctor College Electronic and Information Engineering
Employment	2003-2005 Shandong Luneng Control Engineering Co., Ltd Software Engineer 2011 - Shanghai University of Electric Power
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ●Study on transient model and mechanism of large scale network flow. Period: 2015-2017. Partner: College of Science, Shanghai Natural Science Foundation. Funding: 200,000 RMB (Government's project)
Industry collaborations over the last 5 years	<ul style="list-style-type: none"> ●Development of the upper software of ETS real-time monitoring and early warning system. Period: 2018. Partner: Shandong Hexin Intelligent Technology Co., Ltd ●Reliability analysis system of Pingdingshan thermal power nucon system operation reliability analysis project. Period: 2020. Partner: National Nuclear Automation System Engineering Co., Ltd
Patents and proprietary rights	A k-nearest neighbor search method for variable weight networks. Patent code: ZL 201210230161.0 (2017)
Important publications	<ul style="list-style-type: none"> ●Turbine Fault Diagnosis Based on Variable Mode Decomposition and Improved Fuzzy Support Vector Machin. Journal of Jinan University, Vol.33, No.2, pp.142-149 (2019) ●Optimization of VMD Parameters and Its Application in Bearing Fault Feature Extraction. Journal of Beijing University of Technology, Vol.39, No.8, pp.846-851 (2019)
Activity in professional associations within the last five years	Member of Shanghai Electronic and Electrical Technology Association

College of Economic and Management

Name	Rong, Qing
Post	Associate Professor
Academic career	1988-1990, Huazhong University of Science and Technology. Technical Economics 1997-2000, Wuhan University of Technology. Master in Industrial Economics 2007-2008, Huazhong University of Science and Technology. Visiting Scholar
Employment	1990-1994 Wuhan New World Refrigeration Co., Ltd. Process Engineer 1994-1997 Hubei Institute of Water Resources and Hydropower Research. Technical Engineer 2000- School of Economics and Management, Shanghai University of Electric Power. Associate Professor & Master Instructor
Research and development projects over the last 5 years	Research on the Effectiveness of Resolutions of Shareholders' Meetings. Period: 2012-2015. Research on Optimal Construction of Coal-electricity Combined Transport Channel Network for Smart Grid Construction. Period: 2013-2015. Comparative analysis of the top 50 manufacturing and service industries in Shanghai. Period:2012-2017. Research on Shanghai Offshore Wind Power Innovation Mechanism. Period:2018. Report of Power Frontier Technology Analysis. Period:2019.
Industry collaborations over the last 5 years	1. State Grid Shanghai Electric Power Company 2. Zhonglian Group Technology Co., Ltd. 3. Shanghai Jianke Engineering Consulting Co., Ltd.
Patents and proprietary rights	
Important publications	
Activity in professional associations within the last five years	1. Trainer of Shanghai Continuing Engineering Education Association 2. Evaluation Expert of Shanghai Electric Power Engineering Industry Association 3. Special Expert of CEC Credit Power 4. Advanced Teacher of Shanghai New Changning Vocational Skills Training Center

	5. Trainer at Shanghai Lingang Caohejing Talent Co., Ltd.
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Name	Ai, Guo
Post	Lecturer
Academic career	2007-2011 Hengyang Normal University Bachelor in Science 2011-2013 Shanghai Normal University Master in psychology
Employment	2013-2019 Shanghai University of power electric Teaching Secretary Shanghai University of power electric Lecturer
Research and development projects over the last 5 years	
Industry collaborations over the last 5 years	
Patents and proprietary rights	
Important publications	
Activity in professional associations within the last five years	

Name	Yun Huan, Wang
Post	Lecturer of Ideological and Political Education
Academic career	2001.9-2005.6 Shanghai University of Electric Power Bachelor in Thermal and Power Engineering 2007.9-2012.1 Tongji University Master in Software Engineering
Employment	2005.7-2011.9 Shanghai University of Electric Power Teaching Assistant 2011.10- Shanghai University of Electric Power Lecturer of Ideological and Political Education
Research and development projects over the last 5 years	Research on the Mechanism of Integrating Ideological and Political Education into College Students' Career Education under the Background of "Three-wide Education" Belongs to the Research Project of Moral Education Practice of Schools in Shanghai ,2020 Principal Investigator Research on Basic Ways and Methods of Promoting the Standardization Construction of Student Party Branches of the CPC in the Colleges and Universities Belongs to the Research Project of Party Building of the CPC in Shanghai Education and Health Party Committee System ,2018 Secondary Co-Author Research on the Mechanism of Integrating Ideological and Political Education into the Course of College Students' Career Development and Planning Belongs to the Educational Reform Project of Courses for Ideological and Political Education of Shanghai University of Electric Power,2018 Principal Investigator
Industry collaborations over the last 5 years	Shanghai University of Electric Power-Energy and Power human Resources -The third power plant of Shanghai waigaoqiao
Patents and proprietary rights	None
Important publications	None
Activity in professional associations within the last five years	None

Teachers for Professional Courses

College of Energy and Mechanical Engineering

Name	Wei Guo, Pan
Post	Professor of School of Energy & Mechanical Engineering
Academic career	1984-1987 Shanghai Institute of Electric Power Graduated in Thermal Power Engineering in Power Plant 1991-1994 Zhejiang University Master in Engineering Thermo-physics 1994-1997 Zhejiang University Doctor in Engineering Thermo-physics
Employment	1987-1991 Shanghai Institute of Electric Power Assistant Engineer 1995-1998 Shanghai Institute of Electric Power Lecturer 1998-2000 Shanghai Institute of Electric Power Assistant Professor Shanghai University of Electric Power Professor
Research and development projects over the last 5 years	<ul style="list-style-type: none">● Research and Application of Key Technologies for New High-Efficiency Micro Gas Turbine System.Period: 2019-2022. Partner: Science and Technology Commission of Shanghai Municipality. Funding: 800,000 RMB● Study on synergistic denitrification technology of ultra-low emission wet desulfurization of coal-fired flue gas). Period: 2018-2021. Partner: Science and Technology Commission of Shanghai Municipality. Funding: 1,000,000 RMB●Low Cost Ultra-Low Emission Control Technology and Scale Equipment for Coal-fired Power Station.Period:2017-2020. Partner: Ministry of Science and Technology. Funding:270,000RMB et al.
Industry collaborations over the last 5 years	<ul style="list-style-type: none">●Development of High Efficiency Micro Gas Turbine Device of 100 kW capacity. Period: 2019-2020. Partner: Shanghai Chenghang Turbine Technology Co., Ltd.●Model Experiment for SCR De-NOx System. Period:2019-2020. Partner:Shanghai Minghua Electric Power Science & Technology Co, Ltd.●Research on Key Technologies of Semi-dry Flue Gas Desulfurization. Period:2018-2019. Partner:Shanghai Electric Power Station Environmental Protection Engineering Co., Ltd.

	et al.
Patents and proprietary rights	<ul style="list-style-type: none"> ● A Wide Temperature Window De-NO_x Catalyst and Manufacturing Method . Patent code: ZL 201410279646.8 (2017) ● A Wet Flue Gas Desulfurization De-SO_x Sinergist and Manufacturing Method. Patent Code: ZL201310240482.3 (2015) et al.
Important publications	<ul style="list-style-type: none"> ● Mechanistic Investigation of the Promotion Effect of Bi Modification on the NH₃-SCR Performance of Ce/TiO₂ Catalyst. J.Phys.Chem., 121:27535-27545 (2017) ● A Highly Effective MnNdO_x Catalyst for the Selective Catalytic Reduction of NO_x with NH₃. Ind.Eng.Chem.Res. , 56: 12566-12577 (2017) ● The promotion effect of Sb on the Naresistance of Mn/TiO₂ catalyst for selective catalytic reduction of NO with NH₃. Fuel,169:87-92. (2016) et al.
Activity in professional associations within the last five years	Director of China Society of Power Engineering Director of China Society of High Education Enigneering Thermo-physics

Name	Fei, Wang
Post	Lecturer
Academic career	2003-2007 Jiangsu University Machinery Design, Manufacturing and Automation 2007-2010 Jiangsu University Master in Machinery Manufacturing and Automation 2010-2013 Jiangsu University Doctor in Machinery Manufacturing and Automation
Employment	2013- Shanghai University of Electric Power College of Energy and Mechanical Engineering Lecturer
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ● Research on Key Problems of Floating Manufacture of Cylindrical Deep-sea Drilling and Oil Storage Platform. Period: 2014-2017. Talent Start-up Project of Shanghai Electric Power University. Funding: 30,000 RMB ● Research on Floating Manufacturing Method of Double Bottom Structure of Cylindrical Deep-sea Oil Drilling Platform. Period: 2015-2018. Partner: Shanghai Education Commission. Funding: 50,000 RMB (Government's project)
Industry collaborations over the last 5 years	Nothing
Patents and proprietary rights	<ul style="list-style-type: none"> ● Adjustment Method of Sublevel Prefabrication Force of Cylindrical Deep-sea Drilling and Oil Storage Platform. Patent code: ZL 2012 10131117.4 (2014) ● Optical fiber laser underwater real-time cleaning surface fouling and detection device. Patent code: ZL 2012 10202175.1 (2014)
Important publications	<ul style="list-style-type: none"> ● Floating non-traditional manufacture of floating drilling storage and offloading units-study on modeling and optimization method for the underwater rotating technology. Marine Structures, Vol.31, pp.15-23 (2013) ● Real time NDE of laser shock Processing with time -of-flight of laser induced Plasma shock wave in air by acoustice emission sensor. Applied acoustics, Vol.71, pp.739-742 (2010)
Activity in professional associations within the last five years	Member of Shanghai Society of Engineering Graphics

Name	Rui, Duan
Post	Senior Lecturer of College of Energy and Mechanical Engineering
Academic career	1997-2001 Shanghai Fisheries University Bachelor in Refrigeration Engineering 2004-2007 University of Shanghai for Science and Technology Master in Engineering thermophysics 2011-2018 University of Shanghai for Science and Technology Doctor in Engineering thermophysics
Employment	2001-2007 Shanghai University of Electric Power Teaching Assistant of College of Energy and Mechanical Engineering 2007- Shanghai University of Electric Power Senior Lecturer of College of Energy and Mechanical Engineering
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ● The General Course Program “Refrigeration Principle and Equipment”. Period: 2016-2017. Partner: Shanghai University of Electric Power. Funding: 3,000 RMB ● National Natural Science Foundation of China Project (as participant) “Mechanism Study of Thermal Radiation Characteristics of Mie Resonant Dielectric Particle Super material”. Period: 2016-2019. Partner: National Natural Science Fund Committee. Funding: 650,000 RMB (Government's project)
Industry collaborations over the last 5 years	No
Patents and proprietary rights	Portable mud water purifier. Patent code: ZL 2015 10167906.7 (2015)
Important publications	No
Activity in professional associations within the last five years	No

Name	Zhen Zhen, Guan
Post	Lecturer of College of Energy and Mechanical Engineering
Academic career	2002-2006 Zhejiang University of Technology Bachelor in Environmental Engineering 2006-2009 Tongji University Master in Environmental Engineering 2009-2013 Tongji University PhD in Thermal Engineering
Employment	2014- Shanghai University of Electric Power Lecturer of College of Energy and Mechanical Engineering
Research and development projects over the last 5 years	<ul style="list-style-type: none"> • Shanghai College Young Teacher Training Program (Grant No. ZZsd115073). Period: 2015-2017. Partner: Shanghai Municipal Education Commission. Funding: 50,000 RMB
Industry collaborations over the last 5 years	<ul style="list-style-type: none"> • Research on the Effect of Synergy Innovation Development of Energy Internet Alliance. Period: 2016. Partner: Shanghai Ouyi Intelligent Network Co., Ltd. Funding: 15,000 RMB
Patents and proprietary rights	<ul style="list-style-type: none"> • A Anti-blocking and Efficiency Improvement System for SCR. Patent code: CN201821087264.5 (2019)
Important publications	<ul style="list-style-type: none"> • Improved NO removal from Flue Gas by Hydrazine and Its Mechanism Analysis. Journal of Chemical Technology and Biotechnology, Vol.94, No.10, pp. 3263-3268 (2019) • NO_x Removal by Non-thermal Plasma at Low Temperatures with Amino Groups Additives. Korean Journal of Chemical Engineering, Vol.33, No.11, pp. 3102–3108 (2016) • Influences of Ammonia Contamination on Leaching from Air-pollution-control Residues. Waste Management & Research, Vol.32, No.12, pp. 1169-1177 (2014)
Activity in professional associations within the last five years	None

Name	Lan, Cao
Post	Senior Lecturer of Physics College
Academic career	2002/09-2006/07 B. A., Electronic Information Technology and Science, Chongqing University 2006/09-2009/07 M. A., condensed matter physic, Chongqing University 2009/09 – 2013/07 Ph.D., Microelectronics and Solid State Physics, Shanghai Institute of Technical Physics
Employment	2013-Shanghai University of Electric Power Lecturer of College of Energy and Mechanical Engineering
Research and development projects over the last 5 years	●. Fault tree generation logic demonstration software Period: 2018-2018 Funding: 100,000 RMB
Industry collaborations over the last 5 years	无
Patents and proprietary rights	(1) A Small Smart Parking System. Patent code: ZL201721584626.7
Important publications	[1] Cao lan, Wen jian-ying, Zhao hua,etc. Band structure and long-range correlation energy calculation of poly (para-phenylene-vinylene). Journal of atomic and molecular physics, 2009, 26(6): 15-18. [2] Cao lan, Zhu Xian-liang, Zhang Hai-yan,etc. An automatic measuring system for the lifet,ime testing of Infrared Detectors, Proc. of SPIE, 2012, 8419(EI). [3]Cao lan, Gong Hai-Mei. Design of automate protecting System for infrared component reliable test [J].Infrared and laser engineering,2015,44(S1):13-16. [4] Cao lan, Deng Ruo-Han, Gong Hai-Mei. Automated vacuum system for lifetime test of IR detectors [J]. Infrared and laser engineering,2015,44(06):1712-1715.
Activity in professional associations within the last five years	

Name	Zhuo Xiong, Zeng
Post	Professor of College of Energy and Mechanical Engineering
Academic career	1991-1995 Northwestern Polytechnical University Bachelor in Aircraft Power Engineering 1995-1998 Northwestern Polytechnical University Master in Rocket Engine 1998-2001 Xi'an Jiaotong University Doctor in Power Engineering and Engineering Thermophysics
Employment	2002-2004 Nanchang Hangkong University Associate Professor of Department of Mechanical Engineering 2004-2014 Nanchang Hangkong University Professor of Aeronautic and Mechanical Engineering College Shanghai University of Electric Power Professor of College of Energy and Mechanical Engineering
Research and development projects over the last 5 years	<ul style="list-style-type: none"> • Research on NO_x Prediction based on Artificial Intelligence Algorithm. Period: 2018-2020. Chief investigator: Ministry of Science and Technology of the People's Republic of China. Funding: 350,000 RMB (Government's project)
Industry collaborations over the last 5 years	/
Patents and proprietary rights	A Trapped Vortex Combustor with Turbulator. Patent code: 201821609582.3
Important publications	<ul style="list-style-type: none"> • Combustion Flow in Different Advanced Vortex Combustors with/without Vortex Generator. Aerospace Science and Technology, Vol. 86, pp. 640–649 (2019) • Analysis of Cooling Performance and Combustion Flow in Advanced Vortex Combustor with Guide Vane. Aerospace Science and Technology, Vol. 72, pp. 542-552(2018)
Activity in professional associations within the last five years	<ul style="list-style-type: none"> • Editorial member of 《Journal of Hydrodynamics》

Name	Cheng, Peng
Post	Lecturer of College of Energy and Mechanical Engineering
Academic career	2009-2013 Chongqing University Bachelor in Nuclear Engineering and Technology 2013-2018 Shanghai Jiao Tong University Doctor in Nuclear Science and Technology
Employment	No.
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ● Evaluation and assessment on resuspension and re-entrainment models of aerosol. Period: 2019. Funding: 112800 RMB ● Development and validation on hydrogen distribution model in containment. Period:2019. Funding: 95000RMB.
Industry collaborations over the last 5 years	The validation analysis on aerosol and hydrogen activities. Period: 2019. Partner: Shanghai Jiao Tong University.
Patents and proprietary rights	No.
Important publications	No.
Activity in professional associations within the last five years	No.

