

Low-carbon Cities & Urban Energy

SHANGHAI June 5-7, 2018

Applied Energy Symposium and Forum



www.applied-energy.org/cue2018





Autumn, 2018

Call For Papers

i ca e

Deadline for draft paper: Jun. 30, 2018 Notification of acceptance: Aug. 1, 2018 Deadline for final paper: Sept. 1, 2018

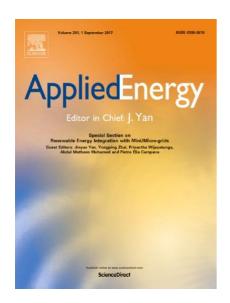
Topics

- High penetration of renewable energy
- Mini/microgrid
- Technology Innovation
- Implementation
- Commercialization
- Financing & policy

Special Issue of selected papers from REM2018 will be published in prestigious journals including Applied Energy (IF:7.182)

Contents

- Welcome to CUE2018
- Acknowledgments
- Committees
- Keynote Speakers
- Young Scholar Forum
- Scholarly Publication
- Practical Guide
- Venues Information
- Site Visits
- Program at a Glance
- Oral Presentations
- Poster Presentations
- Note



SUPPORTS OPEN ACCESS

Applied Energy offers authors the option to publish papers open access.

Applied Energy

Applied Energy provides a forum for information on innovation, research, development and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, analysis and optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems. The breadth of coverage ranges from innovative technologies and systems of both fossil and renewable energy to the economic industrial and domestic use of energy with no or minor impact on the environment. Applied Energy is also concerned with the attendant problems of modeling and forecasting, conservation strategies, and environmental, social and economic impacts of energy policies and usage, including climate change mitigation and other environmental pollution reduction.

Editor-in-Chief

Jinyue Yan

KTH Royal Institute of Technology, Stockholm, and Mälardalen University, Västerås, Sweden Personal homepage:

Editors

Siaw-Kiang Chou

National University of Singapore, Singapore

Umberto Desideri

Università di Pisa, Pisa, Italy

Associate Editors

Ashwani Gupta Shan-Tung Tu Hongguang Jin Yi-Ming Wei Markus Kraft Hong-xing Yang Anthony Roskilly Kunio Yoshikawa

Subject Editors

Luisa F. Cabeza

Dabo Guan

Tariq Shamim

Ottorino Veneri

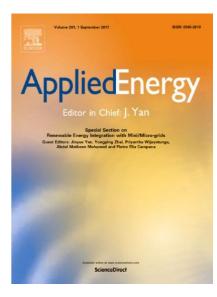


Visit the journal homepage:

http://www.journals.elsevier.com/applied-energy/



Over 13,500 papers published, with authors from almost 120 countries



Cite Score: 7.78*
Impact Factor: 7.182**

Reasons to publish in Applied Energy

- Ranked 1st out of 58 in Energy*
- Ranked 4th in Engineering, Chemical and 6th in Energy & Fuels**
- 3.3 million articles downloaded in 2016 (375 per hour)
- Publication on ScienceDirect, used by over 12 million scientists, researchers, students and professionals worldwide
- No submission fee, page charges or online colour costs
- Simplified submission process with Your Paper, Your Way initiative
- Open access option available
- Access in the developing world through Research 4Life



*Published by Scopus 2016
**Journal Citation Reports (Clarivate Analytics, 2017)



Submit now at:

Welcome to CUE2018



Welcome to CUE2018-Applied Energy Symposium and Forum 2018: Low carbon cities and urban energy systems.

Cities are responsible for approximately three-quarters of the world's energy consumption and they therefore play a major role in energy issues such as economic security and climate change. The CUE2018, with theme of "Cleaner Energy for Cleaner City", is to provide a platform focused on urban energy systems, covering the topics of energy supply, distribution, and end use; smart eco-cities, urban transportation with efficient energy and low emissions; microgrid and smart home; BIPV and renewable applications; urban waste to energy; nexus of energy-water; policy options etc.

The event consists of two-day symposium for sharing the most recent progress of research in urban energy systems and one-day forum to engage all stakeholders for discussing how future urban energy systems can be implemented.

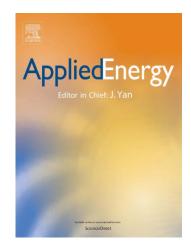
The CUE2018 is organized by the international journal, Applied Energy, Applied Energy Innovation Institute (AEii), Tongji University, China Association for Science and Technology (CAST)/HOME program, and co-organized by Future Energy Profile/Mälardalen University Sweden, Shanghai Key Lab of Urban Regeneration & Spatial Optimization Technology, and MOE Joint Laboratory for International Cooperation on Eco-Urban Design.

We are looking forward to meeting you in Shanghai, China.

Prof. J. Wu Prof. J. Yan

Vice President of Tongji University Editor-in-chief of Applied Energy

Acknowledgements

























International Conference on Applied Energy



上海城市更新和空间优化技术重点实验室 Shanghai Key Lab of Urban Regeneration & Spatial Optimization Technology

教育部生态城市设计国际合作联合实验 MOE Joint Laboratory for International Cooperation on Eco-Urban Design



Applied Energy New Section: Progress in Applied Energy

AppliedEnergy
Editor in Chief J. Yan

Editor-in-Chief **Professor J. Yan**

Impact Factor: 7.182 ii

Cite Score: 7.78 i

The internationally-renowned journal *Applied Energy* is launching a new section - *Progress in Applied Energy*, which will bridge the gap between development and implementation, focusing:

- On fast-paced, cutting-edge research from forward looking aspects of energy innovations
- On renewable energy and clean technology
- From energy efficiency to climate change mitigation

As the world strives to meet the shared targets of combating climate change and providing sustainable energy access for all, there is a critical need for timely and rapid publication of new energy solutions.

Progress in Applied Energy is the best platform to address these issues, at a time when there is societal pressure to come up with breakthroughs.

What are we looking for?

- Papers must present ground-breaking insights to the field, which will have a positive impact on society, and excite and inspire readers
- Review articles will provide a comprehensive view of the latest trends, bridging scientific frontiers

Why submit to our new section?

Submit and be part of the change in shaping the future of energy research as this new section:

- Provides a home for top scientists and engineers to publish high quality papers
- Fast-tracks papers to reach researchers as quickly as possible
- Offers benefits to authors with articles receiving extra promotion

i Published by Scopus 2016 /

ii 2016 Journal Citation Reports (Clarivate Analytics, 2017)

FIND OUT MORE: elsevier.com/locate/apenergy

Committees

CONFERENCE CHAIRS

Prof. J. Wu (Co-Chair) Prof. J. Yan (Co-Chair)

ORGANIZING COMMITTEE

Prof. Erik Dahlquist (Co-chair) Prof. Q. J. Shen (Co-Chair)

Prof. H. Yu Prof. P. Yang Prof. Y. Chen
Prof. Y.G. Chen Dr. F. Wahllin Dr. H.L. Li
Dr. H.T. Wang Dr. J. Peng Dr. J. Yan
Dr. J.C. Feng Dr. P.E. Campana Dr. R. Guo
Dr. X. Wang Dr. Y.X. Lu Dr. Z.W. Li

SECRETARIAT

Ms. H. Ma Dr. H.X. Meng Ms. J. Sun

Ms. L. Liu Ms. Q. Jia Ms. W. Nookuea Mr. Y. Zhang Ms. Y. Yang Mr. Y.T. Tan

Ms. Z.D. Wang

H.M. Xu, UK

H.X. Yang, Hong Kong

INTERNATIONAL SCIENTIFIC COMMITTEE

Prof. J. Yan (Chair) Editor-in-Chief, Applied Energy

Prof. S.K. Chou (Co-Chair) Editor, Applied Energy

Prof. U. Desideri (Co-Chair) Editor, Applied Energy

A. L. Neumann, Spain I. Dincer, Canada O. Veneri, Italy
A. Meier, USA J. Goldenberg, Brazil P. de Wilde, UK
A.F. Massardo, Italy J. Hetland, Norway P. Lund, Finland

A.J. Conejo, USA J. Milewski, Poland P. Yang, USA

A.K. Gupta USA J. Schoonman, Netherlands R. Madlener, Germany

A.P. Roskilly, UK J. Whalen, Canada R. Span, Germany
B. Chen, China J. Wu, China S. Campanari, Italy
B. Stigson, Switzerland J.H. Wang, USA S. Cordiner, Itlay

C. Rakopoulos, Greece J.K. Kaldellis, Greece S. Deng, Hong Kong

C.S. Wang, China J.S. Zhang, China S.A. Kalogirou, Cyprus C.S. Wang, Singapore J.Z. Wu, UK S.T. Tu, China

D. Chiaramonti, Italy K. Hubacek, USA S.V. Garimella, USA

D. Guan J.K.

Voshikawa Japan

T. Shamim J.SA

D. Guan, UK K. Yoshikawa, Japan T. Shamim, USA
D.J. Lee, Taiwan L. Kazmerski, USA T. Tezuka, Japan

D.K. Zhang, Australia L. Mundaca, Sweden T.B. Johansson, Sweden E. Dahlquist, Sweden L.F. Cabeza, Spain W.H. Chen, Taiwan F.C. Sun, China M. Beer, USA X.G. Li, Canada

G. Hammond, UK M. Kraft, UK X.H. Xia, South Africa

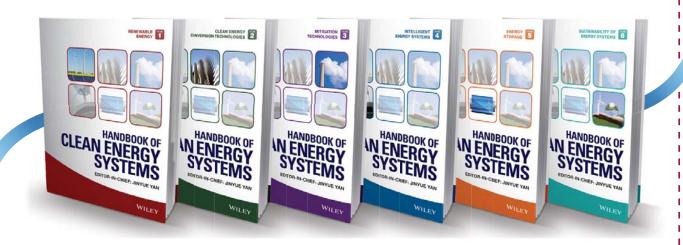
G. Strbac, UK M. Obersteiner, Austria Y. L He, China
H Sun, China M. Sorrentino, Italy Y. Yamagata, Japan
H. Lund, Denmark M.K.H. Leung, Hong Kong Y.C. Leung, Hong Kong

H. Lund, Denmark M.K.H. Leung, Hong Kong Y.C. Leung, Hong Kong
H.G. Jin, China N. Duic, Croatia Y.M. Wei, China
H.L. Li Sweden N. Hedin, Sweden Z. Luo, China

N. Jenkins, UK

N. Zhou, USA

Are you working on the challenging issues associated with the development of our future energy systems?



See how this new reference can help!