Name	De Zhao, Qin
Post	Lecturer of Energy and Mechanical Engineering College
Academic career	2004-2008 China University of Mining and Technology Bachelor in Material Science and Engineering 2008-2011 Chongqing University Master in Material Processing Engineering 2011-2015 Chongqing University Doctor in Material Science and Engineering
Employment	2016- Shanghai University of Electric Power Lecturer of Energy and Mechanical Engineering College
Research and development projects over the last 5 years	
Industry collaborations over the last 5 years	
Patents and proprietary rights	High Damping Mg-Zn-Y Alloy and Its Preparation Technology. Patent code: ZL201410376527.4 (2016) A High Strength Mg-Y-Ni-Mn Alloy and Its Preparation Method. Patent code: ZL201511014976.5 (2017) A High Damping Mg-Mn-Ce-Al-Zn-Y Magnesium Alloy and Its Preparation Method. Patent code: ZL201610020159.9 (2017)
Important publications	<ul style="list-style-type: none"> ●Effects of Heat Treatment on the Morphology of Long-Period Stacking Ordered Phase and the Corresponding Damping Capacities of Mg-Cu-Mn-Zn-Y Alloys, Materials Transactions, 2015,56:2042-2046. ●Effects of heat treatment on the morphology of long-period stacking ordered phase, the corresponding damping capacities and mechanical properties of Mg-Zn-Y alloys, Journal of Alloys and Compounds, 2015,639:541-546. ●Mechanical properties and internal friction of Mg-Zn-Y alloys with a long-period stacking ordered structure at different Y/Zn atomic ratios, Journal of Materials Research, 2015,30: 3354-3362.
Activity in professional associations within the last five years	

Name	Pu yan, Zheng
Post	Associate professor of College of Energy and Mechanical Engineering
Academic career	1990-1994 Xi'an Jiaotong University Bachelor in Thermal Power Engineering of Power Plant 1994-1997 Xi'an Jiaotong University Master in Thermal Engineering 1999-2003 Southeast University Doctor in Thermal Engineering
Employment	1997-1998 Shanghai University of Electric Power Teaching Assistant 1998-2006 Shanghai University of Electric Power Lecturer of Department of Energy 2006- Shanghai University of Electric Power Associate professor of College of Energy and Mechanical Engineering
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ● Research on Thermal Power Flexibility Transformation and Adaptation to Power Market Conditions. Period: 2019. Partner: Electric Power Research Institute of State Grid Gansu Electric Power Company. ● Research on Collaborative Optimization Design Technology of Distributed Energy System with Multiple Energy and Multiple Storage Coupling. Period: 2017-2018. Partner: Smart Grid Industry-university-research Cooperation Development Center. ● Research on the Talent Training Mode and Scheme of the Through-type Personnel Training Mode of Secondary vocational education - Applied Undergraduate Education for Energy and Power Majors Relying on the Power Generation Industry. Period: 2016-2018. Partner: College energy and power professional teaching guidance association of the Ministry of Education of the People's Republic of China. (Government's project) ● Research on the phases upgrade mechanism of the Through-type Personnel Training Mode of Secondary vocational education - Applied Undergraduate Education for Energy and Power Major. Period: 2018. Partner: Shanghai Electric Power Industry School. ● Compilation of Curriculum Standards in the Secondary vocational Phases of the Through-type Personnel Training Mode of Secondary vocational education - Applied Undergraduate Education for Energy and Power Major. Period: 2018. Partner: Shanghai Electric Power Industry School.

<p>Industry collaborations over the last 5 years</p>	<ul style="list-style-type: none"> ● Research on Thermal Power Flexibility Transformation and Adaptation to Power Market Conditions. Period: 2019. Partner: Electric Power Research Institute of State Grid Gansu Electric Power Company ● Research on Design Scheme of Distributed Energy Supply system. Period: 2017-2018. Partner: Shanghai Pengken Energy Technology CO., LTD ● Demonstration Research on Intelligent Energy Control Platform of Lingang Heavy Equipment Industrial Park. Period: 2012-2015. Partner: Shanghai Electric Lingang Heavy Machinery Equipment CO. LTD
<p>Patents and proprietary rights</p>	<ul style="list-style-type: none"> ● A Method for Determining Vacuum State of Condenser Based on K-M Model. Patent code: ZL 201510697599.3 (2018) ● A Two-stage Peak Shaving Method for CCHP. Patent code: ZL 201710207127.4 (2018) ● A Selection Method of Gas Turbine for CCHP. Patent code: ZL 201710207125.5 (2018)
<p>Important publications</p>	<ul style="list-style-type: none"> ● Engineering Design of Thermal Power Plants. China Electric Power Press, ISBN 978-7-5198-2456-3 (2018) ● Optimization on Flue Gas Waste Heat Recovery Scheme in Utility Boiler. Thermal Power Generation, Vols.46, No.7, pp.5-11 (2017) ● Research of Two Levels of Peak Plan for Combined Cold Heat and Power System. Journal Of Shanghai University of Electric Power, Vols.33, No.5, pp.425-429 (2017) ● Synchronous Optimization of Regenerative and Reheating Parameters for Double Reheat Ultra-supercritical Unit. Turbine Technology, Vols.60, No.2, pp.99-102 (2018) ● Study on Waste Heat Utilization Scheme of Boiler Flue Gas of Secondary Reheat Unit. Journal of Engineering for Thermal Energy and Power, Vols.35, No.222, pp.9-14 (2019)
<p>Activity in professional associations within the last five years</p>	<p>Member of the Committee of Shanghai University of Electric Power of China Democratic League</p>

Name	Min, Li
Post	Lecturer
Academic career	2001-2005 Central South University bachelor in Materials Science and Engineering, 2001-2008 Central South University Master in Materials Science and Engineering, 2008-2013 Shanghai Jiao Tong University Doctor materials science and engineering
Employment	2013- University of Shanghai for Science and Technology Lecturer of College of Energy and Mechanical Engineering
Research and Development projects Over the last 5 years	Study on the mechanism of in situ synthesis strengthen phase by laser cladding. Period: 2014-2017. Partner: University of Shanghai for Science and Technology. Funding: 30,000 RMB Study on the mechanism of in situ synthesis nano-strengthen phase by laser cladding. Period: 2015-2018. Partner: Shanghai Education Commission. Funding: 50,000 RMB
Industry Collaborations over The last 5 years	Automotive oxygen sensor high-temperature brazing technology research and development.Period:2018 Partner: suzhou hesu sensor technology co., LTD., 300,000 RMB Welding production optimization Period:2019-2020 Partner: jiangsu daqo box variable technology co., LTD
Patents and Proprietary rights	The utility model relates to a six-temperature multi-function mechanical climbing pick. Patent code: ZL 201510259329.4
Important Publications	Experimental Study of the Diffusion Process of Pulsed—GMAW Plasma with Optical Emission Spectrometry.Spectroscopy and Spectral Analysis. Vol.37, No.2, pp: 527-531.2017 Investigation of Plasma and Metal Transfer Dynamic Behavior During Fiber Laser GMAW G -P Hybrid Welding.Chinese Journal of Lasers, Vol.44, No.4, 2017.
Activity in professional associations within the last five years	

Name	Xiao Jing, Liu
Post	Senior Lecturer of Energy and Mechanical Engineering College
Academic career	2000-2004 Northeast Electric Power University Bachelor in Thermal and Power Engineering 2004-2007 Guangxi University Master in power machinery and Engineering 2008-2012 Tongji University Doctor in thermal Engineering
Employment	2012-2014 Research of Institute metrology and measurement techniques Intermediate engineer 2014- Shanghai University of Electric Power Senior Lecturer of Energy and Mechanical Engineering College
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ●Research on technology of 600MW Supercritical Boiler. Period: 2015-2017. Funding: 50,000 RMB (Shanghai Education committee 's project) ●Choice of Flow Calibration Point on Medium-pressure Natural Gas Virtual Flow Calibration. Period: 2014-2017. Funding: 30,000 RMB (University 's project)
Industry collaborations over the last 5 years	Total oil consumption control and policy research. Period: 2019-2020. Partner: Shanghai Society of Transportation Engineering Research and demonstration application of smart energy system integration technology for typical scenes of beautiful countryside Period: 2019-2022. Partner: State Grid Shanghai Municipal Electric Power Company
Patents and proprietary rights	High Efficient Utilization System of Pressure and cold energy recovery in Gas Pipe Network. Patent code: CN201510291787.6
Important publications	<ul style="list-style-type: none"> ●Intelligent Electric Grid- Baymax of power intelligence interconnection, The publishing house of popular science in shanghai, 2018-01 ●Smart grid is the ubiquitous power grid, The publishing house of popular science in shanghai, 2019-08
Activity in professional associations within the last five years	

Name	Bin Xia, Yuan
Post	Senior Lecturer of Physics College
Academic career	2004.09-2008.06 East China University of Science and Technology, Bachelor in Metallic Materials Engineering 2008.09-2013.06 East China University of Science and Technology, Doctor in Power Engineering and Engineering Thermal Physics
Employment	2013-Shanghai University of Electric Power Lecturer of College of Energy and Mechanical Engineering
Research and development projects over the last 5 years	●Controllable synthesis of copper oxide photoelectric materials. Period: 2005-2006. Funding: 80,000 RMB
Industry collaborations over the last 5 years	无
Patents and proprietary rights	(1) Method for preparing Cu ₂ O photoelectric material with flowerlike structure. Patent code: 201610086902:A (2017) (2) Even seat. Patent code: ZL201420758498.3 (3) A kind of multi-functional lifting computer desk. Patent code: ZL201520531341.1 (4) A home electric heat recycling system. Patent code: ZL201520530855.5 (5) A lazy man back rubs. Patent code: ZL201520517359.6
Important publications	(1) Binxia Yuan, Xiaobo Liu, Honghong Fu, Jianfeng Liu, Qunzhi Zhu, Maoliang Wu. One-step synthesis of flower-like Cu ₂ O photoelectric materials by hydrothermal method. Solar Energy, 2019, 188:265–270 (2) Binxia Yuan, Xiaobo Liu, Jianfeng Liu, Min Li, Daolei Wang. Synthesis of different morphologies CuO nanocrystalline under room temperature. Materials Letters, 2019, 236: 495-497 (3) Binxia Yuan, Yangchun Xia, Min Li, Qunzhi Zhu. Synthesis of ZnO nanomaterials with different morphologies by hydrothermal method. International Journal of Materials Research, 2018, 109: 910-915
Activity in professional associations within the last five years	

Name	Qing Wei, Li
Post	Lecturer
Academic career	2010-2016, graduated from Southeast University with a PhD; 2006-2010, graduated from Southeast University with a bachelor's degree.
Employment	2017-present, Shanghai University of Electric Power
Research and development projects over the last 5 years	In recent years, he has presided over 1 project of Shanghai yangfan program, 1 project of Shanghai youth teacher training subsidy program, and participated in 1 project of national key research and development program of ministry of science and technology, 1 project of national natural science foundation, 1 project of doctoral program fund of ministry of education and 1 project of Shanghai natural science foundation as the backbone teacher
Industry collaborations over the last 5 years	no
Patents and proprietary rights	no
Important publications	no
Activity in professional associations within the last five years	no

Name	Mao Liang, Wu
Post	Associate Professor of Mechanical Engineering
Academic career	1989-1993 Shandong University of Science and Technology Bachelor in Mechanical Engineering 1995-1998 Xi'an Jiaotong University Master in Mechanical Engineering 1998-2002 Xi'an Jiaotong University Ph.D in Mechanical Engineering
Employment	1993-1995 Xi'an Coal Mining Machinery Co. Ltd. Assistant Engineer 2002-2005 Shanghai University Post Doctor Researcher 2005- Shanghai University of Electric Power Associate Professor of School of Energy and Mechanical Engineering
Research and development projects over the last 5 years	
Industry collaborations over the last 5 years	Improvement and Upgrade of Rotary Blocking Remover. Period: 2019. Partner: Jiangsu Qianyuan Feida Power Equipment Co., Ltd.
Patents and proprietary rights	A Manufacturing Method of Coated Fiber Grating Gas Sensor Based on Dual Peak Resonance. Patent code: ZL 2007 10037525.2 (2010)
Important publications	<ul style="list-style-type: none"> ● Effects of Rotating Magnetic Fields on PEM Fuel Cell Performance. Journal Of Electrochemistry, Vol.24 No.2, pp.189-193 (2018) ●Effect of magnetic field on the performance of PEMFC at different temperatures.Journal of power sources, Vol.41 No.7 pp.996-997 (2017)
Activity in professional associations within the last five years	Member of Shanghai Mechanics Association

Name	Qiong, Wu
Post	Senior Engineer of Energy and Mechanical Engineering College
Academic career	2005-2009 Nanjing Normal University Bachelor in Electric power engineering 2010-2012 Kitakyushu university Master in Environmental engineering 2012-2015 Kitakyushu university Ph.D in Environmental engineering
Employment	2013-2015 Shanghai university of electric power Assistant engineer 2015-2018 Shanghai university of electric power Engineer 2019- Shanghai university of electric power Senior engineer
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ● The Natural Science Foundation of China. Period: 2019-2021, Funding: 175,000 RMB. Hierarchical modeling and game optimization of multi-integrated energy networks under market mechanism ●“Chenguang Program” supported by Shanghai Education Development Foundation and Shanghai Municipal Education Commission. Period: 2017-2020, Funding: 60,000 RMB. Benefit evaluation of integrated energy system ●The Key Fund of Shanghai Science Technology Committee. Period: 2017-2020, Funding: 200,000 RMB. Integration mechanism and collaborative optimization of CCHP-ORC system
Industry collaborations over the last 5 years	nothing
Patents and proprietary rights	nothing
Important publications	1. Qiong Wu, Hongbo Ren, Weijun Gao, Peifen Weng and Jianxing Ren, Coupling optimization of urban spatial structure and neighborhood-scale distributed energy systems, Energy, 144, 472-481, 2018

	<p>2. Qiong Wu, Hongbo Ren, Weijun Gao, Peifen Weng and Jianxing Ren, Design and operation optimization of organic Rankine cycle coupled trigeneration systems, Energy, 142, 666-677, 2018</p> <p>3. Qiong Wu, Hongbo Ren, Weijun Gao and Jianxing Ren, Benefit allocation for distributed energy network participants applying game theory based solutions, Energy, 119, 384-391, 2017</p> <p>4. Qiong Wu, Hongbo Ren, Weijun Gao, Jianxing Ren, Changshi Lao, Profit allocation analysis among the distributed energy network participants based on Game-theory, Energy, 118, 783-794, 2017</p> <p>5. Qiong Wu, Hongbo Ren, Weijun Gao and Jianxing Ren, Multi-objective optimization of a distributed energy network integrated with heating interchange, Energy, 109, 353-364, 2016</p> <p>6. Qiong Wu, Hongbo Ren, Weijun Gao and Jianxing Ren, Multi-criteria assessment of building combined heat and power systems located in different climate zones: Japan-China comparison, Energy 103, pp 502-512, 2016</p> <p>7. Qiong Wu, Hongbo Ren, Weijun Gao and Jianxing Ren, Modeling and optimization of distributed energy supply network with power and hot water interchanges, Applied Thermal Engineering 94, pp 635-643, 2016</p> <p>8. Qiong Wu, Hongbo Ren, Weijun Gao and Jianxing Ren, Multi-criteria assessment of combined cooling, heating and power systems located in different regions in Japan, Applied Thermal Engineering,73(1), 2014: 660-670.</p>
Activity in professional associations within the last five years	Paper reviewer of applied energy, energy and building, etc.