Find news, sample content and more at: wileyonlinelibrary.com/ref/hces

WILEY-VCH

WILEY

Keynote Speakers



Prof. S.K. Chou

National University of Singapore, Singapore

Keynote: Thermal Performance of Building Envelopes for Improved Energy Efficiency

Buildings are energy intensive, and the starting point to achieve energy efficiency is to address the thermal performance of their envelopes. In tropical climates, air-conditioned buildings in cities can account for more than 30% of the total electrical energy consumption. A typical airconditioned building operates with a moderate temperature difference varying from about 6 to 12oC between outdoor and indoor, and air conditioning can account for more than 50% of the energy consumption of the building. In this presentation, we report on the recent effort to develop an enhanced method to credit the energy performance of buildings by accounting more precisely for the heat gain streams through the building envelope. Our study is motivated by new technology and improved fenestration insulation such as the thermally broken window frame. We developed new correlations to account for the thermal performance of improved window components and systems. The methodology enables investigations of the impact on building cooling energy arising heat flows through window components and frames. The enhanced method is incorporated into the existing Envelope Thermal Transfer Value (ETTV) and the Residential Envelope Transmittance Value (RETV) formulations, which are necessary criteria in the Singapore Green Mark mandatory certification scheme. With the enhanced ETTV and RETV criteria, the refreshed envelope energy standard offers opportunities and better incentives for the adoption of "green" and energy efficient technology towards achieving sustainable building energy performance.

Bic

Prof. S.K. Chou is a professor at the Department of Mechanical Engineering, National University of Singapore. Between 1992 and 2007, he held consecutive appointments as Director, Industry and Technology Relations Office, Head of the Department of Mechanical Engineering, and Vice-Dean (External and Industry Relations) of the Faculty of Engineering. Professor Chou was the founding executive director of the Energy Studies Institute, established in 2007 at NUS, where he held a joint appointment till June 2017. S.K. Chou is Honorary Fellow and Past President of the Institution of Engineers (IES), Singapore, and a Fellow of the American Society of Heating, Refrigerating and Air-Conditioning Engineers. He is a Fellow of the Singapore Academy of Engineering, the ASEAN Academy of Engineering and Technology, the Energy Institute, UK, and the ASEAN Federation of Engineering Organisations. He is Chairman of the Technical Evaluation Panel on the Grant for Energy Efficiency Technology (GREET) of the National Environment Agency, Singapore. He is the national focal point on the Board of Advisers, ASEAN Committee on Science and Technology (COST). He is presently an Editor of the Elsevier journal, Applied Energy, and serves on the editorial boards of a number of other energy related journals. His research interests are in energy performance of buildings, clean and renewable energy, micro combustion, micro power generation and propulsion systems, and energy efficiency.

Keynote Speakers



Prof. Hongguang Jin

Academician of Chinese
Academy of Sciences,
China

Keynote: Complementary Energy Systems for Low Carbon City

Bic

Prof. Hongguang Jin is Academician of Chinese Academy of Sciences, Professor and Director of Laboratory of Distributed Energy System and Renewable Energy, Institute of Engineering Thermophysics, Chinese Academy of Sciences. He serves as Director General of Chinese Society of Engineering Thermophysics. He received his Ph.D. degree from Tokyo Institute of Technology, Japan in 1994. Prof. Jin's research focuses on thermophysics, chemical engineering, energy systems analysis, polygeneration system, demonstration of CCHP, and solar thermal technologies. He is one of the two principal inventors of Chemical-looping Combustion, a revolutionary approach for fossil fuels conversion with near-zero energy penalty of CO2 capture. He has published more than 300 papers and serves as subject editor of Applied Energy. He is the recipient of numerous awards, such as the second-rank National Natural Science Award of China in 2009, and the Ho Leung Ho Li Science and Technology Progress Award in 2011.



Ms. Jian Jiao

Beijing Engineering Research Center of Building Energy Efficiency and Urban Ecology, China

Keynote: Several key issues about the Green Building

Based on the analysis of green buildings with more than 30 years development, discuss several key issues about the Green Building: 1, By reconsidering the substance, redefine the concept and scope of the Green Building. Summarize the main items and coping strategies. 2, In view of the problems in the new period, conclude the core plates of the Green Building. 3, Analyze the misunderstanding and problems of the value oriented practice of the Green Building. 4, Analyze the relationship between the development of green buildings and the overall development direction of architecture. It is hoped that by thinking about the above key issues, we can find new ideas for solving the problems of green building in present-days.

Bic

Ms. Jiao received her master's degree of Architect from Architectural Department of Tianjin University. She is a professorate senior engineer, a national first-class registered architect. She mainly focuses on the directions of sustainable city and buildings, including eco-city, green building, accessibility design etc. She has carried out and completed a number of design and research projects, published a number of articles and papers, won multiple design and research awards at national and provincial level.

Young Scholar Forum

Clean Energy Research and Innovation without Borders

Clean energy is of importance to guarantee the energy security and sustainable development.

Research should be coordinated covering different areas and countries without borders. This panel focuses on the topics of clean energy research and innovation consisting of young panelists with cross-disciplinary background from science and engineering to management and policy.

Chair: Tao Jiang (Northeast Electric Power University)

Participants: Jianglong Li (Xi'an Jiaotong University); Jingxiang Lv (Northwestern Polytechnical University); Jun Yin (Zhejiang Gongshang University); Ji Li (Shanghai Jiao Tong University); Taosheng Jin (Nankai University); Wei Li (Tongji University)

Young Scholar Forum

Name	Title	Affiliation			
Jianglong Li	Towards a green world: How do green technology	School of Economics and Finance, Xi'an			
	innovations affect total-factor carbon productivity	Jiaotong University, Xi'an, China			
	Jianglong Li got his Doctorate in Energy Economics at Xia	men University and Bachelor Degree in			
	Hydro-power Engineering at Wuhan University, China. He	e was selected as a member of international			
	clean energy talent program (iCET) in 2017. His current re	esearch focuses on energy and			
	environmental economics with a special emphasis on ene	ergy transformation for promoting China's			
	green economic growth, optimal pathway for achieving g	reen energy (electricity) system, and			
	quantitative evaluation for the portfolio of energy policie	s. In recent three years, he published about			
	20 academic papers in Chinese top journals and English jo	ournals indexed by SSCI and SCI. He is			
	currently leading several projects, including China's Natio	onal Natural Science Fund.			
Jingxiang Lv	Opportunities and challenges for energy saving and	Department of Mechanical Engineering,			
	carbon emission reduction of manufacturing	Northwestern Polytechnical University,			
	enterprises in the era of big data	Xi'an, China			
	engineering and the Ph.D. degree in Mechanical Engineering from Zhejiang University, Hangzhou, China, in 2008 and 2014, respectively. Jingxiang Lv's main research interests and activities are in the area of green manufacturing, including energy flow analysis, modeling, simulation, experimentation and optimization of manufacturing equipment and manufacturing systems. The research objects involve machine tools, ball mills, 3D printing machines and energy-intensive manufacturing systems. Mechanical and electrical theory, algorithms, internet of things, big data and artificial intelligence were involved in the research. He has published more than 20 papers (7 as first or corresponding author) and obtained 5 state invention patents. He is currently leading and participating several projects funded by the National Natural Science Foundation of China.				
Jun Yin	Resource Recovery from Organic Wastes Based on VFA	School of Environmental Science and			
	Platform	Engineering, Zhejiang Gongshang			
		University, Hangzhou, China			
	Jun Yin's research interests include optimizing and understanding the recovery of value-added				
	chemicals (such as volatile fatty acids) and/or bioenergy from food waste by anaerobic fermentation				
	based on mixed culture biotechnology (MCB), and the biological nitrogen removal from domestic				
	wastewater, simultaneously monitoring the composition	of microbial populations to explore the			
	microbiological mechanisms of these biological processes	s. Her research goal is to improve the			
	resource recovery from the wastes. Dr. Yin is currently leading some projects funded by the Chinese				

Government and provincial government. In her research team, she has currently 4 Master students.

Young Scholar Forum

Name	Title	Affiliation			
Ji Li	Offshore wind farms and offshore farming: developing	Institute of Oceanography, Shanghai Jiao			
	the coupled clean system	Tong University, Shanghai, China			
	Ji Li is an oceanographer, and an associate professor at th	he Institute of Oceanography, Shanghai Jiao			
	Tong University. Dr. Li got his PhD from the Horn Point La	boratory, University of Maryland Center for			
	Environment Sciences, and was a research assistant profe	essor at University of Maryland, College			
	Park. Dr. Li's research interests include marine ecosystem	dynamics, algal ecophysiology, and the			
	sustainable usage of marine nature resources. Dr. Li ha	s studied ecosystem the major estuaries in			
	the US and China, and also the primary production and co	arbon cycle in the southern ocean. Dr. Li is			
	also developing algae cultivation system to produce algai	l biomass which is valuable feedstock with			
	environmental benefit.				
Taosheng Jin	Innovation in transportation energy	College of Environmental Science and			
		Engineering, Nankai University, Tianjin,			
		China			
	Taosheng Jin's research focuses on vehicle emission control, air pollution control, etc. Till now as the				
	first author or correspondence author, he has published over 30 papers on journals home and abroad				
	Major research projects hosted include:				
	$oldsymbol{1}$) Study on regional vehicle emission control and green traffic. National Key Research and				
	Development Program of China 2017-2020, PI of Sub-project. 2) Driving condition-based study on				
	the influence of fuel quality on the concentration and chemical components of PM2.5 from vehicle				
	emission. National Natural Science Foundation of China 2015-2018, Pl.				
Li Wei	Effective Interdisciplinary Cooperation and Talent	Department of Electrical Engineering,			
	cultivation in Energy Field	Tongji University, Shanghai, China			
	Li Wei is an associate professor working at the departmen	nt of electrical engineering in Tongji			
	University. Her current research interests include the app	lication of supercapacitor for large scale			
	energy storage and the development of high power densi	ity DC/DC converter for fuel cell vehicle. She			
	was a winner of "Green Talent Prize 2014", awarded by G	German Federal Ministry of Education and			
	Research. She has lead 2 projects funded by Natural Scier	nce Foundation of China, and several			
	projects from companies. In her research team, she has 3	master students and 3 senior engineers.			
Tao Jiang	Integrated energy systems: innovation on energy	Department of Electrical Engineering,			
	saving and flexibility on energy system operation	Northeast Electric Power University, Jilin,			
		China			
	Tao Jiang received the B.S. and M.S. degrees in electrical	engineering from Northeast Electric Power			
	University, Jilin, China, in 2006 and 2011, respectively, an	d the Ph.D. degree in electrical engineering			
	from Tianjin University, Tianjin, China, in 2015. He is pres	ently an Associate Professor with the			
	Department of Electrical Engineering, Northeast Electric I	Power University. He was with the			
	Department of Electrical and Computer Engineering, Nort	·			
	· · · · · · · · · · · · · · · · · · ·	••••••			

USA, as a visiting scholar from 2014 to 2015. His research interests include power system stability

analysis and control, renewable energy integration, demand response, and smart grid.

Scholarly Publication

Scholarly publication: Sharing and communicating

Chair: Professor Jinyue Yan (Royal Institute of Technology, Mälardalen University)

Participants: Dr. Yan Sun (Global STM Journals, ELSEVIER); Dr. Rose Zhu (Joule Journal); Dr. Jing-Chun Feng (Sun

Yat-sen University)

Name Title Affiliation

Professor Jinyue Yan



Publishing? not only ...

Editor in Chief of Applied Energy

Dr. Yan is the professor of Energy Engineering, Royal Institute of Technology (KTH) and Mälardalen University, Sweden; Director of Future Energy Profile; Editor-in-Chief of Applied Energy (IF=7.182, Elsevier); Editor-in-Chief of Handbook of Clean Energy Systems (Wiley). He is an academician of European Academy of Sciences and Arts.

Prof. Yan received his PhD at KTH in 1991. During 2001 to 2005, Dr. Yan was chair professor and head of Energy Engineering at Luleå University of Technology, Sweden. Prof. Yan's research interests include simulation and optimization of advanced energy systems incl. advanced power generation; renewable energy (bioenergy and solar); carbon capture and storage; clean development mechanism (CDM); and fundamental engineering thermodynamics. Prof. Yan published about 400 papers (70 books, book chapters and proceedings) including the papers in Science, Nature Climate Change, etc. H-index: 46, i10-index 143. Prof. Yan is the Conf. Chair of International Conference on Applied Energy, ICAE2009-2018 (Hong Kong, Singapore, Italy, China, South Africa, Taipei, Abu Dhabi, Beijing and Cardiff). He is an editorial board member of several international journals. He also serves as the advisory expert to the United Nation, European Union Commission, and Asian Development Bank, and other international organizations; Overseas Assessor of Chinese Academy of Sciences; and academic adviser to Hong Kong Polytechnic University, Hong Kong City University, Lawrence Berkeley National Laboratory etc.

Scholarly Publication

Name Title Affiliation

Dr. Yan Sun



Open data and sharing policy

Global STM Journals, ELSEVIER

Yan Sun is a graduate from School of Environment of Tsinghua University, and has also studied in UK, Sweden, The Netherlands and Poland on remote sensing and environmental management. Having been working in STM publishing industry for more than 10 years, Yan has taken various positions in Elsevier and Wolters Kluwer including Publisher for environmental sciences journals, health and medical sciences journals, energy journals, Senior Manager of Publishing Content Department, as well as Project Manager for China Journal Collaboration Programme. Currently Yan is the Executive Publisher of well-known Energy and Fuel journals including Fuel, Progress in Energy and Combustion Science, Combustion and Flame, Journal of Energy Chemistry, etc, and also holds general responsibilities for China market development across Elsevier journals.

Dr. Rose Zhu



Energy Research & High Impact Publishing in Joule

Joule Journal

Dr. Rose Zhu (朱昌菜) is the Associate Scientific Editor for Joule based out of Shanghai office. She started her Ph.D. study at Nanyang Technological University (NTU, Singapore) under Prof. Hong Jin FAN in 2012 after received BSc degree in Sichuan University (China). She joined Prof. Shirley MENG's group as a visiting scholar in 2015 at University of California, San Diego. Dr. Zhu worked as Research Fellow successively in NTU under Prof. FAN and National University of Singapore under Prof. John WANG from 2016 to 2017. She has published more than 10 first/co-first-author papers in in the field of Catalysis, Li, Na, Zn ion Batteries, Supercapacitors, to Advanced Materials, Nano Letters, Chemical Society Review, Nature Communications, Material Horizon, Nano Energy etc.

Dr. Jing-Chun Feng



Toward effective and high-quality research and writing

Sun Yat-sen University, China

Dr. Jing-Chun Feng achieved her Ph.D degree at the Guangzhou Institute of Energy Conversion, Chinese Academy of Sciences, under the guidance of Prof. Xiao-Sen Li. Her research interest is Natural gas hydrate exploitation technology, mechanism design of carbon trading, as well as strategy and policy management of Low-Carbon and energy. She has published more than 15 first/co-first author SCI Papers in energy and low-carbon field, to Applied Energy, Energy, Energy fuels, Fuel, International Journal of Heat and Mass Transfer, et al.

Organized by

Applied Energy

Tongji University

Applied Energy Innovation Institute (AEii)

China Association for Science and Technology (CAST)/HOME program

Hosted by

Tongji University

Co-organized by

Future Energy Profile/Mälardalen University Sweden

Shanghai Key Lab of Urban Regeneration & Spatial Optimization Technology

MOE Joint Laboratory for International Cooperation on Eco-Urban Design

Date

June 5-7, 2018

Time Difference

GMT + 8 hours

Venue

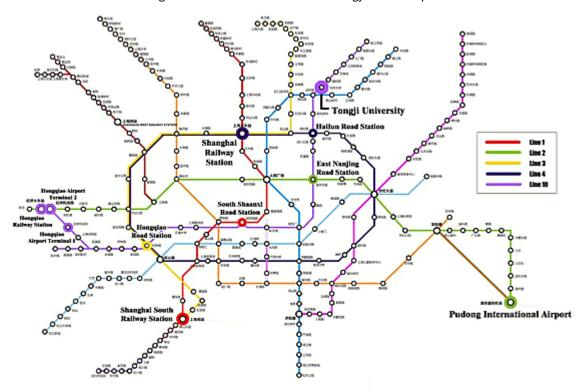
Zonghe Building, Tongji University

No. 1239 Siping Road, Yangpu District, Shanghai, China

How to get to Tongji University

By metro

Follow the direction board of Shanghai Metro and take metro to Tongji University



The timetable of the metro is as follows for your reference:

Line 2	Pudong International Airport	Guanglan Road Station
	To Guanglan Road Station	To East Xujing
The first metro 06:00		05:28
The last metro	22:00	22:50

Line 10	Hongqiao Airport Terminal 1 to	Hongqiao Airport Terminal 2 to
	Xinjiangwanchen Station	Xinjiangwanchen Station
The first metro	05:59	05:56
The last metro	22:34	22:31

By taxi

You can also take a taxi to Tongji Guest House. However, the taxi fare will be at your cost.

Taxi: Directly from Pudong International Airport to Tongji Guest House

Fare: about 200 RMB Duration: about 80 minutes

Taxi: Directly from Hongqiao International Airport to Tongji Guest House

Fare: about 100 RMB Duration: about 30 minutes

Hotels



- A: Main gate B: Mingjing Building (Venue of the workshop, 4th floor, Seminar Room)
- 1: Kingswell Hotel (http://www.kingswelltongji.com/)
- 2, 3: Metropolo Jinjiang Hotel (You can contact Ms. Zhou at 1416234286@qq.com for reservation)
- 4: Tongji Guest House
- 5: Jitai Hotel (1149 Siping Road, 021-65977779)

About Shanghai

Shanghai sits at the mouth of the Yangtze River, the longest river in China. It is the largest Chinese city and "a city of skyscrapers". With a history of more than 700 years, Shanghai was once the financial center of the Far East. Its colonial legacy and international character give it a character of its own — a museum of East-meets-West and a mix of modernity and tradition. Today, Shanghai is the largest economic and transportation center in China. As the world third largest city with a population of 25 million, Shanghai is still on track to become the world metropolitan through the development of four international centers of economy, finance, trade and shipping. In April 2016, the State Council has approved Shanghai's development plan to develop into a Science and Technology Innovation Center with Global Influence. The most popular tourist scenes in Shanghai include the Bund, People's Square, Orient Pearl Broadcasting and Television Tower, Jin Mao Tower, Global Finance Center, and Shanghai Xintiandi, etc.



Tongji University, with a history of 110 years, is one of the leading unviersities directly under the State Ministry of Education in China. Tongji is a top tier university in China with its extraordinary strength in application of scientific findings and new technologies, especially in the field of environment and sustainable development. In 2011, Tongji University initiated China Green University Network (CGUN). In 2012, the Global Universities Partnership on Environment and Sustainability (GUPES), initiated by UN Environment and Tongji University was launched in Shanghai and Tongji has been selected as the Chair of GUPES. Tongji was the first university in Asia-Pacific region honored with "Global Outstanding Sustainable Campus".

Venues Information

Registration area: Lobby of Zonghe Building

Lunch: 2nd floor, Xueyuan Canteen

Opening and keynote speaking: 129 Hall

Banquet: 1st floor, Shanghai Jinjiang Magnolia Hotel

Drinks reception: Outside of the conference venue

Panels and presentations:

Item Room

Panel sessions: 1-A3, 2-A3 Oral presentations: 1-B3, 1-B4, 2-B2, 2-B3, 2-B4

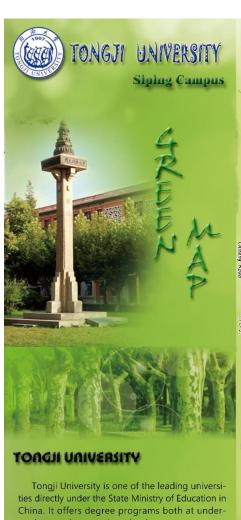
Oral presentations: 1-C3, 1-C4, 2-C2, 2-C3, 2-C4 Oral presentations: 1-D3, 1-D4, 2-D2, 2-D3, 2-D4 Oral presentations: 1-E3, 1-E4, 2-E2, 2-E3, 2-E4

Oral presentations: 1-F3, 1-F4, 2-F2, 2-F3, 2-F4

Poster presentation

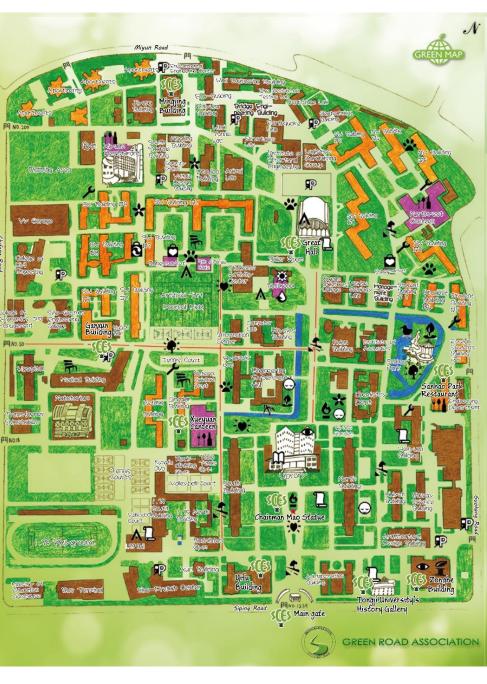
To be decided. 401, Zonghe Building 403, Zonghe Building 404, Zonghe Building 408, Zonghe Building 409, Zonghe Building

Lobby of Zonghe Building



graduate and postgraduate levels.