Name	Rui Tang, Guo
Post	Professor
Academic career	1998-2002 Zhejiang University Bachelor in Thermal Power Engineering 2002-2008 Zhejiang University Doctor in Thermophysics in Engineering
Employment	2008-2010 Shanghai University of Electric Power Lecturer of Thermal Power Engineering 2010-2014 Shanghai University of Electric Power Associate Professor of Thermal Power Engineering 2015- Shanghai University of Electric Power Professor of Thermal Power Engineering
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ●the National Key R&D Program of China. Period: 2018-2021. Partner: Ministry of Science and Technology. Funding: 500,000 RMB ●The National Natural Science Foundation of Shanghai. Period: 2014-2017. Partner: Shanghai Science and Technology Committee. Funding: 100, 000 RMB (Government's project)
Industry collaborations over the last 5 years	None
Patents and proprietary rights	A method for removal of NO _x from flue gas by using bleaching effluent . Patent code: ZL 201010152263.6 (2010)
Important publications	<ul style="list-style-type: none"> ●Z-Scheme MoS₂/g-C₃N₄ heterojunction for efficient visible light photocatalytic CO₂ reduction. Dalton Transactions, Vol.47, pp.15155-15163 (2018) ●Ball-flower like NiO/g-C₃N₄ heterojunction for efficient visible light photocatalytic CO₂ reduction. Applied Catalysis B :Environmental, Vol.237, pp.802-810 (2011) ●Noble-metal-free molybdenum phosphide co-catalyst loaded graphitic carbon nitride for efficient photocatalysis under simulated irradiation. Journal of Catalysis, Vol.30, pp.79-87 (2019)
Activity in professional associations within the last five years	None

Name	Fang Qin, Li
Post	Associate Professor of College of Energy and Mechanical Engineering
Academic career	1994-1998 Hebei Institute of Architectural Science and Technology Bachelor in Heating, Ventilation and Air Conditioning Engineering 1998-2001 Tongji University Master in Heating, Ventilation and Air Conditioning Engineering 2001-2004 Tongji University Ph.D. in Thermal Engineering
Employment	2004- Shanghai University of Electric Power Associate Professor of College of Energy and Mechanical Engineering
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ●Boiler Safety and Energy Saving Technology. Period: 2018-2018. Funding: 70,000 RMB. ●Boiler Energy Saving Technology and Application. Period: 2017-2017. Funding: 63,000 RMB. ●Technical Services of Boiler Energy-Saving Technology . Period: 2016-2016. Funding: 70,000 RMB.
Industry collaborations over the last 5 years	Research on Boiler Safety and Skills Technology. Period: 2016-2018. Partner: Shanghai Quality and Technical Supervision Bureau
Patents and proprietary rights	
Important publications	<ul style="list-style-type: none"> ●Boiler Energy Saving Technology, China Electric Power Press, 304,000 words, 2017 ●Preparation and CO₂ breakthrough adsorption of MIL-101(Cr)-D composites[J], J,Nanopart Res 2019,21:1-10 ●Mercury Removal Technology from Power Plant Flue Gas, Chemical Progress, 2017, 29 (12): 32-3 ●Study on Ammonia Combined Desulfurization and Carbon Removal in Coal-fired Power Plants, Thermal Power Generation, 2017,46(2): 49-54 ●Preparation of MIL-101 (Cr) with acetic acid as mineralizer and its adsorption properties for CO₂
Activity in professional associations within the last five years	

Name	Jian Quan, Liu
Post	Senior Lecturer of Physics College
Academic career	1981-1986 East China Normal University Bachelor in Physics 1986-1989 East China Normal University Master in College Physics Education
Employment	1989-1992 University of Shanghai for Science and Technology Teaching Assistant 2002-2005 University of Shanghai for Science and Technology Lecturer of Physics College 2005- University of Shanghai for Science and Technology Senior Lecturer of Physics College
Research and development projects over the last 5 years	<ul style="list-style-type: none"> • The Key Course Program on Function of Real Variable. Period: 2009-2010. Partner: College of Science, UNIVERSITY OF SHANGHAI FOR SCIENCE AND TECHNOLOGY. Funding: 3,000 RMB • The Key Course Program on Probability Theory & Mathematical Statistics (as participant). Period: 2008-2009. Partner: Shanghai Education Commission. Funding: 50,000 RMB (Government's project)
Industry collaborations over the last 5 years	The Software Development of Flow Design for Steam Turbine. Period: 2012. Partner: Shanghai Electric Power Generation Equipment CO.,LTD
Patents and proprietary rights	A Manufacturing Method of Coated Fiber Grating Gas Sensor Based on Dual Peak Resonance. Patent code: ZL 2007 10037525.2 (2010)
Important publications	<ul style="list-style-type: none"> • First-principle Study on the Optical Properties of Cr-doped Anatase TiO₂. Journal Of Synthetic Crystals, Vol.40, No.3, pp.258-262 (2011) • College Physics Synchronous Tutorship Review and Self-testing. China Machine Press, ISBN 978-7-111-27987-7 (2009)
Activity in professional associations within the last five years	Member of Shanghai Mathematics Association

Name	Ying Hui, Liu
Post	Lecturer
Academic career	2002-2006 Northeast Petroleum University Bachelor of Engineering Mechanic 2006-2009 Northeast Petroleum University Master of Engineering Mechanic 2009-2013 Shanghai University Doctor of Mechanical Engineering
Employment	2013-till now Shanghai University of Electrical Power, Lecturer
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ● Research on Fault Classification Early Warning and Intelligent Self-Maintenance Method for Complex Equipment. Period: 2015-2018. Partner: Shanghai Education Commission. Funding: 60,000 RMB (Government's project) ● Research on Early Fault Warning and Intelligent Self-healing Method for Complex Equipmen. Period: 2014-2018. Partner: Shanghai Electric Power University. Funding: 30,000 RMB
Industry collaborations over the last 5 years	
Patents and proprietary rights	
Important publications	<ul style="list-style-type: none"> ● Yinghui Liu, Shulin Liu, Youfu Tang, Ruihong Jiang. Non-linear Characters of Rotor System with Crack and Rub-impact Coupling Faults[J]. Advanced Materials Research, 2011, vols.199-200, p 203-208.(ISTP: 000291828000037;EI: 20111113756807) ● Shulin Liu, Yinghui Liu, Youfu Tang, Ruihong Jiang. A Novel Pattern Recognition Approach Based on Immunology[J]. Information Technology Journal, v11, p 134-140, 2012.(EI: 20120314685496)
Activity in professional associations within the last five years	

Name	Xin Xia, Ma
Post	Associate Professor
Academic career	1993/09-1997/07 Chongqing University, Bachelor of Thermal Engineering 1999/09-2002/04 North China Electric Power University, Master of Thermal Engineering 2007/04-2014/04 Shanghai University of Technology, Department of Thermal Engineering, Ph.D.
Employment	1997/07-1999/09 Hebei Xibaipo Power Plant Power Generation Department 2002- Associate Professor, School of Energy and Mechanical Engineering, Shanghai University of Electric Power
Research and development projects over the last 5 years	
Industry collaborations over the last 5 years	2016/09/26-2017/01/01, Numerical Analysis and Optimization of Heat Transfer and Resistance Characteristics of Elliptical H-Fixed Tubes, Shanghai Heheng Energy Technology Development Co., Ltd. 2016/03/21-2017/03/30, Vice President of Science and Technology Project, Changshu Youbang Radiator Co., Ltd.
Patents and proprietary rights	
Important publications	
Activity in professional associations within the last five years	

Name	Feng, Yang
Post	Lecturer
Academic career	2001-2005 Shandong Agricultural University Bachelor in Engineering 2005-2008 Shandong Agricultural University Master in Engineering 2008-2013 Nanjing University of Aeronautics and Astronautics Doctor in Engineering
Employment	2013- Present Shanghai Electric Power University Lecturer
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ● Research on Basic Technology of Numerical Control Machining of Oral Prosthesis. Period: 2016-2018. Partner: Shanghai Education Commission. Funding: 60,000 RMB (Government's project) ● Study on Mechanism of Pulsed Laser-assisted Milling of Completely Sintered Zirconia Ceramic Dentures. Period: 2014-2018. Partner: Shanghai Electric Power University. Funding: 30,000 RMB
Industry collaborations over the last 5 years	<ul style="list-style-type: none"> ● Application Research of Digital Technology in Ophthalmic Medical Devices. Period: 2018-2019. Partner: Suzhou Liuliu Vision Technology co. LTD. Funding: 60,000 RMB
Patents and proprietary rights	<ul style="list-style-type: none"> ● An Intelligent Underground Parking System. Patent code:CN208966107U (2019) ● The Utility Model Relates to A Strawberry Automatic Identification Picking Machine. Patent code:CN208490255U (2019)
Important publications	<ul style="list-style-type: none"> ● Segmentation Algorithm about Sub-Regions of Discrete Tool Path Track Based on Vector Angular Bisector. Journal of Computer-Aided Design & Computer Graphics, Vol.25, No.1, pp.120-125 (2013) ● An Adaptive Layout Algorithm Based on Curvature Matching and Recursive Ordering. Journal of Computer-Aided Design & Computer Graphics, Vol.12, No.6, pp.1120-1125 (2015)
Activity in professional associations within the last five years	No

Name	Li, Zhang
Post	Professor
Academic career	1990-1994 Xi'an Jiaotong University Bachelor in Fluid Mechanics 1994-1997 Xi'an Jiaotong University Master in Fluid Mechanics 1998-2001 Shanghai Jiaotong University Doctor in Power Machinery and Engineering
Employment	1997-1999 Shanghai University of Electric Power Lecturer 1999-2001 Shanghai University of Electric Power Associate Researcher 2001-2007 Shanghai University of Electric Power Associate Professor Shanghai University of Electric Power Professor
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ● Design Audit and Testing Service of Passive Containment Circulating Cooling Unit. Period: 2015.6-2016.12. Partner: Shanghai Power Equipment Research Institute CO.,LTD. Funding: 50,000 RMB ● Machining Design and 3D Printing Manufacture of Airfoil Blade for getting uniform fluid of Heat Exchange Coil(Unilateral) of Circulating Cooling Fan Unit of CAP1400. Period: 2016.11-2016.12. Partner: Shanghai Power Equipment Research Institute CO.,LTD. Funding: 148,000 RMB ● Detection and Analysis of SO₃ Content in Flue Gas after De-NO_x Process of the flue gas from boiler. Period: 2017.8-2018.7. Partner: Shanghai Waigaoqiao Second Power Generation CO., LTD. Funding: 270,000 RMB ● The Project of Condenser optimization . Period: 2018.9-2018.12. Partner: Shanghai Caojing Thermal Power CO.,LTD. Funding: 400,000 RMB ● Testing the Performance of De-NO_x Catalyst for flue gas of Coal-fired Boiler. Period: 2019.4-2019.12. Partner: Shanghai Heheng Energy Technology Development CO.,LTD. Funding: 90,000 RMB ● Optimization of Condenser Tube Bundle for 1# Unit in Pingwei Power

	Plant. Period: 2019.6-2019.8. Partner: Shenzhen Cooperative Power Technology CO.,LTD. Funding: 130,000 RMB
Industry collaborations over the last 5 years	Optimum Design of Condenser Tube Bundle Period: 2015-. Partner: Shenzhen Cooperative Power Technology CO.,LTD
Patents and proprietary rights	A Narrow Band Parallel Flow Condenser Tube Bundle with Double Trapezoidal Air Cooling Zone. Patent code: ZL 2014 10550669.8 (2017) Condenser Tube Bundle. Patent code: ZL 2016 10250938.8 (2018)
Important publications	<ul style="list-style-type: none"> • A numerical calculation method of the tube bundle arrangement correction factor for condensers. TURBINE TECHNOLOGY, Vol.57, No.3, pp.178-180 (2015) • Discussions on tube bundle arrangement factor for condensers in steam turbines. THERMAL POWER GENERATION, Vol.45, No.10, pp.110-114 (2016) • The Influence of Tube Sheet Size on the Performance of the Power Station Condenser. TURBINE TECHNOLOGY, Vol.59, No.2, pp.107-110 (2017) • Quantitative Analysis on Uniformity of Inflow of Fan Coil Unit in Containment Cooling System. Nuclear Power Engineering, Vol.39, No.3, pp.114-118 (2018) • Numerical Calculation of Condenser Performance Considering Cooperative Operation of Cold-end System. TURBINE TECHNOLOGY, Vol.61, No.2, pp.86-90 (2019)
Activity in professional associations within the last five years	None

Name	Mei Lin, Zhang
Post	Associate Professor
Academic career	1994-1998 Northwestern Polytechnical University Bachelor in Materials Science and Engineering 2000-2003 Northwestern Polytechnical University Master in Materials Science and Engineering 2003-2008 Donghua University doctor in College Mechanical Engineering
Employment	1998-2000 Shaanxi Huaxing Electronics Group Co., Ltd. Technician
Research and development projects over the last 5 years	
Industry collaborations over the last 5 years	Shanghai Waigaoqiao No.2 Power Generation Co., Ltd. Research on Key Technologies of Sludge Blending and Burning Transformation. 2.36 million yuan, 2019.07-2021.06, participation in research.
Patents and proprietary rights	A preparation Method of WC/MgO Nanocomposite Powders. Patent code: ZL 2007 1 0171634.3(2009) A height adjusting device for transporting high temperature articles. Patent code: 201821682809.7(2019) A Three-defend and electrodeless discharge Lamp. Patent code: 201821682387.3(2019)
Important publications	<ul style="list-style-type: none"> • Study on Fracture Toughness of WC/MgO Composite Prepared by Spark Plasma Sintering, Journal Of Hot working Technology , Vol.20, pp. 116-119 (2018) • Reflection and Exploration of the Engineering Drawing course in teaching, Journal of Advances in Education, Vol.8, No.3, pp.288-291(2018) • Research progress of ultrafine composite powder sintering technology, Journal of ceramics, Vol.39, No.4, pp.375-379(2018)
Activity in professional associations within the last five years	Member of Shanghai Engineering Graphics Society