The university now registers over 50,000 students at all levels from certificate and diploma courses to Bachelors Degrees, Masters, PhD programs and post doctoral attachments. There are over 4200 academic staff for teaching and/or research, among whom there are 6 Members of Chinese Academy of Science, 7 Members of Chinese Academy of Engineering, over 710 professors and 1500 associate pro fessors.



Site Visits

3 June

13:00 Depart from Planning area

Visit 1: Lujiazui CBD Central Green, Shanghai Museum

Visit 2: BMW New Energy Vehicle Brand Experience Center, the Bund

4 June

08:30 Depart from Planning area

Visit 1: Chongming Planning Exhibition Center, National Agricultural

Facility Center

Visit 2: Xisha National Wetland Park, Chongming Museum

Maximum number: 20

















Program at a Glance

Registration: 14:00- 16:00 Jun 5; 8:00- 11:00 Jun 6; 8:00-11:00 Jun 7 Conference: Jun 6-7						
Time	Jun 5					
14:00-16:00			Reg	istration		
Time			Day	1: Jun 6		
09:00-09:10			0	pening		
09:10-09:50			Ke	ynote 1		
09:50-10:30			Ke	ynote 2		
10:30-10:45			Tea/Co	offee Break		
10:45-11:25			Ke	ynote 3		
11:25-12:05			Ke	ynote 4		
12:05-13:20			ı	_unch		
Afternoon	1-A3	1-B3	1-C3	1-D3	1-E3	1-F3
13:20-13:40		218	79	202	80	156
13:40-14:00	Panel:	266	57	154	185	285
14:00-14:20	Young Scholar	92	64	178	47	43
14:20-14:40	Forum	12	37	196	136	281
14:40-15:00		33	69	201	105	273
15:20-15:50			Tea/Co	offee Break		
Afternoon	1-A4	1-B4	1-C4	1-D4	1-E4	1-F4
15:50-16:10		83	101	245	125	65
16:10-16:30		11	139	49	44	119
16:30-16:50		85	204	89	195	74
16:50-17:10		84	8	98	165	127
17:10-17:30		219	103	36	184	144
18:00-20:00	Conference Banquet					

Program at a Glance

Time	Day 2: Jun 7					
Morning		Lobby of Zonghe Building				
08:30-08:50						
08:50-09:10			Docto	er Session		
09:10-09:30			POSIC	er Session		
09:30-09:50						
09:50-10:20			Tea/Co	offee Break		
Morning	2-A2	2-B2	2-C2	2-D2	2-E2	2-F2
10:20-10:40		66	157	45	175	124
10:40-11:00		42	194	50	166	20
11:00-11:20		104	290	110	118	41
11:20-11:40		254	126	5	288	128
11:40-12:00		106	238	46	207	268
12:00-13:20			l	unch		
Afternoon	2-A3	2-B3	2-C3	2-D3	2-E3	2-F3
13:20-13:40		48	30	152	60	19
13:40-14:00	Panel:	39	176	120	246	107
14:00-14:20	Scholarly	138	205	158	258	108
14:20-14:40	Publication	275	213	123	255	117
14:40-15:00		215	114	220	181	190
15:00-15:30	Tea/Coffee Break					
Afternoon	2-A4	2-B4	2-C4	2-D4	2-E4	2-F4
15:30-15:50		155	129	62	223	173
15:50-16:10		70	211	76	287	137
16:10-16:30		78	230	115	267	141
16:30-16:50		160	180	68	244	269
16:50-17:10		289	82	163	222	86

		Ro	om: 1-B3			
		Session Name: Policy of	on climate change mitigation			
		Session	Chair: Xue Tan			
Time	Paper ID	Author	Paper Title			
13:20-13:40	218	Peijun Rong, Yaochen Qin, Lijun Zhang and Yingying Sun	The spatial differences and influencing factors of urban residential embedded carbon emissions			
13:40-14:00	266	Nan Wang, Jiufa Chen	Theoretical Analysis of Organic Rankine Cycle Combined Power and Ejector Refrigerator Driven By Solar Energy			
14:00-14:20	92	Kaile Zhou, Yiwen Li	Influencing Factors and Fluctuation Characteristics of China's Carbon Emission Trading Price			
14:20-14:40	12	Yin Long ,Yoshikuni Yoshida ,Runsen Zhang, Lie Sun	Revealing Monthly Urban Carbon Leakage Generated from Residential Energy Consumption			
14:40-15:00	33	Xinghua Fan, Xiangxiang Lv, Jiuli Yin, Jiaochen Liang	Quantifying market efficiency of China's regional carbon market by multifractal detrended analysis			
		-	om: 1-C3			
			e: Green buildings			
			liang Chen, Fanyue Qian			
Time	Paper ID	Author	Paper Title			
13:20-13:40	79	Yat Huang Yau and Jun Hao Tam	A COMPARISON STUDY FOR ACTIVE CHILLED BEAM AND VARIABLE AIR VOLUME SYSTEMS FOR AN OFFICE BUILDING			
13:40-14:00	57	Xiaoling Yu, Qian Lv, Yifeng Ding, Shuo Yang, Liming Jiang and Liwen Jin	Simulation of heating loads and heat pump loads of a typical suburban residential building of Beijing, China in wintertime			
14:00-14:20	64	Mao Ning, Hao Jingyu, Song Mengjie	Energy saving potential for a TAC system under varying night envelope thermal load			
14:20-14:40	37	Mengxiao Xie, Chengyu Li, Ying Wang, Jian Wang	Comprehensive Utilization of Renewable Energy for New Civil Buildings in Shanghai			
14:40-15:00	69	Yunxia Liu , Zaisheng Hong, Xunpeng Shi	Antecedents of Residents' Repurchase Intention of Green Housing: Case Study of Sino-Singapore Tianjin Eco-city			
		Roc	om: 1-D3			
		Session Name: Dis	tributed energy systems			
		Session Cha	ir: Hongtao Wang			
Time	Paper ID	Author	Paper Title			
13:20-13:40	202	Fei Yang, Nianzhi Huang, Qie Sun, Lin Cheng and Ronald Wennersten	Modeling and techno-economic analysis of the heat pump-integrated PEMFC-based micro-CHP system			
13:40-14:00	154	Kaile Zhou, Shuyu Wei	Time-of-use price model for user-side micro-grid based on power supply chain management			
14:00-14:20	178	Zhiyuan Liu, Hang Yu, Shangyuan Huang, Rui Li and Zishuo Huang	Influence Study of energy configuration based on the primary energy prices in the distributed energy system			
14:20-14:40	196	Yu Fu, Haiyang Lin, Kailai Sun, Qie Sun, Ronald Wennersten	A multi-objective optimization of PV/ST-GSHP system based on office buildings			
14:40-15:00	201	Tingting Guan, Haiyang Lin, Qie Sun, Ronald Wennersten	Optimal configuration and operation of multi-energy complementary distributed energy systems			
		Ro	om: 1-E3			
		Session Name: Pollutant e	mission mitigation technologies			
Session Chair: Changshu Tan, Shiming Deng						
Time	Paper ID	Author	Paper Title			
13:20-13:40	80	Jing-Chun Feng, Xuelan Zeng, Zhi Yu, Weijia Xu, Wuying Zhang, Weichi Li and Xulei Chen	Toward Low-Carbon Industry: Carbon Emission and Decoupling Status of Industry Sector in a Coastal City of Zhuhai, China			
13:40-14:00	185	Shuai Gao, Can Wang	International market mechanism under Paris Agreement: Insights from China			
14:00-14:20	47	Li Yaoguang,Zhang Yan	Embodied CO2 transfer in global trade based on ecological network analysis			
14:20-14:40	136	Qingren Cao,Wei Kang, M. Jawad Sajida,Ming Cao	Measuring China's carbon emissions based on final consumption			
14:40-15:00	105	Xiangguo Cheng, Nan Li, Hailin Mu*, Yuanhao Guo, Yuqing Jiang	Study on Total Factor Energy Efficiency in three provinces of northeast China based on SBM model			

	Room: 1-F3 Session Name: Green transport & EV Session Chair: Xunmin Ou, Rui Xiong, Zheming Tong						
Time	Paper ID	Author	Paper Title				
13:20-13:40	156	Danhua Ouyang, Qian Zhang and Xunmin Ou	Review of Market Surveys on Consumer Behavior of Purchasing and Using Electric Vehicle in China				
13:40-14:00	285	Jun Yuan and Victor Nian	Ship Energy Consumption Prediction with Gaussian Process Metamodel				
14:00-14:20	43	Wei Wu,Su-Bo Yang, Bo-Neng Chuang,Bin Shi	Optimization of a Multi-tube Annular Membrane Methanol Reformer for Fuel Cell- Powered Vehicles				
14:20-14:40	281	Yuxiang He,Huicui Chen,Bingwang Qu, Tong Zhang,Pucheng Pei,Chen Liang	Analysis of Proton Exchange Membrane Fuel Cell reactant gas dynamic response and distribution quality				
14:40-15:00	273	Kampanart Theinnoi, Warirat Temwutthikun and Thawatchai Wongchang	Application of Exhaust Gas Fuel Reforming in Diesel Engines Towards the Improvement Urban Air Qualities				
13:20-15:00 PANEL SESSION: Clean Energy Research and Innovation without Borders: Young Scholar Forum							
15:00-15: 30			TEA/COFFEE BREAK				