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Name	Tao, Zhang
Post	Lecturer of Engineering Thermophysics
Academic career	2004-2008 Central South University Bachelor in School of Energy Science and Engineering 2008-2013 University of Science and Technology of China Ph.D in Engineering Thermophysics
Employment	2013-2014 Beijing Aerospace Long-March Aircraft Research Institute Engineer 2005- Shanghai University of Electric Power Lecturer of Engineering Thermophysics
Research and development projects over the last 5 years	<ul style="list-style-type: none"> Shanghai Sailing program Period: 2018-2021. Partner: Shanghai Committee of Science and Technology. Funding: 200,000 RMB
Industry collaborations over the last 5 years	Improvement and optimization on heat pump sludge drying Period: 2017-2018. Partner: Jiangsu Yitao environmental protection machine CO.,LTD.
Patents and proprietary rights	Nano-fluid based solar-assisted heat pump. Patent code: ZL 2014 10572585.4 (2018)
Important publications	Experimental optimization on the volume-filling ratio of a loop thermosyphon photovoltaic/thermal system, Renewable Energy, Vol.143,pp. 233-242(2019) Numerical study and experimental validation of a direct-expansion solar-assisted heat pump for space heating under frosting conditions, Energy and Buildings, Vol.185,pp. 224-238(2019). Experimental study on a forced-circulation loop thermosyphon solar water heating system, International Journal of Photoenergy, 4526046(2018). Experimental study of the wickless loop thermosyphon solar water heating system under passive and active cycle mode, International Journal of Low-Carbon Technologies, Vol.12, No.3, pp.256-262(2017).
Activity in professional associations within the	The reviewer of the following journals: Applied energy;

last five years	Energy Conversion and Management; Renewable Energy; Energy and Buliding; International Journal of Photoenergy; International Journal of Low-carbon Technologies;
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Name	Qing Rong, Liu
Post	Associate Professor
Academic career	1995.9-1999.6 Qingdao University of Technology , Bachelor in Architectural Environment and Equipment, 1999.9-2002.3 Harbin University of Technology , Master in Thermal Engineering, 2004.4-2007.3 The University of Kitakyushu , Ph.D. in Environmental Engineering
Employment	2007.4-2009.3 Institute of Integrated Science and Technology, Kyushu University, Researcher. 2009.4-present, College of Energy and Mechanical Engineering , Shanghai University of Electric Power
Research and development projects over the last 5 years	1. Optimal Design of Energy Storage Equipment. Period: 2019.5- 2019.6. Partner: Tianjin University. Funding: 47,000 RMB 2. Energy Consumption Statistics of Office Buildings in Huangdao District, Qingdao. Period: 2018.1-2019.5. Partner: Tongji University. Funding: 45,000 RMB
Industry collaborations over the last 5 years	
Patents and proprietary rights	
Important publications	1.Research and application of optimization design method of station network layout in regional energy planning, Journal of Engineering for Thermal Energy and Power, Vol. 34, No. 8, 25-30, (2019) 2.Study on Optimization of Multi-unit Operating Load Allocation in Heat Pump System, Journal of Engineering for Thermal Energy and Power, Vol. 33, No. 2, 39-45, (2018) 2. Research on Optimization of the Imbalance Problem of Load Rate with Multiple-Units in Ground Source Heat Pump (GSHP) System, Journal of Asian Urban Environment, 445-450, (2017).
Activity in professional	

associations within the last five years	
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Name	Hong Bo, Ren
Post	Professor
Academic career	1999- 2003, Tongji University Bachelor in Thermal Energy and Power Engineering 2003-2006, Tongji University Master in Thermal Engineering 2006-2009, The University of Kitakyushu Doctor in Environmental Engineering
Employment	2013-Present, Shanghai University of Electric Power Professor 2009-2012, Ritsumeikan University Researcher
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ● Key R&D Project. Period: 2019-2022. Partner: Ministry of Science and Technology of the People’s Republic of China. Funding: 661, 900 RMB (Government's project) ● Youth Science Foundation. Period: 2015-2017. Partner: National Natural Science Foundation of China. Funding: 220,000 RMB (Government's project) ● Key Research Project. Period: 2013-2015. Partner: Shanghai Science and Technology Commission. Funding: 600,000 RMB (Government's project)
Industry collaborations over the last 5 years	
Patents and proprietary rights	
Important publications	<ul style="list-style-type: none"> ● Multi-objective optimization of a hybrid distributed energy system using NSGA-II algorithm, Frontier in Energy, Vol.12, No.4, pp.518-528 (2018) ● Collaborative Optimization of Distributed Energy Network Based on Electricity and Heat Interchanges, Proceedings of the CSEE, Vol.38, No.14, pp.4023-4034 (2018) ● Economic Optimization and Energy Assessment of Distributed Energy Prosumer Coupling Local Electricity Retailing Services, , Proceedings of the CSEE , Vol.38, No.13, pp.3756-3766 (2018)
Activity in professional	Member of Chinese Society For Electrical Engineering

associations within the last five years	Member of Chinese Society For Systems Engineering
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Name	Yu Long, Ying
Post	Lecturer
Academic career	2012/09-2016/12, Harbin Engineering University, Marine Engineering, Ph.D.; 2010/08-2013/03, Harbin Engineering University, Power Machinery and Engineering, Master; 2006/08-2010/06, Harbin Engineering University, Thermal Energy and Power Engineering, Bachelor
Employment	2017/01-present, Lecturer, School of Energy and Mechanical Engineering, Shanghai University of Electric Power; 2015/01-2016/12, Shanghai Electric Gas Turbine Co., Ltd., research and design staff; 2013/04-2014/12, Shanghai Electric Power Station Group, R&D Center, Researcher;
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ●Research on Adaptive Gas Path Fault Diagnosis and Prognosis for Gas Turbine under Transient Operating Conditions. Period: 2019/01-2021/12. Partner: National Natural Science Foundation of China. Funding: 270,000 RMB ●Research on the Key Issues of Risk Management and Investment in the Transformation of Modern Energy Comprehensive Service Enterprises for Power Grid Enterprises. Period: 2018/01-2020/12. Partner: Zhejiang Huayun Information Technology Co., Ltd. Funding: 590,000 RMB ●Research on Gas Turbine Maintenance Cycle and Maintenance Strategy Technology. Period: 2020/01-2020/12. Partner: Shanghai Electric Power Engineering Co., Ltd. Funding: 295,000 RMB ●Application of Craftsmanship in Ideological and Political Education in the Course of Gas Turbines and Combined Cycle. Period: 2018/01-2019/12. Partner: Shanghai Municipal Education. Funding: 50,000 RMB Commission.
Industry collaborations over the last 5 years	<ul style="list-style-type: none"> ●Research on the Key Issues of Risk Management and Investment in the Transformation of Modern Energy Comprehensive Service ●Enterprises for Power Grid Enterprises. Period: 2018/01-2020/12. Partner: Zhejiang Huayun Information Technology Co., Ltd. Funding: 590,000 RMB

	<ul style="list-style-type: none"> ●Research on Gas Turbine Maintenance Cycle and Maintenance Strategy Technology. Period: 2020/01-2020/12. Partner: Shanghai Electric Power Engineering Co., Ltd. Funding: 295,000 RMB
Patents and proprietary rights	<p>Ying Yulong, Hu Xiaoming. Simulation software for off-duty conditions of marine dual-shaft gas turbine power generation module, registered at China Copyright Protection Center: 2011SR061867</p>
Important publications	<ul style="list-style-type: none"> ●Yulong Ying, Li Jingchao. Research on Fault Diagnosis and Prognosis of Gas Turbines [M]. Science Press, 2020. ●Jingchao Li, Yulong Ying*. A Method to Improve the Robustness of Gas Turbine Gas-Path Fault Diagnosis Against Sensor Faults[J]. IEEE Transactions on Reliability, March 2018, 67(1): 3-12. ●Jingchao Li, Yulong Ying*. Gas turbine gas path diagnosis under transient operating conditions: a steady state performance model based local optimization approach [J]. Applied Thermal Engineering, Volume 170, April 2020, doi:https://doi.org/10.1016/j.applthermaleng.2020.115025. ●Yulong Ying, Jingchao Li*, Zhimin Chen, Jian Guo. Study on rolling bearing on-line reliability analysis based on vibration information processing[J]. Computers & Electrical Engineering, July 2018(69):842-851. ●Jingchao Li, Yulong Ying*, Chunlei Ji. Study on gas turbine gas-path fault diagnosis method based on quadratic entropy feature extraction [J]. IEEE Access, 2019, 7: 89118-89127. (DOI: 10.1109/ACCESS.2019.2927306)
Activity in professional associations within the last five years	<ul style="list-style-type: none"> ●Act as reviewers for the following international journals: 《International Journal of Computer Applications in Technology》、《Advances in Mechanical Engineering》、《Computers and Electrical Engineering》、《Royal Society Open Science》、《IEEE Transactions on Reliability》、《Energy Conversion and Management》、《IEEE Access》、《Mobile networks and applications》 ●Session Chair for 2019 IEEE 2nd International Conference on Electronic Information and Communication Technology (ICEICT 2019); ●Session Chair for the 10th IEEE Prognostics and System Health Management Conference (PHM 2019);

Name	Dong Mei, Ji
Post	Professor of College of Energy and Mechanical Engineering
Academic career	1994-1998 Nanjing Technology University Bachelor in Chemical Process Mechanical 2000-2003 Nanjing Technology University Master in Chemical Process Mechanical 2003-2006 Shanghai Jiaotong University PHD in Engineering Mechanics 2007-2011 East China University of Science and Technology Postdoctoral workstation of power engineering and engineering thermal physics, On-the-job post-doctoral 2012-2013, Ohio State University, Department of Mechanical and Aeronautics and Astronautics, Visiting Scholar
Employment	1998-2000 Xuzhou Enhua Pharmaceutical Group Co., Ltd. Assistant Engineer 2006- Shanghai University of Electric and Power Professor
Research and development projects over the last 5 years	Program from Shanghai Natural Science Foundation, 19ZR1420300, Creep-fatigue –oxidation damage analysis and life prediction on Ultra-super critical turbine rotor, Period: 2019-2022. Funding: 200000 RMB (Government's project) Program from South China University of Technology, H2017-077 , Mechanics property testing on P92 steel under complicated loading, Period: 2017-2018. Funding: 150000 RMB Program from South China University of Technology, H2017-076 , Mechanics property testing and analysis on High Cr steel at elevated temperature. Period: 2017-2018. Funding: 50000 RMB Program from Nanjing Technology University, H-2015-123 , Creep testing at low and medium temperature, Period:2015-2015. Funding: 20000 RMB
Industry collaborations over the last 5 years	None
Patents and proprietary rights	Patent: A method of start-up optimization and creep-fatigue life prediction on a steam turbine rotor, Patent applying code: 201710422051.7 (2017) A method applied on creep-fatigue life prediction and reliability analysis of matensite steel. Patent applying code: 201710422127.6 (2017) A life prediction model of tube based on the oxide scale FEM simulation, Patent applying code: 201811154663.3 (2018) Software registration right:

	The stress calculation software V1.0 on steam turbine rotor based on SVM, 2011.
Important publications	<p>Text Book: Ji Dongmei, Wang Hao, Xu Qi-sheng. Theoretical Mechanics, Xi'an University of Electronic Science and Technology Press, 2017.</p> <p>Academic work: Wang Jiong, Ji Dong-mei. Complicated mechanics behavior of High Cr steel at elevated temperature. South China University of Technology Press Co., Ltd, 2019.</p> <p>Representative paper: [1] Ji Dong-mei, Sun Jia-qi, Sun Quan, Guo Heng-Chao, Ren Jian-xing,Zhu Quan-jun. Optimization of start-up scheduling and life assessment for a steam turbine. Energy,2018, 160 :19-32. [2] Dong-Mei Ji*, Jia-Qi Sun, Yue Dui, Jian-Xing Ren. The Optimization of the Start-up Scheduling for a 320 MW Steam Turbine[J]. Energy, 2017, 125:345-355. [3] Dongmei Ji*, Jianxing Ren & Lai-Chang Zhang. A Novel Creep-Fatigue Life Prediction Model for P92 Steel on the Basis of Cyclic Strain Energy Density[J]. Journal of Materials Engineering and Performance. 2016 ,25:4868–4874</p>
Activity in professional associations within the last five years	Member of Shanghai Mechanics Association

Name	Xing Chi, Ma
Post	Associate Professor of College of Energy and Mechanical Engineering
Academic career	1998-2002 Henan University of Science and Technology Bachelor in Die & Mould Design and Manufacture 2002-2005 Henan University of Science and Technology Master in Material Physics and Chemistry 2005-2009 Tongji University PhD in Material Science
Employment	2009- University of Shanghai for Science and Technology Associate Professor of College of Energy and Mechanical Engineering
Research and development projects over the last 5 years	●Study on the mechanism of fretting corrosion of ACSR conductor under electric field. Period: 2016-2018. Partner: National Natural Science Foundation of China. Funding: 200,000 RMB
Industry collaborations over the last 5 years	
Patents and proprietary rights	
Important publications	●Fretting wear behaviors of aluminum cable steel reinforced (ACSR) conductors in high-voltage Transmission Line. Metals. 2017, 7(9), 373, DOI: 10.3390/met7090373.
Activity in professional associations within the last five years	

Name	Dong, Li
Post	Lecturer of Energy and Mechanical Engineering College
Academic career	2006-2010 Huazhong University of Science and Technology Bachelor in Thermal and Power Engineering 2010-2017 Shanghai Jiao Tong University Doctor in Nuclear Science and Engineering
Employment	2017- Shanghai University of Electric Power Lecturer of Energy and Mechanical Engineering College
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ● Research on the integration of Nuclear major courses and ideological and political course. Period: 2018.1-2019.12. Funding: 40,000 RMB (Government's project) ● Research on uncertain quantification method of reactor thermal hydraulic code. Period: 2019.5-2022.4. Funding: 200,000 RMB (Government's project) ● RELAP5 code modification for marine small reactor. Period: 2018.5-2018.12. Funding: 146,000 RMB ● Data investigation and model testing for boiling heat transfer of tube and rod bundles. Period: 2019.1-2019.6. Funding: 200,000 RMB
Industry collaborations over the last 5 years	
Patents and proprietary rights	
Important publications	
Activity in professional associations within the last five years	Reviewer of “Nuclear Engineering and Design”

Name	Yan, Li
Post	Associate professor of Energy and Mechanical Engineering College
Academic career	1996 - 2000 Northeast Electric Power University Bachelor in Thermal engineering 2000 - 2003 Northeast Electric Power University Master in Thermal engineering 2003-2006 Zhejiang University Doctor in Environmental science and engineering
Employment	2006-2009 Zhengzhou University Lecturer of Chemical Industry College 2009-2011 Shanghai Jiao Tong University Post Doctor of Mechanical and Power Engineering College 2011- Shanghai University of Electric Power Associate professor of Energy and Mechanical Engineering College
Research and development projects over the last 5 years	<ul style="list-style-type: none"> • The Key Program on Heat and Electricity Cogeneration System (as participant). Period: 2018-2021. Partner: Shanghai Science and Technology Commission. Funding: 800,000 RMB (Government's project)
Industry collaborations over the last 5 years	<ul style="list-style-type: none"> • The Simulation and Calculation Research and Development of Boiler. Period: 2017-2018. Partner: Shenergy Group.
Patents and proprietary rights	<ul style="list-style-type: none"> • A device of phase change heat storage type heat exchanger. Patent code: ZL 2016 2 1192336.3 (2016) • A stable low NOx combustion burner used in boiler. Patent code: ZL 2017 2 1711923.3 (2018)
Important publications	<ul style="list-style-type: none"> • Thermal Property Characterization of a Low Supercooling Degree Binary Mixed Molten Salt for Thermal Energy Storage System,INTERNATIONAL JOURNAL OF THERMOPHYSICS, No.40:41, pp.1-12 (2019) • Numerical Simulation Study on Retrofit of Low NOx Burner for 1000MW Ultra-supercritical Boiler, Proceedings of the CSEE,Vol.39, No.8, pp.2376-2383 (2019)(in Chinese)
Activity in professional associations within the last five years	Expert Reviewer of Degree Center of the Ministry of Education of the People's Republic of China