		Roc	om: 1-B4			
Session Name: Policy on climate change mitigations						
Session Chair: Xue Tan, Ke Wang						
Time	Paper ID	Author	Paper Title			
15:30-15:50	83	Ayyoob Sharifi,Yihan Wu,Dararat Khamchiangta,Takahiro Yoshida,Yoshiki Yamagata	Urban carbon mapping: Towards a standardized framework			
15:50-16:10	11	Zaili Zhen, Lixin Tian, Qian Ye	A simple estimate for the social cost of carbon			
16:10-16:30	85	Yihan Wua, Ayyoob Sharifi, Perry Yang, Habura Borjigin, Daisuke Murakami, Yoshiki Yamagata	Mapping building carbon emissions within local climate zones in Shanghai			
16:30-16:50	84	Wuxia Bi, Baisha Weng, Juan Chen, Denghua Yan	Evolution Characteristics of Groundwater Level and its Relation to Low-Carbon Development in Southern Horqin Sandy Land, China			
16:50-17:10	219	Tao Cao, Saige Wang, Bin Chen	The energy-water nexus in interregional economic trade from both consumption and production perspective			
		Roc	om: 1-C4			
		Session Nam	e: Green buildings			
		Session Chair: Jian	liang Chen, Fanyue Qian			
Time	Paper ID	Author	Paper Title			
15:30-15:50	101	Yang He, Hang Yu, Pengda Chen, Mei Zhao	Thermal performance evaluation of a new type of green roof system			
15:50-16:10	139	Zhang Yongming, Yan Zhe, Fu Weidong, Ding Bao.	A novel elevator energy conservation method based on DC micro-grid			
16:10-16:30	204	Tiantian Zhang, Hongxing Yang	Optimal thickness determination of insulating air layers in building envelopes			
16:30-16:50	8	Shunian Qiu, Weijie Zhang, Jiajie Li, Jialiang Chen, Zhenhai Li, Zhengwei Li	A chiller operation strategy based on multiple-objective optimization			
16:50-17:10	103	Chaoen Li, Hang Yu and Yuan Song	Synthesis of microencapsulated stearic acid with amorphous TiO2 as shape- stabilized PCMs for thermal energy storage			
		Roc	om: 1-D4			
		Session Name: Dis	stributed energy system			
		Session Chair:	Jingxiang Lv, Li Wei			
Time	Paper ID	Author	Paper Title			
15:30-15:50	245	Habiba Khalid, Farrukh Amin and Chang Chen	Demand-Side Management in China's Power Sector Reform: Status, Challenges, and Countermeasures			
15:50-16:10	49	Fadhel Ayachi, Lizhong Yang, Jia Yin Sze, Alessandro Romagnoli	Cryogenic polygeneration for green data centre			
16:10-16:30	89	Jialiang Chen, Xin Wang, Zhengwei Li, Shunian Qiu, Jiang Wu	Deploying residential rooftop PV units for office building use: a case study in Shanghai			
16:30-16:50	98	Changhui Yang and Zhixiang Ge	Dynamic feed-in tariff pricing model of distributed photovoltaic generation in China			
16:50-17:10	36	Wei Wang, Xiaodong Xu, Hsi-Hsien Wei, Bin Ren and Jiayu Chen	Modeling occupancy distribution in large building spaces for HVAC energy efficiency			

	Room: 1-E4						
	Session Name: Renewable energy						
Session Chair: Yilai Ding, Zhang Bai, Bai Tao							
Time	Paper ID	Author	Paper Title				
15:30-15:50	125	Boyan Meng, Thomas Vienken, Olaf Kolditz	Modeling the local temperature response to intensive operation of ground source				
13.00 13.00	120	and Haibing Shao	heat pump systems: A case study in Germany				
15:50-16:10	44	Fan Ying Jie, Li Yaowu, Zonyu Sun, Wu Zhiqiang	Kinetic analysis on gaseous products during co-pyrolysis of low-rank coal with				
13.30 10.10	77	and Yang Bolun	lignocellulosic biomass model compound: Effect of lignin				
		Bin Cai, Yusheng Xue, Xinxin Yang, Shumin					
16:10-16:30	195	Wang, Zhenlong Chen, Yalin Mao, Wei Chai and	Quantitative Analysis of Clean Transition Strategy of Traditional Coal-dominated				
		Rui Hu	Power Generation Company				
16.30 16.50	165	Jiabang Yu, Ying Yang, Xiaohu Yang, Qiongxiang	Effect of porous media on the heat transfer enhancement for a thermal energy				
16:30-16:50	105	Kong and Jinyue Yan	storage unit				
16.50 17.10	104	Lumbumba Taty-Etienne Nyamayoka, Lijun	Potential feasibility study of embedded piezoelectric generator system on a				
16:50-17:10	184	Zhang, Xiaohua Xia	roadway				
		Roo	om: 1-F4				
		Session Name: 0	Green transport & EV				
		Session Chair: Xunmin	Ou, Rui Xiong, Zheming Tong				
Time	Paper ID	Author	Paper Title				
15:30-15:50	65	Lingfei Qi, Hongye Pan, Yan Feng, Miankuan	A mechanical and electrical dual-pathway braking energy recovery system based				
15:30-15:50	05	Zhu, Tingsheng Zhang and Zutao Zhang	on coil springs for energy saving application in electric vehicle.				
45 50 46 40	440	Locate It Beaution	Lithium-ion Batteries Modeling and Optimization Strategies for Sinusoidal				
15:50-16:10	119	Jun-qiu Li, Danni Sun	Alternating Current Heating at Low Temperature				
16 10 16 20	7.4	Jianlin Wang, Dan Xua, Guangliang Ma, Le	A Simple Multimode Hybrid Energy Storage System and factional order control				
16:10-16:30	74	Zhang, Jiahui Zhou	strategy				
16 20 16 52	427	V. Fara B. Wana Law Wana	Estimation of Lithium-Ion Battery State of Charge for Electric Vehicles Based on				
16:30-16:50	127	Yu Fang, Rui Xiong, Jun Wang	Dual Extended Kalman Filter				
46.50.17.16	4	Runsen Zhang, Yin Long, Wenchao Wu and Gen	How do transport policies contribute to a low carbon city? An integrated				
16:50-17:10	144	Li	assessment using an urban computable general equilibrium model				
18:00-20:00			FERENCE BANQUET				
		1st floor, Shan	ghai Jinjiang Magnolia Hotel				

08:30-09:50	Location: Lobby of Zonghe Building POSTER SESSION						
09:50-10:20	TEA/COFFEE BREAK						
	Room: 2-B2						
	Session Name: Waste to energy						
		Session	on Chair: Hongtao Wang, Yu Nan T				
Time	Paper ID	Author	Paper Title				
		Kreangkrai Maneeintr, Thun					
10:20-10:40	66	Leewisuttikul, Supachai Kerdsuk,	Hydrothermal and enzymatic treatments of pineapple waste for energy production				
		Tawatchai Charinpanitkul	Carlo an arrival and retire to restal aire 112 and home stand for an arrival for a formal formal for a formal for a formal for a formal forma				
10:40-11:00	177	Alaa Wazeri, Mohamed Elsamadony, and Ahmed Tawfik	Carbon emissions reduction by catalyzing H2 gas harvested from water hyacinth fermentation				
		Zhouchao Weng, Jie Lin, Mi Yan,	process using metallic salts				
11:00-11:20	104	Hongcai Su, Sicheng Zhang, Guobin	Investigation of Sludge Gasification under Flue Gas				
11.00 11.20	101	Wang, Ekkachai Kanchanatip	intestibation of stadic dustrication and in the dust				
		Wenchao Ma, Terrence Wenga ,	Kinetic modelling and experimental validation on the effect of KCI and SO2 concentration on				
11:20-11:40	254	Guanyi Chen	corrosion of pure Fe under simulated municipal solid waste combustion				
11 10 10 00	406	Dwi Hantoko, Ekkachai Kanchanatip,	Co-gasification of sewage sludge and lignite coal in supercritical water for H2 production: a				
11:40-12:00	106	Mi Yan , Jie Lin, Zhouchao Weng	thermodynamic modelling approach				
			Room: 2-C2				
		Se	ession Name: Green buildings				
	Ι	Session	Chair: Jianliang Chen, Fanyue Qian				
Time	Paper ID	Author	Paper Title				
		Qian Lv, Xiaoling Yu, Yifeng Ding, Shuo					
10:20-10:40		Yang, Liming Jiang, Xiaofei Jia and					
	157	Liwen Jin	A novel numerical method of transient temperature simulation for a HVAC room				
10:40-11:00	194	Song Mengjie, Mao Ning	Defrosting start control strategy for air source heat pump				
11:00-11:20		Yu Wang, Haiyang Lin, Luyao Liu,					
	290	Ronald Wennersten and Qie Sun	High-rise building peak load shaving using rooftop attached PV				
11:20-11:40		Teguh P. Adinugroho, Mohamed B.	Investigation on thermal performance of diverse innovative prismatic building models and				
	126	Gadi	establishment of the form indicator				
11:40-12:00	238	Dongmei Sun	Research and Application of Energy Consumption Benchmarking Method for Public Buildings Based on Actual Energy Consumption				
	230	poliginer 3un	Room: 2-D2				
		Session Name: Techn	nologies on CO2 capture, storage and utilizations				
			ession Chair: Tao Jiang, Kun Li				
Time	Paper ID	Author	Paper Title				
	45	Zhan Liu, Longhui Liang and Zhenya	A non-linear reciprocating compressor model representing the interaction between				
10:20-10:40		Duan	thermodynamic process and unsteady flow				
	50	Xianglong Liu, zhenghua Rao Liping	The measurement and calculation of flue gas flow for gas turbines of offshore oil production				
10:40-11:00		Zeng Xiaohua Li Xiao Chen Wenbin	facilities				
		Li					
11:00-11:20	110	Xin Cui, Xiaohu Yang, Qiongxiang Kong,	Experimental study on a cross-flow regenerative indirect evaporative cooling system				
		Liwen Jin					
	5	Yi Huang, Qun Yi, Wei Wang, Guo-	A nonlinear programming approach to strategic planning of coal chemical industry with CO2				
11:20-11:40		Sheng Wu, Jing-Xian Kang, Ke-Chang	emissions restriction in China				
44 45 45	4.0	Xie, Wen-Ying Li and Jie Feng	Heat integration of paul ICCC naugaralants with CCC analysis				
11:40-12:00	46	"Wen Xu	Heat integration of new IGCC power plants with CO2 capture				
			Room: 2-E2				
			sion Name: Renewable energy				
- .			hair: Zhang Bai, Xiaohu Yang, Bai Tao				
Time	Paper ID	Author	Paper Title				
10:20-10:40	175	Dwi Hantoko, Mi Yan, Bayu Prabowo	Preparation of empty fruit bunch as a feedstock for gasification process by employing				
	466	and Herri Susanto	hydrothermal treatment				
10.40 11.00	166	Haonan Cheng, Tao Luo, Jiabang Yu,	Experimental study of vertical tube PCM storage with or without circular fins during charge				
10:40-11:00		Xiaohu Yang, Yanhua Liu, Zhaolin Gu					
	<u> </u>	and Liwen Jin					