Name	Jian Feng, Liu
Post	Ph.D.
Academic career	2000-2004 Liaoning University of Technology Bachelor 2004-2007 Southeast University Master Master 2011-2014 Kyushu University Ph.D.
Employment	2007-2010 Jinchuan Group Co., Ltd. Mechanical Engineer 2014-2015 Kyushu University Assistant Professor 2015- Shanghai University of Electric Power Associate Professor
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ● Research on electrocatalyst in PEM cathode. Period: 2015-2017. Funding: 45,000 RMB ● Young Eastern Scholar. Period: 2016-2019. Funding: 300,000 RMB
Industry collaborations over the last 5 years	
Patents and proprietary rights	
Important publications	<ul style="list-style-type: none"> ● Nitrogen-Doped Carbon Foam as a Highly Durable Metal-Free Electrocatalyst for the Oxygen Reduction Reaction in Alkaline Solution, <i>Electrochimica Acta</i>, Vol. 220, pp. 554–561 (2016) ● Metal-Free Nitrogen-Doped Carbon Foam Electrocatalysts for the Oxygen Reduction Reaction in Acid Solution, <i>Journal of the Electrochemical Society</i>, Vol. 163, No. 9, pp. F1049-1054 (2016)
Activity in professional associations within the last five years	

Name	Jiang, Liu
Post	Lecturer of College of Energy and Mechanical Engineering
Academic career	1998-2002 Xi'an JiaoTong University Bachelor in Energy and Power Engineering College 2002-2013 Xi'an JiaoTong University Ph.D in Energy and Power Engineering College
Employment	2013- Shanghai University of Electric Power, Lecturer of College of Energy and Mechanical Engineering
Research and development projects over the last 5 years	Study on the formation principle and control method of gypsum rain. Period:2015. Shanghai Municipal Education Commission. Funding: 50,000 RMB
Industry collaborations over the last 5 years	Research on design method of efficient heat pipe heat exchanger. Period: 2018. Partner: Jiangsu guangxu heat pipe technology co. LTD Test and improvement of inhomogeneity inlet of coil pipe in circulating cooling unit. Period: 2016. Partner: Shanghai power generation equipment design and research institute
Patents and proprietary rights	A phase-change temperature-control waste heat synergetic device for gas turbine, 2019
Important publications	Liu J, Wang Y, Yang B. Wavelet packet analysis of particle response to turbulent fluctuation[J]. Advanced Powder Technology, 2012, 23(3): 305~314 (SCI: 966EC; EI: 20122515126309).
Activity in professional associations within the last five years	

Name	Jing Yu, Man
Post	Lecturer
Academic career	1990-1994 Shanghai TieDao University Bachelor in railway vehicle 2000-2002 Harbin Institute of Technology Master in Mechanical Manufacture and Automation 2011-2017 East China University of Science and Technology Doctor in Mechanical Design and Theory
Employment	1994-2000 Harbin Rolling Stock Factory Engineer 2002- Shanghai University of Electric Power Lecturer
Research and development projects over the last 5 years	None
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications	<ul style="list-style-type: none"> ●Micro-scale Contacting Numerical Simulation on Shoulder Face Seal of Tubing and Casing Threaded Connection. Journal of East China University of Science and Technology (Natural Science Edition),Vol.42,No.5,pp.722-729(2016) ● Contact Pressure and Seal Properties of Sealing Shoulder Face for Tubing Threaded Connection. Journal of East China University of Science and Technology (Natural Science Edition), Vol.41,No.3,pp.417-423(2015) ●Micro-scale numerical simulation on metal contact seal. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, Vol.228,No.12,pp.2168-2177(2014)
Activity in professional associations within the last five years	None

Name	Ting, Yan
Post	Lecturer of College of Energy and Mechanical Engineering, Shanghai University of Electric Power
Academic career	<p>(1) 1999.9-2003.7, Northeast Electric Power University, Bachelor in Thermal Energy and Power Engineering</p> <p>(2) 2003.9-2006.4, Northeast Electric Power University, Master in Thermal Power Engineering</p> <p>(3) 2011.9-2016.9, Shanghai Jiao Tong University, PhD in Power Engineering and Engineering Thermophysics</p>
Employment	<p>(1) 2006.9-2011.7, Inner Mongolia University of Technology, Lecturer of College of Energy and Power Engineering</p> <p>(2) 2016.9- , Shanghai University of Electric Power, Lecturer of College of Energy and Mechanical Engineering</p>
Research and development projects over the last 5 years	<p>(1) Funding scheme for training young teachers in Shanghai, ZZsd118015, Study on the Thermochemical Sorption Heat Storage Mechanism and Temperature-Lift Characteristics. Period: 2018-2019. Project Source: Shanghai Education Commission. Funding: 40,000 RMB (Government's project)</p> <p>(2) Project of the National Natural Science Foundation of China under the contract No. 51522604: Engineering Thermophysical Problem in Energy-Saving and Energy Storage System (as participant), Period: 2016-2018, Funding: 1,300,000 RMB (Government's project)</p> <p>(3) Project of the National Natural Science Foundation of China under the contract No. 51276211: Investigation on Dual-mode Thermochemical Sorption Energy Storage Characteristics for Long-Term Storage of Solar Thermal Energy (as participant), Period: 2013-2016, Funding: 800,000 RMB (Government's project)</p>
Industry collaborations over the last 5 years	NO

<p>Patents and proprietary rights</p>	<p>(1) Yan Ting, Li T.X., Wang R.Z., Li Hui. A Self Temperature-Lift Thermochemical Heat Storage Device and Its Application, 2015.03.04, China, Patent code: ZL 201310193402.3</p> <p>(2) Li T.X., Yan Ting, Li Hui, Wang R.Z. High efficiency Cascade Thermochemical Heat Storage Device for Solar Heat Storage and Its Application, 2015.12.02, China, Patent code: ZL 201310195797.0</p> <p>(3) Xu J.X., Li T.X., Yan Ting, Wu Si, Wu D.L, Zhai T.Y., Wang R.Z. A Sorption Thermal Battery Air Conditioning System of Electric Vehicle for Combined Cold and Heat Supply, 2018.03.09, China, ZL 201610470203.6</p> <p>(4) Wu Si, Li T.X., Xu J.X., Yan Ting, Wang R.Z. A kind of high efficient heat storage unit and its forming mold and manufacturing method. 2016.11.09, China, ZL 2015 1 0167351.6</p>
<p>Important publications</p>	<p>(1) Wu Shaofei, Yan Ting*, Kuai Zihan, Pan Weiguo*. Thermal conductivity enhancement on phase change materials for thermal energy storage: A review. Energy Storage Materials, 2020, 25: 251–295.</p> <p>(2) Yan Ting*, Kuai Z.H., Wu S.F. Multi-mode solid–gas thermochemical resorption heat transformer using NiCl₂-SrCl₂/NH₃. Applied Thermal Engineering, 2020, 167: 114800 (1–11).</p> <p>(3) Yan Ting*, Kuai Z.H., Wu S.F. Experimental investigation on a MnCl₂-SrCl₂/NH₃ thermochemical resorption heat storage system. Renewable Energy, 2020, 147: 874–883.</p> <p>(4) Wu Shaofei, Yan Ting*, Kuai Zihan, Pan Weiguo*. Preparation and thermal property analysis of a novel phase change heat storage material. Renewable Energy, 2020, 150: 1057–1065.</p>
<p>Activity in professional associations within the last five years</p>	<p>Editor of 《Research and Application of Materials Science》 Journal</p>

Name	Jian Xing, Ren
Post	Professor of Energy and Mechanical Engineering College
Academic career	1978-1982 Tongji University Bachelor in Thermal engineering 1983-1986 Tongji University Master in Thermal engineering 1989-1993 Zhejiang University Doctor in Energy engineering
Employment	1982-1983 China Design Institute of New Building Materials Engineer Assistant 1986-1989 Tongji University Lecturer of Mechanical Engineering College 1993- Shanghai University Electric Power Professor of Energy and Mechanical Engineering College
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ●Gas-steam combined cycle generating unit technology , Period: 2019-2020, Guodian Huzhou Nanxun Natural Gas Thermolectric CO., LTD. Funding:455000 RMB ●Research on new technology of earthquake prevention and disaster reduction for high voltage equipment in substations, Period: 2016-2018, Global Energy Internet Institute, Funding:244500 RMB ●Research on the key technology of efficient and safe operation of large capacity generating unit , Period: 2015-2018.Funding:600000 RMB (Government's project)
Industry collaborations over the last 5 years	<ul style="list-style-type: none"> ●Gas-steam combined cycle generating unit technology, 2019, Guodian Huzhou Nanxun Natural Gas Thermolectric CO., LTD. ●Research on new technology of earthquake prevention and disaster reduction for high voltage equipment in substations, 2016, Global Energy Internet Institute.
Patents and proprietary rights	<ul style="list-style-type: none"> ●An all - weather adaptive wind diversion system for cooling tower in thermal power plant, Patent code: 201510419021.1(2015) ●The utility model relates to a full load SCR Denitrification system for a coal-fired boiler, Patent code: 210910430570.7(2019)
Important publications	<ul style="list-style-type: none"> ●Energy Saving Analysis of Circulating Water Waste Heat Recovery from Water Source Heat Pump , IOP Conference Series:Earth and Environmental Science 295(2019): 052016-17 ●Study on the Change Characteristics of Dust Specific Resistivity and Electrostatic Precipitation Efficiency , IOP Conf. Series: Earth and Environmental Science 108 (2018): 1-7 ●Analysis of operating energy consumption of large temperature difference heat pump system at water source side, Science technology and engineering, Vol.18, No.5: 207-212 (2018)

	<ul style="list-style-type: none"> ●Energy Consumption Analysis of Low Temperature Multi Effect Seawater Desalination System Based On Mechanical Vapor Compression Technology , 2017 2nd International Conference on Environmental Science and Engineering, 13-18 (2017) ●Analysis of recover waste heat for thermal power plant using ejector, International Journal of Energy and Power, 35-41 (2016) ●Research of Fine Particulate Matter Removal Mechanism in Wet-electrostatic Precipitator , 2015/4th International Conference on Energy and Environmental Protection (ICEEP 2015), 1943-1947 (2015)
Activity in professional associations within the last five years	Member of Chinese Society of Power Engineering

Name	Fang, Liu
Post	Professor of Shanghai University of Electric Power
Academic career	1993-1997 Tianjin University, Double Bachelors, Engineering Thermophysics, Engineering Economy 2000-2002 Tianjin University Master in Engineering Thermophysics 2002-2006 the University of Hong Kong PhD in Heat Transfer
Employment	1997-2000 China Tianchen Chemical Engineering Co. Engineer 2006-2008 Purdue University, USA Postdoctoral Researcher 2008-2009 University of Nebraska Lincoln, USA Postdoctoral Researcher 2008-2010 FDSI Co. , USA Project Engineer, Adjunct Researcher 2010-2014 Bee Co. , USA Research Engineer, Department Head 2014- Shanghai University of Electric Power Professor
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ●Natural Science Foundation of Shanghai in China. Period: 2019-2022. Partner: Shanghai Science and Technology Committee. Funding: 200,000 RMB ●Natural Science Foundation of Shanghai in China. Period: 2015-2017. Partner: Shanghai Science and Technology Committee. Funding: 100,000 RMB ●Shuguang program. Period: 2015-2017. Partner: Shanghai Education Development Foundation and Shanghai Municipal Education Commission. Funding: 150,000 RMB ●Program for Professor of Special Appointment (Eastern Scholar). Period: 2014-2017. Partner: Shanghai Institutions of Higher Learning.
Industry collaborations over the last 5 years	
Patents and proprietary rights	An ejector expansion heat pump coupled with thermal storages. Patent code: ZL 201510028057.7 (2017)
Important publications	<ul style="list-style-type: none"> ● F. Liu*, H. Sun, D. Zhang, Q. Chen, J. Zhao, L. Wang, Optimization of laminar convective heat transfer of oil-in-water nanoemulsion fluids in a toroidal duct, International Journal of Heat and Mass Transfer 150(2020)119332 ● F. Liu*, W. Qiu, J. Deng, Q. Mo, E. A. Groll, J. Zhao, J. Liang,

	<p>Multi-objective non-simultaneous dynamic optimal control for an ejector expansion heat pump with thermal storages, Applied Thermal Engineering 168(2020)114835</p> <ul style="list-style-type: none"> ● F. Liu*, Q. Chen, Z. Kang, W. Pan, D. Zhang, L. Wang, Non-Fourier heat conduction in oil-in-water emulsions, International Journal of Heat and Mass Transfer, 2019 135:323-330 ● F. Liu*, D. Zhang, Y. Cai, Z. Qiu, Q. Zhu, J. Zhao, L. Wang, H. Tian, Multiplicity of forced convective heat transfer of nanofluids in curved ducts, International Journal of Heat and Mass Transfer, 2019, 129: 534–546 ● F. Liu*, Y. Cai, L. Wang, J. Zhao, Effects of nanoparticle shapes on laminar forced convective heat transfer in curved ducts using two-phase model, International Journal of Heat and Mass Transfer, 2018, 116:292-305 ● F. Liu*, W. Zhu, J. Zhao, Model-based dynamic optimal control of a CO2 heat pump coupled with hot and cold thermal storages, Applied Thermal Engineering, 2018, 128:1116-1125 ● F. Liu*, W. Zhu, J. Zhao, J. Ren, E. A. Groll, Y. Cai, A new method for optimal control of a dual-mode CO2 heat pump with thermal storage, Applied Thermal Engineering, 2017, 125: 1123–1132 ● F. Liu*, W. Zhu, Y. Cai, E. A. Groll, J. Ren, Y. Lei, Experimental performance study on a dual-mode CO2 heat pump system with thermal storage, Applied Thermal Engineering, 2017, 115:393–405 ● F. Liu*, E. A. Groll, J. Ren, Comprehensive experimental performance analyses of an ejector expansion transcritical CO2 system, Applied Thermal Engineering, 2016, 98: 1061–1069 ● F. Liu*, Effects of geometries on heat transfer enhancement of thermal fluids in curved ducts, Applied Thermal Engineering, 2015, 90:590-595 ● F. Liu*, E. A. Groll, Study of ejector efficiencies in refrigeration cycles, Applied Thermal Engineering, 2013, 52(2): 360-370
Activity in professional associations within the last five years	Member of IIR, ASME, ASHRAE, AEE (Senior), Chinese Association Of Refrigeration (Senior)

Name	Xiao Yang, Zou
Post	Lecturer of College of Energy and Mechanical Engineering
Academic career	2002-2006 Southwest Jiao Tong University Bachelor in Mechanical Engineering and Automation 2009-2012 Shanghai Jiao Tong University Master in Mechanical Design and Theory 2012-2018 Shanghai Jiao Tong University PhD in Mechanical Engineering
Employment	2006-2007 Sichuan East Logistics Co., Ltd Mechanical Technician 2007-2009 China Railway Shanhaiguan Bridge Group Co., Ltd Process Technician 2018-2019 Envision Energy Mechanical Engineer
Research and development projects over the last 5 years	<ul style="list-style-type: none"> • Study on Acoustic Transmission Mechanism and Transmission Loss Calculation Method of Corrugated Core Metal Sandwich Plate (as participant). Period: 2013-2016. Funding: 800,000 RMB (NSFC, 51275289) • Stiffness Design and Vibration Energy Consumption Mechanism of TBM Thrust System (as the main participant). Period: 2013-2017. Funding: 5,000,000 RMB (973 program, 2013CB035403)
Industry collaborations over the last 5 years	None
Patents and proprietary rights	A Vibration Reduction Design Method of TBM Based on Multiple Tuned Mass Dampers. Patent code: CN201710776914.0 (2017)
Important publications	<ul style="list-style-type: none"> • A study on vibration of tunnel boring machine and the induced shield tangential force. Journal of Vibration Engineering & Technologies, Vol.4, No.4, pp.373-381 (2016) • Performance Evaluation of Hard Rock TBMs considering Operational and Rock Conditions. Shock and Vibration, Vol.2018, Article ID 8798232, pp.1-17 (2018)
Activity in professional associations within the last five years	None

Name	Nai Chao, Chen
Post	Professor of School of Energy and Mechanical Engineering
Academic career	1998-2002 Anhui University of Science and Technology Bachelor in Mechanical Engineering 2003-2006 Lanzhou University of Science and Technolog Master in Mechanical Manufacture and Automation 2008-2013 Shanghai Jiaotong University PhD in Mechanical Manufacture and Automation
Employment	2002-2003 Nanjing Panda Electronic Group Assistant Engineer 2006-2008 Shanghai University of Electric Power Assistant Engineer 2008-2012 Shanghai University of Electric Power Engineer 2013-2017 Shanghai University of Electric Power Associate Professor 2018-Now Shanghai University of Electric Power Professor
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ●Fabrication and mechanic mechanism of diamond complex coating with high toughness by dispersing nano particles into coating. Period: 2018-2021. Partner: Natural science foundation of Shanghai. Funding: 200,000 RMB (Government's project) ●Damage and failure of multilayer diamond coated on insert under impact load. Period: 2015-2017. Partner: Natural science foundation of China. Funding: 250,000 RMB (Government's project). <p>Wear failure of nano diamond coating under interface contact mechanic and low friction. Period: 2015-2017. Partner: Creative science foundation of Shanghai education commission. Funding: 80,000 RMB (Government's project).</p>
Industry collaborations over the last 5 years	<p>Application prospect of stainless steel utilized in WFGD of China. Period: 2018-2020. Partner: China special steel enterprise association. Funding: 170,000 RMB</p> <p>Design and installation of gap measurement for steam turbine. Period: 2017. Partner: Huaneng Shanghai Gas power station Co., Ltd. Funding: 100,000 RMB</p> <p>Numerical simulation of pipe erosion. Period: 2015. Partner: Shanghai Zhongnuo Maritime Technology Co., Ltd. Funding: 55,000 RMB</p> <p>Design of integrate-formation numerical control spinning machine for large-scale thin-walled parts. Period: 2014-2015. Partner: Shanghai Okey</p>

	Machine Co., Ltd. Funding: 200,000 RMB
Patents and proprietary rights	<p>Controller for the steel wire length of coiling block. Patent code: ZL200610117665. (2009)</p> <p>Multi-function pump station of hydraulic wrench. Patent code: ZL200810036724.6. (2010)</p> <p>Hydraulic servo system by numerical control. Patent code: ZL201210399356.8. (2014)</p> <p>Rotated peeling machine for broad bean. Patent code: ZL201210355939.0. (2015)</p>
Important publications	<p>●Atomic structure and potential energy of β-Si₃N₄/diamond interface in the process of detachment: A first-principles study. Applied Surface Science, Vol. 434, pp. 211-214 (2018)</p> <p>Interaction potential and friction of hydrogenated diamond surfaces at the atomic scale: first-principle calculation. Journal of Materials Science, Vol. 52, pp. 1381-1389 (2017)</p> <p>Multilayer strategy and mechanical grinding for smoothing CVD diamond coated defective substrate. Materials & Design, Vol. 103, pp.194-200 (2016)</p> <p>Automatic Detection of Pearlite Spheroidization Grade of Steel Using Optical Metallography. Microscopy and Microanalysis , Vol. 22, pp. 208-218 (2016)</p> <p>Tribological behavior of HFCVD multilayer diamond film on silicon carbide, Surface and Coatings Technology, Vol. 272, pp. 66-71 (2015)</p>
Activity in professional associations within the last five years	<p>Trustee of Intelligent Manufacture and Service Session of China Creative Associate</p> <p>Senior member of China Micro- and Nano-technology Association</p> <p>National certified software engineer</p>

Name	Qing Peng, Han
Post	associate professor
Academic career	1991-1995 Yantai University , Bachelor in Chemical Engineering Specialty 1995-1998 China Agricultural University , Master in resources and environmental engineering 2002-2007, Zhejiang University , Doctor in biomedical medical engineering
Employment	1999-2010, Yangzhou University, Lecturer of Environmental college 2010-20140, University of science and technology of Liaoning, associate professor of college of mechanical engineering 2014- , Shanghai Electric Power University , associate professor of collegel of energy and mechanical engineering
Research and development projects over the last 5 years	
Industry collaborations over the last 5 years	
Patents and proprietary rights	
Important publications	<ul style="list-style-type: none"> ● State identification of ECS turbine bearing based on fractal dimension, Shock and vibration, Vol.12, No.1, pp.1-9 (2018) ● Dynamic Responses of a 2R Manipulator in Zero-gravity State Excited by Ender Impacts and Base Motions, Journal of Vibroengineering, Vol.15, No.4, pp.1665-1680 (2013)
Activity in professional associations within the last five years	

Name	Fei, Xie
Post	Lecturer
Academic career	2000-2004 Henan University of Science and Technology Bachelor in mechanical and electrical engineering 2004-2007 Henan University of Science and Technology Master in mechanical and electrical engineering 2007-2013 Shanghai University Doctor in mechanical and electrical engineering
Employment	2005- Shanghai University of Electric power Lecturer
Research and development projects over the last 5 years	<ul style="list-style-type: none"> • Research on extrusion mechanism based on FDM additive material forming technology, Period: 2015-2018, Shanghai education commission, Funding: 50,000 RMB.
Industry collaborations over the last 5 years	<p>The Software Development of Flow Design for Steam Turbine. Period: 2012. Partner: Shanghai Electric Power Generation Equipment CO.,LTD</p> <p>Processing design of heat exchange coil (unilateral) of CAP1400 circulating cooling fan set and 3D printing manufacturing. B-8102-16-117, Period: 2016.11-2017.5</p>
Patents and proprietary rights	NA
Important publications	<p>[1] Xie Fei, Zhang Hexin, Li Jianchao, The Design of PROFIBUS Detecting System Based On MSP430 Microcontroller Slave Station, Microcomputer Information, 2008,(02): 105-106</p> <p>[2] Xie Fei, Raymond Shaw, Zhang Hexin, Retractable Roof Structure and Mechanism Control System Investigation, Building Science, 2007, (09): 88-92</p> <p>[3] Xie Fei, Zhang Guoxian, Application and Analysis with Multijunction Concentrator Photovoltaics, Journal of Shanghai University of Electric power, 2016, (10):417-421.</p>
Activity in professional associations within the last five years	Member of Shanghai Mathematics Association

Name	Dan Mei, Hu
Post	Professor of College of Energy and Mechanical Engineering
Academic career	1989–1993 University of Petroleum(East China) Bachelor, Department of Machinery Engineering 1993–1996 University of Petroleum(East China) Master, College of Machinery and Electronic Engineering 2002—2006 Shanghai Jiao Tong University Ph. D., School of Mechanical Engineering
Employment	1996–2002 Lecture, University of Petroleum (East China). 2002-2011 Associate Professor ,Shanghai University of Electric Power 2011-2020 Professor ,Shanghai University of Electric Power
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ●Chaired the project “A computational model of horizontal-axis wind turbine wake for rational arrangement of wind turbine in wind farm”. Period: 2011-2013. Partner: Shanghai Education Commission. Funding: 150000 RMB ●Chaired the project “Test of Dynamic Characteristic of Wind Turbine Tower & Flow Field-CFD Simulation Analysis”. Period: 2015 -2016. Partner: The China Electric Power Research Institute. Funding: 150000 RMB ●Chaired the project “Test of Dynamic Characteristic of Wind Turbine Tower & Flow Field - Flow field Measurement of a Model Wind Turbine and its Tower”. Period: 2016-2017. Partner: the China Electric Power Research Institute. Funding: 150000 RMB ●Chaired the project “Analysis of Deep-sea Floating Wind Turbine Stability using Fluid-Structure Interaction method Based on CFD”. Period: 2018-2021. Partner: the Science and Technology Commission of Shanghai Municipality .Funding: 300000 RMB
Industry collaborations over the last 5 years	<ul style="list-style-type: none"> ●Test of Dynamic Characteristic of Wind Turbine Tower & Flow Field-CFD Simulation Analysis. Period: 2015-2016. Partner: China Electric Power Research Institute ●Test of Dynamic Characteristic of Wind Turbine Tower & Flow Field - Flow field Measurement of a Model Wind Turbine and its Tower. Period: 2016-2017. Partner: China Electric Power Research Institute
Patents and	●A Horizontal Axis Wind Turbine with Winglets. China Invention

<p>proprietary rights</p>	<p>Patent Code ZL 1563707 (2005)</p> <ul style="list-style-type: none"> ●A Single Row Crossed-Slot Fluid Dynamic Pressure Type Upstream Pumping Mechanical Seal. China Patent Code ZL 01279563 (2003) ●A Double Row Identical Fluid Dynamic Pressure Slot Type Upstream Pumping Mechanical Seal. China Patent Number Code ZL 01279564.X (2003) ●A Single Row Fluid Dynamic Pressure Slot Type Upstream Pumping Mechanical Seal. China Patent Code ZL 00239203.8 (2000) ●A Double Row Fluid Dynamic Pressure Slot Self-lubricated Non-contacting Mechanical Seal. China Patent Code ZL 00239202X (2000) ●A Small Viscous Flow Face Pump. China Patent Code ZL 00239201.1 (2000)
<p>Important publications</p>	<ul style="list-style-type: none"> ●Hu Danmei, Zhaohui Du, A Study on Stall-delay for Horizontal Axis Wind Turbine. Renewable Energy, Vol.31, No.6, pp. 821-836 (2006) ● Danmei Hu, Zhaohui Du, Near Wake of a Model Horizontal-Axis Wind Turbine. Journal of Hydrodynamics, Ser. B, Vol.21, No.2, pp.285-291 (2009) ● Hu Danmei, Zhao Hui Du, et al. Wake measurement of a model horizontal-axis wind turbine using hot-wire technique. Acta Energiæ Solaris Sinica, Vol.27, No.1, pp.7-13 (2006) ● Hu Danmei, Zhao Hui Du, et al. A study on the static stall for horizontal axis wind turbine. Acta Energiæ Solaris Sinica, Vol. 27, No.3, pp.217-222 (2006) ● Hu Danmei, Zhao Hui Du, et al. An experimental study of the wake structure of a model horizontal-axis wind turbine. Acta Energiæ Solaris Sinica, Vol. 27, No.6, pp.606-612 (2006) ● Hu Danmei, Zhang Jiangpin, Numerical simulation of the near-wake flow field of a model horizontal-axis wind turbine. Acta Energiæ Solaris Sinica, Vol. 31, No.11, pp. 1485-1490 (2010)
<p>Activity in professional associations within the last five years</p>	<p>Member of Turbine Technical Committee of China Power Engineering Associatio</p>

Name	Yang, Zhao
Post	Senior Lecturer of Physics College
Academic career	2008-2012 Kunming University of Science and Technology Bachelor in Process Equipment and Control Engineering 2013-2016 Shanghai University of Electric Power Master in Power Machinery and Engineering
Employment	2016- Shanghai University of Electric Power Experimentalist
Research and development projects over the last 5 years	<ul style="list-style-type: none"> • The Key Course Program on Function of Real Variable. Period: 2009-2010. Partner: College of Science, UNIVERSITY OF SHANGHAI FOR SCIENCE AND TECHNOLOGY. Funding: 3,000 RMB • The Key Course Program on Probability Theory & Mathematical Statistics (as participant). Period: 2008-2009. Partner: Shanghai Education Commission. Funding: 50,000 RMB (Government's project)
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications	<ul style="list-style-type: none"> •Research on Corrosion Resistance of 316L Stainless Steel by Regression Orthogonal Experiment. Journal of Hot Working Technology, Vol.46, No.22, pp.71-74 (2017) •Flue Gas Wet Desulphurization System Corrosion Environment and the Comparison of ND Steel and 316L Corrosion Resistance. Journal of Shanghai University of Electric Power, Vol.32, No.3, pp.216-220 (2016) •Application of Lithium Bromide Absorption Heat Pump to Recycle Waste Heat of Cooling Water in Power Plant. Journal of Shanghai University of Electric Power, Vol.32, No.5, pp.454-458 (2016)
Activity in professional associations within the last five years	None

Name	Hao, Wang
Post	Senior Lecturer of Physics College
Academic career	1990-1994 Jiangsu University Bachelor in automotive engineering 1994-1998 Jiangsu University Master in automotive engineering 1996-1997 Mie University in Japan Short-term overseas student in biological resources institute 2002-2006 Nanjing University of Aeronautics and Astronautics Ph.D in Mechanics
Employment	2007-2008 Cybernet System Company in Japan Engineer of Mechanics 2008- Shanghai University of Electric Power Associate Professor of College of Energy and Mechanical Engineering
Research and development projects over the last 5 years	none
Industry collaborations over the last 5 years	Power Plant Auxiliary Machinery Maintenance and Diagnosis Technical Consultation Contract, Period: 2018-2019. Partner: Huaneng (Shanghai) Power Maintenance Co., Ltd. 2019 Application for Patent and Paper Service Contract for Auxiliary Equipment of Power Plant, Period: 2019. Partner: Huaneng (Shanghai) Power Maintenance Co., Ltd.
Patents and proprietary rights	A Prediction Method of Wind Turbine Blade Airfoil Flutter, Patent code: ZL 201410059022.5(2014)
Important publications	Vibration characteristics of a rotating sandwich beam with magnetorheological fluid. Journal of Vibroengineering, Vol.17, No.1, pp.92-100 (2015) Finite element analysis of smart wind turbine blades sandwiched with magnetorheological fluid. Journal of Vibroengineering, Vol.18, No.6, pp.3858-3868 (2016)
Activity in professional associations within the	None

last five years	
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Name	Jiang, Wu
Post	Professor
Academic career	1992-1996 Nanjing University of Technology, Bachelor of silicate engineering 1996-1999 Nanjing University of Technology, Master of materials science 1999-2003 Shanghai Jiaotong University, Doctor of thermal engineering
Employment	2004-2006 Institute for combustion science and environmental technology, Western Kentucky University, Visiting scholar 2004- Shanghai University of Electric Power Professor of energy and mechanical engineering
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ●Development of deep metal removal technology of WESP. Period: 2018.5-2021.5. Partner: The ministry of science and technology of the People's Republic of China focuses on the research and development program. Funding: 550,000 RMB ●Preparation of graphene-supported sulfur-doped bismuth-based photocatalyst and its mechanism of mercury removal. Period: 2018.6-2021.5. Partner: Shanghai Natural Science Foundation. Funding: 200,000 RMB ●Study on the environmental impact of mixing and burning household waste in coal-fired power plants. Period: 2019.5-2019.12. Partner: Shanghai Environmental and Ecological Bureau. Funding: 248,000 RMB ●The second national pollution source census Shanghai special investigation of atmospheric mercury. Period: 2018.5-2018.12. Partner: Shanghai Environmental and Ecological Bureau. Funding: 640,000 RMB
Industry collaborations over the last 5 years	Research on the key technology of sludge mixing and firing. Period: 2019.07-2021.06. Partner: Shanghai Waigaoqiao No.2 Power Generation Co. LTD. Funding: 2,360,000 RMB
Patents and proprietary rights	<ul style="list-style-type: none"> ●The invention relates to an apparatus for simulating the occurrence of divalent mercury in flue gas and its application. Patent code: ZL201110287290.9 (2014) (First inventor) ●A photocatalytic device for removing mercury from flue gas and its