11:00-11:20	118	Nan Zhang, Yujie Lu, and Jiayu Chen	Development of An Innovation Diffusion Model for Renewable Energy Deployment	
11:20-11:40	288	Luyao Liu, Qie Sun, Yu Wang, Ronald Wennersten and Yiling Liu	Research on Short-term Optimization for Integrated Hydro-PV Power System Based on Genetic Algorithm	
11:40-12:00	207	Nan Zhang, Yujie Lu, and Jiayu Chen	Assessment of Power System Low-carbon Transition Pathways Based on China's Energy Revolution Strategy	
			Room: 2-F2	
		Sessi	on Name: Green transport & EV	
		Session Chai	r: Xunmin Ou, Rui Xiong , Zheming Tong	
Time	Paper ID	Author	Paper Title	
40 20 40 40	124		Energy Management Strategy Design for Dual-motor Coaxial Coupling Propulsion Electric City-	
10:20-10:40		Mingjie Zhao, Junhui Shi, Cheng Lin	buses	
10:40-11:00	20	Ying Yang, Qing Zhang, Zhen Wang,	A dealer, who is heard a provide of the driving a rule development for all attitudes a little and in the	
		Xue Cai	Markov chain-based approach of the driving cycle development for electric vehicle application	
11:00-11:20	41	Guodong Yang, Junqiu Li, Zijian Fu, Lin Guo	Adaptive state of charge estimation of Lithium-ion battery based on battery capacity degradation model	
11:20-11:40	128	Qi Jin, Rui Xiong, Hao Mu, Jun Wang	A novel method of parameter identification based on set-membership algorithm for lithium-ion batteries	
	268	a sur, mar mong, mad may sam trang	The Structure Optimization of Lithium-ion Battery Pack Based on Fluid-solid Conjugate	
11:40-12:00		Min Ye and Yining Xu	Thermodynamic Analysis	
12:00-13: 20	LUNCH			

Room: 2-B3							
Session Name: Smart and sustainable urban design							
Session Chair: Yu Nan, Teguh Adinugroho							
Time Paper ID Author Paper Title							
13:20-13:40	3:20-13:40 48 Zhang Menghui and Zhang Yan Analysis of energy metabolism process in Beijing-Tianjin-Hebei urban agglomeration						
13:40-14:00	39	Jonathan Natanian and Thomas	Balancing urban density, energy performance and environmental quality in the				
15.40-14.00		Auer	Mediterranean: a typological evaluation based on photovoltaic potential				
14:00-14:20	138	Yiqun Wu, Xiaoqing Zhu, Weijun	aoqing Zhu, Weijun The spatial characteristics of coupling relationship between urbanization and eco-				
14.00-14.20		Gao and Fanyue Qian	environment in the Pan Yangtze River Delta				
14:20-14:40	275	Yiqun Wu, Xiaoqing Zhu, Weijun	Thermalscape of Ecological City and its Visualized Evaluation				
14.20-14.40		Gao and Fanyue Qian					
14:40-15:00	215	Ye Hai and Qian Feng	Travel pattern and spatial heterogeneous characteristics of ridesharing in Beijing-Tianjin-				
14.40-15.00			Hebei region, China				
			Room: 2-C3				
		Se	ession Name: Green buildings				
	ı	Session	Chair: Jianliang Chen, Fanyue Qian				
Time	Paper ID	Author	Paper Title				
13:20-13:40	30	Shiming Deng and Jing Du	The Development of the Bed-Based Task/Ambient Air Conditioning System Applied to				
13.20-13.40			Sleeping Environments				
13:40-14:00	176	Huijie Gao, Wenjing He	Effect of a new solar air collector system on the indoor living environment and air quality for				
15.40-14.00			the kindergarten building				
14:00-14:20	205	Ruta Vanaga, Andra Blumberga,	Choosing the best nature's strategy with the highest thermodynamical potential for				
14.00 14.20		Julija Gusca , Dagnija Blumberga	application in building thermal envelope using MCA analysis				
14:20-14:40	213		Design of a two-medium solar collector in residential buildings				
14:40-15:00	114	Li Zhu, Yujiao Huo, Wei Tian and	Relationships between design parameters of see-through thin film photovoltaic facade and				
14.40-15.00		Yong Sun	energy performance of office building in China cold zone				
			Room: 2-D3				
		Sess	ion Name: Energy water nexus				
Session Chair: Changshu Tan, Shiming Deng							
Time	Paper ID	Author	Paper Title				
	152	Jin Xu, Pengzhou Luo, Bowen Lu,	Energy-water nexus analysis of wastewater treatment plants (WWTPs) in China based on				
13:20-13:40		Hongtao Wang, Xin Wang, Jiang	statistical methodologies				
		Wu, Jinyue Yan					
13:40-14:00	120	Jiake Fang, Saige Wang, Yiyi Zhang	The electricity-water nexus in Chinese electric trade system				
13.40-14.00		and Bin Chen					

14:00-14:20	158	Chenfan Huang, Yue Li, Xuyao Li, Hongtao Wang, Jinyue Yan, Xin Wang, Jiang Wu and Fengting Li	Understanding the water-energy nexus in urban water supply system with city features						
14:20-14:40	123	Changyi Liao, Saige Wang, Jiake The impacts of interprovincial agricultural trade on water resources in China: from							
11120 21110		Fang and Yiyi Zhang	perspective of grey water footprint						
14:40-15:00	220	Yating Liu, Saige Wang and Bin Chen	Blue, green and grey water embodied in food supply chain in China						
Room: 2-E3									
			sion Name: Renewable energy						
			hair: Zhang Bai, Xiaohu Yang, Bai Tao						
Time	Paper ID	Author	Paper Title						
13:20-13:40	60	Alaa Alhamwi, Wided Medjroubi,	FlexiGIS: an open source GIS-based platform for the optimization of flexibility options in						
		Thomas Vogt and Carsten Agert	urban energy systems						
13:40-14:00	246	Juan Fang, Qibin Liu, Shaopeng Guo, Jing Lei	A full-spectrum solar chemical energy storage system with photochemical and thermochemical processes						
14:00-14:20	258	Tianyue HUANG	A GIS-based assessment of PV potential in China						
14.00-14.20	255	Yong Lei, Hongwei Tan and Yue Li	Technical-economic evaluation of ground source heat pump for office buildings in China						
14:20-14:40	233	Tong Lei, Hongwei Tan and Tue Li	reclinical-economic evaluation of ground source heat pump for office buildings in China						
14.40 15.00	181	Dace Lauka, Kamel Haine, Julija	Solar energy integration in future urban plans of the South and Nordic cities						
14:40-15:00		Gusca and Dagnija Blumberga							
Room: 2-F3									
		Sessi	on Name: Green transport & EV						
		Session Chai	r: Xunmin Ou, Rui Xiong, Zheming Tong						
Time	Paper ID	Author	Paper Title						
13:20-13:40	19	Liang Zhang, Xue Cai	Control strategy of regenerative braking system in electric vehicles						
13:40-14:00	107	Yanxiang Lei, Caiping Zhang, Yang	Charging Optimization of Lithium-ion Batteries Based on Capacity Degradation Speed and						
13.40-14.00		Gao and Tong Li	Energy Loss						
	108	Xiaofeng Shen, Bingxiang Sun,	Research on peak power test method for Lithium Ion battery						
14:00-14:20		Hongfeng Qi, Xiaobo Shen and							
		Xiaojia Su							
14:20-14:40	117	117	117	Jian Wu, Tong Li, Hao Zhang,	Research on Modeling and SOC Estimation of Lithium Iron Phosphate Battery at Low				
14:20-14:40		Yanxiang Lei and Guangquan Zhou	Temperature						
14:40-15:00	190	Liang Zhang, Xue Cai	The technology convergence of electric vehicles: Exploring the promising and potential convergence relations						
13:20-15:00	13:20-15:00 PANEL SESSION: Scholarly Publication: Sharing and Communicating								
15:00-15: 30			TEA/COFFEE BREAK						

Room: 2-B4							
Session Name: Smart energy networks							
Session Chair: Tao Jiang, Fang Liu							
Time	Time Paper ID Author Paper Title						
15:30-15:50			Recommendation of personalized electricity consumption strategies for residents in smart				
13.30-13.30	155	Kaile Zhou, Fang Wang	grid environments				
15:50-16:10		Jie Xiao, Xiangyu Kong and Jin	Demand-responsive virtual power plant optimization scheduling method based on				
15:50-16:10	70	Qiang	competitive bidding equilibrium				
16:10-16:30		Qiwen Jiang, Jianbo Chen, Jialin					
16:10-16:30	78	Hou and Yanhua Liu	Research on building energy management in HVAC control system for university library				
16.30 16.50		Fanyue Qian, Yao Liu, Yongwen	Research on Equipment Operation and Maintenance Management Based on Shanghai Power				
16:30-16:50	160	Yang, Weijun Gao and Yiqun Wu	Distribution Network After Power System Reform				
16.50 17.10		Jiaqi Zhong, Luyao Liu, Qie Sun,	Prediction of Photovoltaic Power Generation Based on General Regression and Back				
16:50-17:10	289	Xinyu Wang	Propagation Neural Network				
Room: 2-C4							
Session Name: Low carbon economy							
Session Chair: Teguh Adinugroho, Jingchun Feng							
Time Paper ID Author Paper Title							

15:30-15:50		Hao Yu, Jing-Li Fan, Yang Wang and						
	129	Jianda Wang	Research on the new-generation urban energy system in China					
15:50-16:10		Lijun Zhang, Peijun Rong, Yaochen	Does Industrial Agglomeration Mitigate Fossil CO2 Emissions? An Empirical Study with					
13.30 10.10	211	Qin and Yongyue Ji	Spatial Panel Regression Model					
		Fanxin Meng, Gengyuan Liu,						
16:10-16:30		Yuanchao Hu, Meirong Su and	From production to consumption: A multi-city comparative study of cross-regional carbon					
	230	Zhifeng Yang	emissions					
		Jakapong Pongthanaisawan, Weerin						
16:30-16:50		Wangjiraniran, Kannaphat						
10.30 10.30		Chuenwong and Luethaipat						
	180	Pimonsree	Scenario Planning for Low Carbon Tourism City: A Case Study of Nan					
16:50-17:10		Weerin Wangjiraniran	Accelerated Discovery of 2D TMDCs Materials via CVR Method in Big Data for the Potential					
10.50 17.10	82		Urban Airborne HgO Sensor Application					
			Room: 2-D4					
			ession Name: Energy storage					
		Sess	sion Chair: Xiaohu Yang, Kun Li					
Time	Paper ID	Author	Paper Title					
15:30-15:50			Comprehensive study of lithium ion battery thermal management using heat pipe and phase					
13.30 13.30	62	Zhiyuan Jlang; Zhiguo Qu	change material during charge-discharge cycle					
15:50-16:10		Xiaoqin Sun, Youhong Chu, Yajing						
15.50 15.10	76	Mo, Siyuan Fan	Experimental investigations on the heat transfer of melting phase change material (PCM)					
		Jia Yin Sze, Chenzhong Mu, Fadhel						
16:10-16:30		Ayachi, Lizhong Yang, Alessandro	Highly efficient nanofiler based on carboxylated graphene oxide in phase change materials					
	115	Romagnoli, Beng Kang Tay	for cold thermal energy storage					
16:30-16:50		Geng Shuai , Yin Yu, Xu Chongqing,						
10.50 10.50	68	Yan Guihuan	Selection Framework of Electrochemical Storage Power Station from Bank's Perspective					
		Zengxu Guo , Qingsong Bai ,						
16:50-17:10		Jialin Hou, Xiaohu Yang, Yanjun	Experimental investigation on the melting behavior of phase change materials in open-cell					
	163	Sun and Yanhua Liu	metal foams in an inclined rectangular enclosure					
Room: 2-E4								
			Room: 2-E4					
			sion Name: Renewable energy					
	T	Ses						
Time	Paper ID		sion Name: Renewable energy					
	Paper ID	Author Essam Mohamed, Shinichi	sion Name: Renewable energy sion Chair: Zhang Bai, Bai Tao					
Time 15:30-15:50		Author Essam Mohamed, Shinichi Ookawara, Ali Radwan, Ahmed	sion Name: Renewable energy sion Chair: Zhang Bai, Bai Tao					
	Paper ID	Author Essam Mohamed, Shinichi Ookawara, Ali Radwan, Ahmed Elshazly and Marwa El-Kady,	sion Name: Renewable energy sion Chair: Zhang Bai, Bai Tao Paper Title Numerical Analyses of High Concentrator Triple-Junction Solar Cell Under Jet Impingement Cooling					
15:30-15:50		Author Essam Mohamed, Shinichi Ookawara, Ali Radwan, Ahmed	Sion Name: Renewable energy Sion Chair: Zhang Bai, Bai Tao Paper Title Numerical Analyses of High Concentrator Triple-Junction Solar Cell Under Jet Impingement Cooling Performance evaluation of semi-transparent CdTe thin film PV window applying on					
		Author Essam Mohamed, Shinichi Ookawara, Ali Radwan, Ahmed Elshazly and Marwa El-Kady,	Paper Title Numerical Analyses of High Concentrator Triple-Junction Solar Cell Under Jet Impingement Cooling Performance evaluation of semi-transparent CdTe thin film PV window applying on commercial buildings in Hong Kong					
15:30-15:50	223	Author Essam Mohamed, Shinichi Ookawara, Ali Radwan, Ahmed Elshazly and Marwa El-Kady, Meng Wang, Jinqing Peng, Hongxing Yang and Yimo Luo	Paper Title Numerical Analyses of High Concentrator Triple-Junction Solar Cell Under Jet Impingement Cooling Performance evaluation of semi-transparent CdTe thin film PV window applying on commercial buildings in Hong Kong Theoretical analysis of Organic Rankine cycle driven by solar energy combined power and					
15:30-15:50 15:50-16:10	223	Author Essam Mohamed, Shinichi Ookawara, Ali Radwan, Ahmed Elshazly and Marwa El-Kady, Meng Wang, Jinqing Peng, Hongxing Yang and Yimo Luo Nan Wang and Jiufa Chen	Paper Title Numerical Analyses of High Concentrator Triple-Junction Solar Cell Under Jet Impingement Cooling Performance evaluation of semi-transparent CdTe thin film PV window applying on commercial buildings in Hong Kong Theoretical analysis of Organic Rankine cycle driven by solar energy combined power and ejector refrigeration					
15:30-15:50 15:50-16:10	223	Author Essam Mohamed, Shinichi Ookawara, Ali Radwan, Ahmed Elshazly and Marwa El-Kady, Meng Wang, Jinqing Peng, Hongxing Yang and Yimo Luo Nan Wang and Jiufa Chen Haifeng Wu, Qibin Liu, Zhang Bai,	Paper Title Numerical Analyses of High Concentrator Triple-Junction Solar Cell Under Jet Impingement Cooling Performance evaluation of semi-transparent CdTe thin film PV window applying on commercial buildings in Hong Kong Theoretical analysis of Organic Rankine cycle driven by solar energy combined power and ejector refrigeration A distributed cogeneration system with solar biomass two-stage gasifier for hydrogen, power					
15:30-15:50 15:50-16:10 16:10-16:30	223	Author Essam Mohamed, Shinichi Ookawara, Ali Radwan, Ahmed Elshazly and Marwa El-Kady, Meng Wang, Jinqing Peng, Hongxing Yang and Yimo Luo Nan Wang and Jiufa Chen Haifeng Wu, Qibin Liu, Zhang Bai, Gengxin Xie, Jie Zheng	Paper Title Numerical Analyses of High Concentrator Triple-Junction Solar Cell Under Jet Impingement Cooling Performance evaluation of semi-transparent CdTe thin film PV window applying on commercial buildings in Hong Kong Theoretical analysis of Organic Rankine cycle driven by solar energy combined power and ejector refrigeration					
15:30-15:50 15:50-16:10 16:10-16:30	223	Author Essam Mohamed, Shinichi Ookawara, Ali Radwan, Ahmed Elshazly and Marwa El-Kady, Meng Wang, Jinqing Peng, Hongxing Yang and Yimo Luo Nan Wang and Jiufa Chen Haifeng Wu, Qibin Liu, Zhang Bai, Gengxin Xie, Jie Zheng Nuttapol Lerkkasemsan, Prakob	Paper Title Numerical Analyses of High Concentrator Triple-Junction Solar Cell Under Jet Impingement Cooling Performance evaluation of semi-transparent CdTe thin film PV window applying on commercial buildings in Hong Kong Theoretical analysis of Organic Rankine cycle driven by solar energy combined power and ejector refrigeration A distributed cogeneration system with solar biomass two-stage gasifier for hydrogen, power					
15:30-15:50 15:50-16:10 16:10-16:30	223	Author Essam Mohamed, Shinichi Ookawara, Ali Radwan, Ahmed Elshazly and Marwa El-Kady, Meng Wang, Jinqing Peng, Hongxing Yang and Yimo Luo Nan Wang and Jiufa Chen Haifeng Wu, Qibin Liu, Zhang Bai, Gengxin Xie, Jie Zheng Nuttapol Lerkkasemsan, Prakob Kitchaiya, Apinan Namkanisorn,	Sion Name: Renewable energy Sion Chair: Zhang Bai, Bai Tao Paper Title Numerical Analyses of High Concentrator Triple-Junction Solar Cell Under Jet Impingement Cooling Performance evaluation of semi-transparent CdTe thin film PV window applying on commercial buildings in Hong Kong Theoretical analysis of Organic Rankine cycle driven by solar energy combined power and ejector refrigeration A distributed cogeneration system with solar biomass two-stage gasifier for hydrogen, power and heating in Northern China					
15:30-15:50 15:50-16:10 16:10-16:30 16:30-16:50	223 287 267 244	Author Essam Mohamed, Shinichi Ookawara, Ali Radwan, Ahmed Elshazly and Marwa El-Kady, Meng Wang, Jinqing Peng, Hongxing Yang and Yimo Luo Nan Wang and Jiufa Chen Haifeng Wu, Qibin Liu, Zhang Bai, Gengxin Xie, Jie Zheng Nuttapol Lerkkasemsan, Prakob Kitchaiya, Apinan Namkanisorn, Boonchai Chotiviriyavanich,	Paper Title Numerical Analyses of High Concentrator Triple-Junction Solar Cell Under Jet Impingement Cooling Performance evaluation of semi-transparent CdTe thin film PV window applying on commercial buildings in Hong Kong Theoretical analysis of Organic Rankine cycle driven by solar energy combined power and ejector refrigeration A distributed cogeneration system with solar biomass two-stage gasifier for hydrogen, power and heating in Northern China Thermodynamic and economic analysis of a solar-biomass gasification system with the					
15:30-15:50 15:50-16:10 16:10-16:30 16:30-16:50	223	Author Essam Mohamed, Shinichi Ookawara, Ali Radwan, Ahmed Elshazly and Marwa El-Kady, Meng Wang, Jinqing Peng, Hongxing Yang and Yimo Luo Nan Wang and Jiufa Chen Haifeng Wu, Qibin Liu, Zhang Bai, Gengxin Xie, Jie Zheng Nuttapol Lerkkasemsan, Prakob Kitchaiya, Apinan Namkanisorn,	Paper Title Numerical Analyses of High Concentrator Triple-Junction Solar Cell Under Jet Impingement Cooling Performance evaluation of semi-transparent CdTe thin film PV window applying on commercial buildings in Hong Kong Theoretical analysis of Organic Rankine cycle driven by solar energy combined power and ejector refrigeration A distributed cogeneration system with solar biomass two-stage gasifier for hydrogen, power and heating in Northern China Thermodynamic and economic analysis of a solar-biomass gasification system with the production of methanol and electricity					