	<p>application. Patent code: ZL201110287212.9 (2014) (First inventor)</p> <ul style="list-style-type: none"> ●Plate photocatalytic reactor. Patent code: ZL201410238155.9 (2016) (First inventor) ●All-weather photocatalytic air purification system. Patent code: ZL201310147690.9 (2014) (First inventor) ●The invention relates to an apparatus for the determination of mercury content in different forms in coal smoke and its application. Patent code: ZL201110287287.7 (2014) (First inventor) ●Gas combined dust removal and desulfurization system. Patent code: ZL201310415449.X (2015) (First inventor) ●Smoke ash free sampling device. Patent code: ZL201110184331.1 (2016) (First inventor)
<p>Important publications</p>	<ul style="list-style-type: none"> ●Photo-catalytic control technologies of flue gas pollutants. Shanghai Jiao tong University-Springer Press, ISBN 978-981-10-8748-6 (2019) (First author) ●High-Temperature H₂S Removal from IGCC Coarse Gas. Shanghai Jiao tong University-Springer Press, ISBN 978-981-10-6817-1 (2017) (First author) ●Coal Fired Flue Gas Mercury Emission Controls. Shanghai Jiao tong University-Springer Press, ISBN 978-3-662-46346-8 (2015)(First author) ●Cu Nanoparticles Inlaid Mesoporous Carbon Aerogels as a High Performance Desulfurizer. Environmental Science & Technology, Vol.50, pp. 5370–5378 (2016) (First/Corresponding author) ●Controlling dominantly reactive (010) facets and impurity level by in-situ reduction of BiOIO₃ for enhancing photocatalytic activity. Applied Catalysis B: Environmental, Vol.232, pp. 135–145 (2018) (First/Corresponding author) ●Photocatalytic oxidation of gas-phase Hg⁰ on the exposed reactive facets of BiOI/BiOIO₃ heterostructures. Applied Catalysis B: Environmental, Vol.204, pp. 465-474 (2017)(Corresponding author) ●Fabrication of BiOIO₃ with induced oxygen vacancies for efficient separation of the electron-hole pairs, Applied Catalysis B: Environmental, Vol.218, pp. 80-90 (2017) (Corresponding author) ●Photocatalytic oxidation of gas-phase Hg⁰ by CuO/TiO₂, Applied Catalysis B: Environmental, Vol.176, pp. 559-569 (2015) (First/Corresponding author) ●Carbon decorated In₂O₃/TiO₂ heterostructures with enhanced visible-light-driven photocatalytic activity, Journal of Catalysis, Vol.355, pp. 26-29 (2017) (Corresponding author) ●Hydrothermal synthesis of carbon spheres-BiOI/BiOIO₃ heterojunctions for photocatalytic removal of gaseous Hg⁰ under visible light. Chemical Engineering Journal, Vol.304, pp.533-543 (2016) (First/Corresponding author)

Activity in professional associations within the last five years	Project evaluation expert of National Natural Science Foundation of China, Secretary general of environmental protection committee of China Institute of Power Engineering, Deputy director of clean energy committee of Shanghai Energy Research Institute.
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Name	Qun Zhi, Zhu
Post	Professor
Academic career	1991-1995 Shanghai Jiao Tong University, Bachelor in Thermal Power Engineering 1991-1995 Shanghai Jiao Tong University Master in Thermal Power Engineering 2002-2004 University of Florida, Georgia Institute of Technology, USA Ph.D in Mechanical Engineering (Thermal Science)
Employment	1998 Shanghai SEC-SIPAI Automation System Integration Company Engineer 1999-2000 Dotshell Computer System (Shanghai) Company, Engineer 2005-2006 Shanghai University of Electric Power, College of Energy and Environmental Engineering Lecturer 2006-2008 Shanghai University of Electric Power, College of Energy and Environmental Engineering Associate Professor 2008-2012 Shanghai University of Electric Power, College of Energy and Environmental Engineering Professor 2012- Shanghai University of Electric Power, College of Energy and Mechanical Engineering Professor
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ●Mechanisms of Thermal Radiative Properties of Mie-Resonance Dielectric Metamaterials. Period: 2016-2019. Sponsor: National Natural Science Foundation of China. Funding: 768,000 RMB (Government's project) ●Key Technologies of Effective Distributed Hybrid Solar PV/Thermal Systems , Period: 2018-2021. Sponsor: Shanghai Science and Technology Committee, Funding: 800,000 RMB (Government's project) ●Analysis of Current Status of Industrial Waste Heat Utilization and Technical Approach. Period: 2015-2018. Sponsor: Shanghai Science and Technology Committee, Funding: 500,000 RMB (Government's project)

Industry collaborations over the last 5 years	Research and Development of Key Technologies for Solar Photovoltaic Photothermal Composite Collector. Period: 2018-2019. Partner: Sunshore Solar Energy Co., Ltd.
Patents and proprietary rights	A Manufacturing Method of Coated Fiber Grating Gas Sensor Based on Dual Peak Resonance. Patent code: ZL 2007 10037525.2 (2010) An instrument for Measuring Thermal Radiative Properties of High Temperature Solid Particles. Patent code: CN201610694788.X (2019) A Unique Passive Solar Photovoltaic Module Cooling Device. Patent code: CN201210188749.4 (2014)
Important publications	<ul style="list-style-type: none"> ●Experimental investigation of a concentrating PV/T collector with Cu₉S₅ nanofluid spectral splitting filter, Applied Energy, Vol. 184, pp. 197-206 (2016) ●Thermal storage properties of molten nitrate salt-based nanofluids with graphene nanoplatelets, Nanoscale Research letters, Vol. 11, pp. 306 (2016)
Activity in professional associations within the last five years	Member of Concentration Solar Power, Chinese Renewable Energy Society Member of the Board of Shanghai Mechanical Engineering Society

Name	Wen Huan, Wang
Post	Engineer
Academic career	1999.9-2003.7 Northeast electric power university Bachelor in Thermal Energy and Power Engineering 2003.9-2006.4 Northeast electric power university Master in Thermal Engineering
Employment	2006.8- Shanghai University of electric power
Research and development projects over the last 5 years	
Industry collaborations over the last 5 years	1. Co-optimization of Boiler Low Nitrogen Combustion and Denitrification Based on Cost Optimum. Period: 2015.12-2016.12 Partner: Huaneng International Power Co., Ltd. Shanghai Shidongkou No. 1 Power Plant 2. Energy Audit of Steam Turbine Plant of Shanghai Electric Power Plant Equipment Co., Ltd. Period: 2017.11-2018.2 Partner: Shanghai Electric Power Station Quipment CO., LTD. 3. Energy Audit of Power Plant of Auxiliary engine of Shanghai Electric Power Plant Equipment Co., Ltd. Period: 2017.11-2018.2 Partner: Shanghai Electric Power Station Quipment CO., LTD. 4. Energy Audit of Generator Plant of Shanghai Electric Power Plant Equipment Co., Ltd. Period: 2017.11-2018.2 Partner: Shanghai Electric Power Station Quipment CO., LTD.
Patents and proprietary rights	
Important publications	A CeFeOx catalyst for catalytic oxidation of NO to NO2. Journal of Rare Earths, 2016, 34(9):876-881
Activity in professional associations within the last five years	

Name	Zai Guo, Fu
Post	Associate Professor of College of Energy and Mechanical Engineering
Academic career	2001-2005 Yangtze University Bachelor in Petroleum Engineering 2008-2011 China University of Petroleum Master in Oil&Gas Storage and Transportation Engineering 2012-2015 Tokyo University of Science Ph.D in Mechanical Engineering
Employment	2005-2008 Yangtze University Assistant Professor 2011-2012 Yangtze University Lecturer of Petroleum Engineering College 2015-2017 Shanghai University of Electric Power Lecturer of of College of Energy and Mechanical Engineering 2017- Shanghai University of Electric Power Associate Professor of College of Energy and Mechanical Engineering
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ● Research on the Demand of Engineering Professionals in Universities for New Energy Power Generation Industry. Period: 2017-2019. Partner: Ministry of Education Energy and Power Engineering Specialty Steering Committee. Funding: 20,000 RMB (Government's project)
Industry collaborations over the last 5 years	Thermal Performance Analysis Method for Special Concrete and Its Heat Storage Module. Period: 2018-2019. Partner: Nantong Xinfan New Building Materials co., LTD
Patents and proprietary rights	Preparing Device for Viscoelastic High-Molecular Polymer Solution. Patent code: ZL 201710329579.X. (2018)
Important publications	<ul style="list-style-type: none"> ● Characteristic Turbulent Structure of a Modified Drag-Reduced Surfactant Solution Flow via Dosing Water from Channel Wall. International Journal of Heat and Fluid Flow, Vol.53, pp.135-145 (2015) ● Instructional Guide for Experiments in Fluid Mechanics. China University of Petroleum Press, ISBN 978-7-5636-3662-4 (2012)
Activity in	

professional associations within the last five years	
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Name	Hong Lei, Ding
Post	Associate Professor
Academic career	1986-1990 China University of Petroleum (East China) Bachelor 1994-1997 China University of Petroleum (East China) Master 2005-2010 Zhejiang University PHD
Employment	1990-2004 China University of Petroleum (East China) Teacher 2010-2013 Zhejiang University Postdoctor 2013- Shanghai University of Electric Power Teacher
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ●National Key R&D Program. Period: 2018-2020. Partner: Minister of Science and Technology. Funding: 300,000 RMB ●Shanghai Scientific Research Program. Period: 2015-2017. Partner: Shanghai Science and Technology Commission. Funding: 270,000 RMB .
Industry collaborations over the last 5 years	
Patents and proprietary rights	
Important publications	<p>Numerical simulation of the near- wake flow field of a horizontal-axis wind turbine (HAWT) model, Journal of Vibro- engineering. 2016, 18: 3258-3268. (Corresponding author)</p> <p>Recent advances of CO₂ conversion based on DBD. Proceedinga of the CSEE. 2019, 39(24): 7242-7252. (Corresponding author)</p>
Activity in professional associations within the	

last five years	
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Name	Wei, Qiu
Post	Lecturer of ShangHai University of Electric Power
Academic career	1996-2000 TongJi University Bachelor in Technology of Refrigeration and Low Temperature 2000-2002 Harbin Institute of Technology Master in Engineering of Heat Energy
Employment	2002-2008 ShangHai College of Electric Power Lecturer of Higher Vocational College 2008-2019 ShangHai College of Electric Power Lecturer of College of Energy and Mechanical Engineering 2019- ShangHai University of Electric Power Lecturer of College of Energy and Mechanical Engineering
Research and development projects over the last 5 years	
Industry collaborations over the last 5 years	
Patents and proprietary rights	
Important publications	
Activity in professional associations within the last five years	

Name	Bing Hui, Wu
Post	Associate Professor of Energy and Mechanical Engineering College
Academic career	1991-1995 Jiamusi Institute of Technology Bachelor in Engineering 2000-2002 Harbin Institute of Technology Master in Engineering 2002-2008 Harbin Institute of Technology Doctor in Engineering
Employment	1995-2000 Hydraulic Turbine Structural Group, Product Design Department, Harbin Electric Machinery Works Co., Ltd. Assistant Engineer 2002-2009 Harbin Institute of Technology Lecturer of Mechanical and Electrical Engineering College 2009- Shanghai University of Electric Power Associate Professor of Energy and Mechanical Engineering College
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ●Interactive Projects Procedure and Structural Design of Taoli Chunfeng Exhibition Hall. Period: 2016-2017. Partner: Shanghai Siguan Advertising Co., Ltd. Funding: 3,0000 RMB ● The Key Course Program on Probability Theory & Mathematical Statistics (as participant). Period: 2008-2009. Partner: Shanghai Education Commission. Funding: 50,000 RMB (Government's project)
Industry collaborations over the last 5 years	
Patents and proprietary rights	
Important publications	<ul style="list-style-type: none"> ●Mechanics Analysis of Reduction Case Based on the Finite Element Method. Applied Mechanics and Materials Vol. 574 (3) : 3-7;EI: 20143418082289 ●Design and Research of Synchronous-style Clamping Mechanism for Cable-detecting Robot. Advanced Materials Research. Vol. 1028 (127) : 127-133.EI: 20144900276257
Activity in professional	Director of Shanghai Graphics Society Member of Digital

associations within the last five years	Design and Manufacture Committee of China Graphics Society
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Name	Xin Feng, Dong
Post	Lecturer, College of Energy and Mechanical Engineering
Academic career	2011/09-2015/05: Tongji University, School of Mechanical and Energy Engineering, Major in Mechanical Manufacturing and Automation, Ph.D.
Employment	2015/07-now : Shanghai Electric Power University, Mechanical Engineering Major, School of Energy and Mechanical Engineering, mechanical engineering.
Research and development projects over the last 5 years	Shanghai University Youth Teacher Training Fund Project, 50,000 RMB, No. Z2016-071, responsible person
Industry collaborations over the last 5 years	The State Grid Science and Technology Project (SGRI-WD-71-15-010), a participant in the new technology research on earthquake prevention and disaster reduction of high voltage equipment in substations.
Patents and proprietary rights	Dong Xinfeng, Calculating Method of Tooth Radius Error of Two-Tooth Helical End Milling Cutter, Invention Patent, No. 201711204940.2
Important publications	Xinfeng Dong*, Zhang W. Stability analysis in milling of the thin walled part considering multiple variables of manufacturing systems[J]. International Journal of Advanced Manufacturing Technology,2017. 89(1):515-527 SCI Xinfeng Dong*, Zhang W. Chatter identification in milling of the thin-walled part based on complexity index[J]. International Journal of Advanced Manufacturing Technology, 2017.DOI 10.1007/s00170-016-9912-6. SCI Xinfeng Dong*, Weimin Zhang,etal. The estimation of cutting force coefficients in milling of thin-walled parts using cutter with different tooth radii[J]. Proc IMechE Part B: journal of engineering manufacture, 2016.Vol.230(1):194-199. SCI Xinfeng Dong*, Weimin Zhang,etal. The reconstruction of a semi-discretization method for milling stability prediction based on Shannon standard orthogonal basis[J]. International journal of advanced manufacturing technology, 2016. 85:1501-1511. SCI
Activity in professional associations within the	Reviewers of Proc IMechE Part B: Journal of Engineering Manufacture, International Journal of Advanced Manufacturing Technology ,

last five years	Mechanical Systems and Signal Processing.
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Name	Jian Hua, Weng
Post	Associate Professor of School of Energy and Mechanical Engineering
Academic career	1985-1989 Southeast University Bachelor in Thermal Engineering 1989-1992 Southeast University Master in Engineering Thermophysics 1992-1995 Chinese Academy of Space Technology Ph.D in Spacecraft Design(Specialized in: Thermal Control)
Employment	1995-1998 Tongji University Lecturer of Thermal Engineering Department 1999-2006 Fairchild Co. LTD Senior R&D Engineer of Optoelectronic Product Division 2008- Shanghai University of Electric Power Associate Professor of School of Energy and Mechanical Engineering
Research and development projects over the last 5 years	Study of Heat Transfer Process in Refrigerator with Microchannel Recuperator (as participant). Period: 2014-2017. Partner: Shanghai Natural Science Foundation. Funding: 100,000 RMB (Government's project)
Industry collaborations over the last 5 years	Measurement Verification of Flow Rate of Air for Heat Exchanger Test Setup. Period: 2015-2016. Partner: Shanghai Delang Automobile Parts Manufacturing Co. LTD
Patents and proprietary rights	None
Important publications	<ul style="list-style-type: none"> ● Heat Transfer Performance of Pulsating Pipe with Hygroscopic Salt Solution. CIESC Journal, Vol.70, No.3, pp.874-882 (2019) ● Theoretical and Experimental Study on the Thermal Network Method for Temperature Prediction in a Car. Journal of University of Shanghai for Science and Technology, Vol.40,No.6,pp. 552-556 (2018) ● Experimental Investigation of Gas Throttling in Microchannels for Electronic Cooling. 16th International Heat Transfer Conference, IHTC16-21954, Beijing(Aug 10-15 ,2018)
Activity in professional	None

associations within the last five years	
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Name	Cheng Yao, Wang
Post	Lecturer of Energy and Mechanical Engineering College
Academic career	2006-2010 Southeast University Bachelor in Thermal and Power Engineering 2010-2016 Southeast University Doctor in Power Engineering and Engineering Thermophysics
Employment	2016- Shanghai University of Electric Power Lecturer of Energy and Mechanical Engineering College
Research and development projects over the last 5 years	<ul style="list-style-type: none"> • The exploration and practice on the ideological and political education in Principles of Boiler course. Period: 2018.1-2019.12. Funding: 40,000 RMB (Government's project)
Industry collaborations over the last 5 years	
Patents and proprietary rights	
Important publications	
Activity in professional associations within the last five years	

Name	Zhi Hai, Cheng
Post	Senior Professor of Energy and Mechanical Engineering College
Academic career	2002-2007 University of Shanghai for Science and Technology Master & Doctor in Thermal Engineering
Employment	1997-2002 Shanxi Yangguang Power Generation Co., Ltd 2007-2014 Shanghai Power Equipment Research Institute Boiler Research Institute 2014- Shanghai University of Electric Power College of Energy and Mechanical Engineering
Research and development projects over the last 5 years	<ul style="list-style-type: none"> • The Key Course Program on Function of Real Variable. 600MW Pure Burning Zhundong Coal Boiler Development. Period: 2015-2018. Partner: Ministry of science and technology. Funding: 160,000 RMB(Government's project)
Industry collaborations over the last 5 years	<ul style="list-style-type: none"> •Boiler combustion and coordinated control logic optimization,Period: 2014. Partner: Mondong energy company, Funding: 750,000 RMB •Research On Supercritical Unit AGC Operation Optimization Technology, Period: 2015. Partner: Shanxi Wangqu Power Generation Co., Ltd, Funding: 835,000 RMB •DCS control system optimization, Period: 2016. Partner: Guizhou Dafang Power Generation Co., Ltd, Funding: 320,000 RMB
Patents and proprietary rights	<ul style="list-style-type: none"> •Pulverized coal bias flame combustor with adjustable primary wind speed.Patent code: ZL 2014 1 0065586.X(2014)
Important publications	<ul style="list-style-type: none"> •FLOW FIELD AND AMMONIA SPRAYING OPTIMIZATION OF SCR DENOX SYSTEM WITH VARIABLE CROSS SECTION IN 600MW COAL-FIRED UNIT , Environmental Engineering ,2017,35(10):95-99. •Study of the deactivation of SCR DeNO_x catalyst in large-sized coal-fired power unit, Energy Research and Information ,2016,32(04):221-225.
Activity in professional associations within the	

last five years	
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Name	Zhong Zhu, Qiu
Post	Professor for Energy and Power Engineering
Academic career	Ph. D, Tongji University, China. Apr 1999 – Mar 2002 Subject: Thermal Energy Engineering MSc, Tongji University, China. Sep 1996 – Mar 1999 Subject: Thermal Energy Engineering BEng: Qingdao Institute of Architectural and Engineering, China. Sep 1988 – Jul 1992, Dept. of Environment Engineering Subject: HVAC Engineering
Employment	Professor, Vice Dean of College of Energy and Power Engineering, Shanghai University of Electrical Power, China, Dec.2016-Now Professor, Director of Thermal and Power Engineering Division, Shanghai University of Electrical Power, China, Sep.2015-Nov.2016 Research fellow, School of Engineering, University of Hull, UK, Dec. 2014-Aug. 2015
Research and development projects over the last 5 years	Thermal variation property in the furnace of ultra super critical boiler(2018YFB060440204) , Period:2018.5-2021.4. Supported by Department of Science and Technology of China. Funding value:600,000RMB, Coordinator Development and design of a novel energy storage equipment (17DZ1201504), Period:2017.7.1-2020.6.30, Supported by Science and Technology Commission of Shanghai , Funding value:300,000RMB , Coordinator Investigation of key technologies on the efficient distributed solar PVT co-generation system (18020501000) , Period:2018.5.1-2021.4.30 , Supported by Science and Technology Commission of Shanghai ,Funding value:800,000RMB, Major investigator Fabrication and features of multiple nano particles synthesized Microencapsulated PCM (17ZR1411300) , Period:2017.5-2020.4 , Supported by Science and Technology Commission of Shanghai ,Funding value:200,000 RMB, Coordinator
Industry collaborations over the last 5 years	Design and construction of the phase change experimental rig , Period:2018.7.1-2019.6.30 , Supported by Shanghai Boyon new energy technology company ltd,Funding value:406000RMB, Coordinator Survey on the natural gas based distributed energy equipment and projects , Period:2018.8.1-2018.12.31 , Supported by Shanghai gas engineering design and research company ltd ,Funding value:18 0,000 , Coordinator
Patents and proprietary rights	A Manufacturing process of reflection mirror of a parabolic trough applying metal sheet. Patent code: ZL 2012 10100049.5 (2012)

<p>Important publications</p>	<p>Zhongzhu Qiu^T, Yufei Zhou, Yuan Yao, Fang Liu, Ruitang Guo^T. Modification of microencapsulated phase change materials(MPCMs) by synthesizing graphene quantum dots(GQDs) and nano-aluminum for energy storage and heat transfer applications, Energy, 2009, 181: 1331-1338. SCI, IF 4.2.</p> <p>Zhongzhu QIU, Chengfang QIN, Li PENG, Xudong ZHAO, Tao ZHANG, Zhengwei LI, Chunying LI, Yurou ZHENG. Physical instability suppression of microencapsulated phase change material(MPCM) suspensions [J]. Journal of Thermal Science and Technology, 2018, 13(2):1-3, SCI, IF 0.791.</p> <p>Zhongzhu QIU*, Chengfang QIN, Weiting JIANG, Puyan ZHENG, Tao ZHANG, Chengyao WANG, Chunying LI. Impact of microcapsules wettability on thermal conductivity of microencapsulated phase change material (MPCM) suspensions [J]. Journal of Thermal Science and Technology, 2018, 13(1):1-8, SCI, IF 0.791.</p> <p>Zhongzhu Qiu, Xiaoli Ma, Peng Li, Xudong Zhao*, Andrew Wright, Micro-encapsulated phase change material (MPCM) slurries: Characterization and building applications, Renewable and Sustainable Energy Reviews, 2017,77: 246-262, SCI,IF 8.1</p> <p>Zhongzhu Qiu, Xiaoli Ma, Xudong Zhao*, Peng Li, Samira Ali. Experimental investigation of the energy performance of a novel Microencapsulated Phase Change Material (MPCM) slurry based PV/T system[J]. Applied Energy, 2016, 165:260–271, SCI, IF 7.2</p> <p>Zhongzhu Qiu, Xudong Zhao*, Peng Li, Xingxing Zhang, Samira Ali. Theoretical Investigation of the Energy Performance of a Novel MPCM Slurry Based PV/T Module[J]. Energy,2015, 87:686-698. SCI, IF 4.2。</p>
<p>Activity in professional associations within the last five years</p>	<p>Member of Shanghai Solar Energy Association</p> <p>Member of Chinese Power Engineering Association</p>

Name	Jian Feng, Lu
Post	Lecturer
Academic career	1981.9-1985.7 Southeast University Thermal Power Bachelor's degree
Employment	1985.7- Shanghai University of Electric Power College of Energy and Mechanical Engineering
Research and development projects over the last 5 years	
Industry collaborations over the last 5 years	
Patents and proprietary rights	
Important publications	
Activity in professional associations within the last five years	

Name	Du, Wang
Post	Associate Professor
Academic career	1997-2001 Southeast University Bachelor in Thermal and power engineering 2003-2006 Southeast University Master in Thermal and power engineering
Employment	2001-2002 Changzhou Astor Air Conditioning Co., Ltd engineer 2002-2003 Changzhou Boiler Co., Ltd engineer 2006- present Shanghai University of Electric Power teacher
Research and development projects over the last 5 years	Research and development of pressure control system for distributed energy station simulation based on energy accumulator, Shanghai Science and Technology Committee ¥200000 in 2015-2016
Industry collaborations over the last 5 years	Formulation of low load operation optimization plan of Huaneng Changxing Power Plant Unit (2016-2017): ¥182000 Construction of app based skills palm learning platform of Huaneng Changxing Power Plant 2017-2018 ¥170000 Construction of mobile based skills learning platform in power plant ¥100000 in 2019-2020
Patents and proprietary rights	
Important publications	Course design of thermal power plant, China Electric Power Press, 2018
Activity in professional associations within the last five years	

Name	Ping, He
Post	Associate Professor
Academic career	1997–2001, Northeast Petroleum University Bachelor in Machinery Manufacturing Process and Equipment 2003-2006, Zhejiang University Master in Thermal Power Engineering 2009-2017, Shanghai Jiao Tong University Doctor in Thermal Power Engineering
Employment	2001-2002, KINGDREAM PUBLIC LIMITED COMPANY 2006- , College of Energy and Mechanical Engineering, Shanghai University of Electric Power
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ● Removal Mechanism of Zero-valent Mercury in Flue Gas by Magnetically Induced Fly Ash from Coal-fired Power Plant. Period: 2017-2019. Support: National Natural Science Foundation of China National Natural Science Foundation Youth Fund Project, 51606115. Credit: main in-charge. Funding: 210,000 RMB. ● Removal mechanism of zero-valent mercury in flue gas by fly ash from coal-fired power plant under magnetic field. Period: 2016-2019. Support: Shanghai Science and Technology Commission, Shanghai Natural Science Foundation Project, 16ZR1413500. Credit: main in-charge. Funding: 200,000 RMB. ● Development of WESP heavy metal deep removal technology. Period: 2018-2021. Support: Ministry of Science and Technology, National Key R & D Program Sub-Project, 2018YFB0605103-4. Credit: participant. Funding: 550,000 RMB. ● Preparation of Graphene-supported Sulfur Doped Bismuth-based Photocatalyst and Its Mercury Removal Mechanism. Period: 2018-2021. Support: Shanghai Science and Technology Commission, Shanghai Natural Science Foundation, 18ZR1416200. Credit: participant. Funding: 200,000 RMB.
Industry collaborations over the last 5 years	
Patents and proprietary rights	<ul style="list-style-type: none"> ● Ferromanganese-cerium adsorbent for mercury removal and preparation method. Condition: Application (2018.7.2). Patent code: 201810719600.1 ● Molybdenum-based adsorbent for mercury removal and preparation method. Condition: Application (2018.3.23). Patent code: 201810246023.9 ● Molybdenum-based material doped fly ash adsorbent for mercury removal and preparation method. Condition: Application (2019.8.22). Patent code: 201910776989.8 ● Preparation method of a mercury removal adsorbent with core-shell

	structure. Condition: Application (2019.10.23). Patent code: 201911012730.2
Important publications	<p>(1) Qin Huang, Ping He (*), Theoretical study of hydrocarbon functional groups on elemental mercury adsorption on carbonaceous surface, Chemical Engineering Journal, 2020.</p> <p>(2) Ping He (#)(*), Zhongzhi Zhang, Xianbing Zhang, Jiang Wu, Naichao Chen, Gaseous Elemental Mercury Capture By Novel Copper-Doped (Fe_{2.2}Mn_{0.8})(1)O₄ Adsorbents, Surface Review and Letters, 2019.6,26(5): 0~1850195.</p> <p>(3) Ping He (#)(*), Zhongzhi Zhang, Xiaolong Peng, Jiang Wu, Naichao Chen. Mercury capture by manganese modified copper oxide. Journal of the Taiwan Institute of Chemical Engineers.2018,85:201-206.</p>
Activity in professional associations within the last five years	Reviewer of Applied Surface Science

Name	Feng Jiao, Liu
Post	assistant research fellow
Academic career	2008-2012 Hebei University of Engineering Bachelor in Thermal energy and power engineering 2012-2015 Shanghai University of Electric Power Master in Thermal and power engineering
Employment	2015-2019 Shanghai University of Electric Power, administration 2019- present Shanghai University of Electric Power, Laboratory Technician
Research and development projects over the last 5 years	
Industry collaborations over the last 5 years	
Patents and proprietary rights	
Important publications	
Activity in professional associations within the last five years	

Name	Hai Long, Liu
Post	Assistant Experimentalist
Academic career	2005-2009 Hehai University Bachelor in Thermal and power engineering 2009-2012 University of Shanghai for Science and Technology Master in Thermal and power engineering
Employment	2012-2014 Shanghai Power Equipment Research institute CO.,LTD engineer 2014- present Shanghai University of Electric Power Experimentalist
Research and development projects over the last 5 years	
Industry collaborations over the last 5 years	Consulting Service for SIS application of thermal power plant(2016-2017): ¥ 50,000
Patents and proprietary rights	
Important publications	
Activity in professional associations within the last five years	

Name	Yong Wen, Yang
Post	lecturer
Academic career	1999-2003 Bachelor degree in Electronic Information Engineering, Nanjing University of Technology; 2003-2006 Postgraduate Degree in Environmental Engineering, City University of North Kyushu, Japan; 2006-2009 Ph.D. in Environmental Engineering, University of North Kyushu, Japan.
Employment	2009-present Shanghai Electric Power University Teacher
Research and development projects over the last 5 years	Basic Research on Intelligent Control of Environmental Control Systems in Typical Large Space Buildings, Shanghai Science and Technology Commission ,2019-2022; Comprehensive Modeling and Evaluation Methods for Regulating Capacity of Important Load Safety and Security Resources, Shanghai Science and Technology Commission ,2018-2021; Technology Demonstration of Integrated Renewable Energy Microgrid for Electric Vehicles, Global Environment Facility (GEF).
Industry collaborations over the last 5 years	"R & D and Test of Control System of Large-scale Comprehensive Energy Station", "Development and Research of Distributed Photovoltaic Collaborative Experimental Platform in Smart Energy Microgrid", "Shanghai Wuli Real Estate Commercial Complex Energy Consumption Model and Annual Energy Consumption Forecast Study", " Smart Campus BIM System Model Development Research Project ", " Anhui Industrial Park and Hospital Natural Gas Distributed Energy Project Planning and Design", " Technical Integration and Application of Distributed Energy Center Based on Four Combined Supply "
Patents and proprietary rights	No
Important publications	No
Activity in professional associations within the last five years	No

Name	Wei Ting, Jiang
Post	Associate processor
Academic career	1998.9- 2002.6 Shanghai University of Electric Power Bachelor in Thermal Engineering 2002.9-2009.9 Shanghai Jiaotong University Master and Doctor in Refrigeration Engineering
Employment	2009.9- Shanghai University of Electric Power Senior Lecturer, Associate processor
Research and development projects over the last 5 years	<ul style="list-style-type: none"> ● Advanced technology research and comprehensive demonstration of industrial low-grade waste heat utilization. Period: 2015-2018. Partner: Shanghai Science and Technology Commission Funding: 300,000 RMB ● Development of Distributed Energy System for Megawatt Gas Turbine Period: 2018-. Partner: Shanghai Science and Technology Commission Funding: 300,000 RMB
Industry collaborations over the last 5 years	<ul style="list-style-type: none"> ● Feasibility Study on Rubber Powder Coupling Power Generation Period: 2019-. Partner: Waigaoqiao No.3 Power Plant Funding: 40,000 RMB
Patents and proprietary rights	Paint thermal resistance tester and test method. Patent code: ZL 2017 1 0377945.9 (2019)
Important publications	<ul style="list-style-type: none"> ● Refrigeration and air conditioning construction technology. China Machine Press, 2013.
Activity in professional associations within the last five years	Deputy Secretary-General of Shanghai Industrial Energy Conservation Alliance