15:30-15:50 15:50-16:10 16:10-16:30 16:30-16:50	223 287 267 244	Author Essam Mohamed, Shinichi Ookawara, Ali Radwan, Ahmed Elshazly and Marwa El-Kady, Meng Wang, Jinqing Peng, Hongxing Yang and Yimo Luo Nan Wang and Jiufa Chen Haifeng Wu, Qibin Liu, Zhang Bai, Gengxin Xie, Jie Zheng Nuttapol Lerkkasemsan, Prakob Kitchaiya, Apinan Namkanisorn, Boonchai Chotiviriyavanich, Ruenruedee Benjangkaprasert	Paper Title Numerical Analyses of High Concentrator Triple-Junction Solar Cell Under Jet Impingement Cooling Performance evaluation of semi-transparent CdTe thin film PV window applying on commercial buildings in Hong Kong Theoretical analysis of Organic Rankine cycle driven by solar energy combined power and ejector refrigeration A distributed cogeneration system with solar biomass two-stage gasifier for hydrogen, power and heating in Northern China Thermodynamic and economic analysis of a solar-biomass gasification system with the production of methanol and electricity Room: 2-F4					
15:30-15:50 15:50-16:10 16:10-16:30 16:30-16:50	223 287 267 244	Author Essam Mohamed, Shinichi Ookawara, Ali Radwan, Ahmed Elshazly and Marwa El-Kady, Meng Wang, Jinqing Peng, Hongxing Yang and Yimo Luo Nan Wang and Jiufa Chen Haifeng Wu, Qibin Liu, Zhang Bai, Gengxin Xie, Jie Zheng Nuttapol Lerkkasemsan, Prakob Kitchaiya, Apinan Namkanisorn, Boonchai Chotiviriyavanich, Ruenruedee Benjangkaprasert	Paper Title Numerical Analyses of High Concentrator Triple-Junction Solar Cell Under Jet Impingement Cooling Performance evaluation of semi-transparent CdTe thin film PV window applying on commercial buildings in Hong Kong Theoretical analysis of Organic Rankine cycle driven by solar energy combined power and ejector refrigeration A distributed cogeneration system with solar biomass two-stage gasifier for hydrogen, power and heating in Northern China Thermodynamic and economic analysis of a solar-biomass gasification system with the production of methanol and electricity Room: 2-F4 Name: Distributed energy systems					
15:30-15:50 15:50-16:10 16:10-16:30 16:30-16:50	223 287 267 244	Author Essam Mohamed, Shinichi Ookawara, Ali Radwan, Ahmed Elshazly and Marwa El-Kady, Meng Wang, Jinqing Peng, Hongxing Yang and Yimo Luo Nan Wang and Jiufa Chen Haifeng Wu, Qibin Liu, Zhang Bai, Gengxin Xie, Jie Zheng Nuttapol Lerkkasemsan, Prakob Kitchaiya, Apinan Namkanisorn, Boonchai Chotiviriyavanich, Ruenruedee Benjangkaprasert Session	Sion Name: Renewable energy Sion Chair: Zhang Bai, Bai Tao Paper Title Numerical Analyses of High Concentrator Triple-Junction Solar Cell Under Jet Impingement Cooling Performance evaluation of semi-transparent CdTe thin film PV window applying on commercial buildings in Hong Kong Theoretical analysis of Organic Rankine cycle driven by solar energy combined power and ejector refrigeration A distributed cogeneration system with solar biomass two-stage gasifier for hydrogen, power and heating in Northern China Thermodynamic and economic analysis of a solar-biomass gasification system with the production of methanol and electricity Room: 2-F4 Name: Distributed energy systems Session Chair: Jingxiang Lv					
15:30-15:50 15:50-16:10 16:10-16:30 16:30-16:50	223 287 267 244	Author Essam Mohamed, Shinichi Ookawara, Ali Radwan, Ahmed Elshazly and Marwa El-Kady, Meng Wang, Jinqing Peng, Hongxing Yang and Yimo Luo Nan Wang and Jiufa Chen Haifeng Wu, Qibin Liu, Zhang Bai, Gengxin Xie, Jie Zheng Nuttapol Lerkkasemsan, Prakob Kitchaiya, Apinan Namkanisorn, Boonchai Chotiviriyavanich, Ruenruedee Benjangkaprasert Session	Sion Name: Renewable energy Sion Chair: Zhang Bai, Bai Tao Paper Title Numerical Analyses of High Concentrator Triple-Junction Solar Cell Under Jet Impingement Cooling Performance evaluation of semi-transparent CdTe thin film PV window applying on commercial buildings in Hong Kong Theoretical analysis of Organic Rankine cycle driven by solar energy combined power and ejector refrigeration A distributed cogeneration system with solar biomass two-stage gasifier for hydrogen, power and heating in Northern China Thermodynamic and economic analysis of a solar-biomass gasification system with the production of methanol and electricity Room: 2-F4 Name: Distributed energy systems Session Chair: Jingxiang Lv Paper Title					
15:30-15:50 15:50-16:10 16:10-16:30 16:30-16:50	223 287 267 244 222	Author Essam Mohamed, Shinichi Ookawara, Ali Radwan, Ahmed Elshazly and Marwa El-Kady, Meng Wang, Jinqing Peng, Hongxing Yang and Yimo Luo Nan Wang and Jiufa Chen Haifeng Wu, Qibin Liu, Zhang Bai, Gengxin Xie, Jie Zheng Nuttapol Lerkkasemsan, Prakob Kitchaiya, Apinan Namkanisorn, Boonchai Chotiviriyavanich, Ruenruedee Benjangkaprasert Session Author Hongwen He, Chen Wang and Hui	Sion Name: Renewable energy Sion Chair: Zhang Bai, Bai Tao Paper Title Numerical Analyses of High Concentrator Triple-Junction Solar Cell Under Jet Impingement Cooling Performance evaluation of semi-transparent CdTe thin film PV window applying on commercial buildings in Hong Kong Theoretical analysis of Organic Rankine cycle driven by solar energy combined power and ejector refrigeration A distributed cogeneration system with solar biomass two-stage gasifier for hydrogen, power and heating in Northern China Thermodynamic and economic analysis of a solar-biomass gasification system with the production of methanol and electricity Room: 2-F4 Name: Distributed energy systems Session Chair: Jingxiang Lv Paper Title A single-pedal regenerative braking control strategy of accelerator pedal for electric vehicles					
15:30-15:50 15:50-16:10 16:10-16:30 16:30-16:50 Time	223 287 267 244	Author Essam Mohamed, Shinichi Ookawara, Ali Radwan, Ahmed Elshazly and Marwa El-Kady, Meng Wang, Jinqing Peng, Hongxing Yang and Yimo Luo Nan Wang and Jiufa Chen Haifeng Wu, Qibin Liu, Zhang Bai, Gengxin Xie, Jie Zheng Nuttapol Lerkkasemsan, Prakob Kitchaiya, Apinan Namkanisorn, Boonchai Chotiviriyavanich, Ruenruedee Benjangkaprasert Session Author Hongwen He, Chen Wang and Hui Jia	Sion Name: Renewable energy Sion Chair: Zhang Bai, Bai Tao Paper Title Numerical Analyses of High Concentrator Triple-Junction Solar Cell Under Jet Impingement Cooling Performance evaluation of semi-transparent CdTe thin film PV window applying on commercial buildings in Hong Kong Theoretical analysis of Organic Rankine cycle driven by solar energy combined power and ejector refrigeration A distributed cogeneration system with solar biomass two-stage gasifier for hydrogen, power and heating in Northern China Thermodynamic and economic analysis of a solar-biomass gasification system with the production of methanol and electricity Room: 2-F4 Name: Distributed energy systems Session Chair: Jingxiang Lv Paper Title					
15:30-15:50 15:50-16:10 16:10-16:30 16:30-16:50 Time	223 287 267 244 222 Paper ID	Author Essam Mohamed, Shinichi Ookawara, Ali Radwan, Ahmed Elshazly and Marwa El-Kady, Meng Wang, Jinqing Peng, Hongxing Yang and Yimo Luo Nan Wang and Jiufa Chen Haifeng Wu, Qibin Liu, Zhang Bai, Gengxin Xie, Jie Zheng Nuttapol Lerkkasemsan, Prakob Kitchaiya, Apinan Namkanisorn, Boonchai Chotiviriyavanich, Ruenruedee Benjangkaprasert Session Author Hongwen He, Chen Wang and Hui Jia Yuan Gao, Qianying Liu, Shuxia	Sion Name: Renewable energy Sion Chair: Zhang Bai, Bai Tao Paper Title Numerical Analyses of High Concentrator Triple-Junction Solar Cell Under Jet Impingement Cooling Performance evaluation of semi-transparent CdTe thin film PV window applying on commercial buildings in Hong Kong Theoretical analysis of Organic Rankine cycle driven by solar energy combined power and ejector refrigeration A distributed cogeneration system with solar biomass two-stage gasifier for hydrogen, power and heating in Northern China Thermodynamic and economic analysis of a solar-biomass gasification system with the production of methanol and electricity Room: 2-F4 Name: Distributed energy systems Session Chair: Jingxiang Lv Paper Title A single-pedal regenerative braking control strategy of accelerator pedal for electric vehicles based on adaptive fuzzy control algorithm					
15:30-15:50 15:50-16:10 16:10-16:30 16:30-16:50 Time 15:30-15:50	223 287 267 244 222	Author Essam Mohamed, Shinichi Ookawara, Ali Radwan, Ahmed Elshazly and Marwa El-Kady, Meng Wang, Jinqing Peng, Hongxing Yang and Yimo Luo Nan Wang and Jiufa Chen Haifeng Wu, Qibin Liu, Zhang Bai, Gengxin Xie, Jie Zheng Nuttapol Lerkkasemsan, Prakob Kitchaiya, Apinan Namkanisorn, Boonchai Chotiviriyavanich, Ruenruedee Benjangkaprasert Session Author Hongwen He, Chen Wang and Hui Jia Yuan Gao, Qianying Liu, Shuxia Wang and Yingjun Ruan	Sion Name: Renewable energy Sion Chair: Zhang Bai, Bai Tao Paper Title Numerical Analyses of High Concentrator Triple-Junction Solar Cell Under Jet Impingement Cooling Performance evaluation of semi-transparent CdTe thin film PV window applying on commercial buildings in Hong Kong Theoretical analysis of Organic Rankine cycle driven by solar energy combined power and ejector refrigeration A distributed cogeneration system with solar biomass two-stage gasifier for hydrogen, power and heating in Northern China Thermodynamic and economic analysis of a solar-biomass gasification system with the production of methanol and electricity Room: 2-F4 Name: Distributed energy systems Session Chair: Jingxiang Lv Paper Title A single-pedal regenerative braking control strategy of accelerator pedal for electric vehicles					
15:30-15:50 15:50-16:10 16:10-16:30 16:30-16:50 Time 15:30-15:50	223 287 267 244 222 Paper ID 173	Author Essam Mohamed, Shinichi Ookawara, Ali Radwan, Ahmed Elshazly and Marwa El-Kady, Meng Wang, Jinqing Peng, Hongxing Yang and Yimo Luo Nan Wang and Jiufa Chen Haifeng Wu, Qibin Liu, Zhang Bai, Gengxin Xie, Jie Zheng Nuttapol Lerkkasemsan, Prakob Kitchaiya, Apinan Namkanisorn, Boonchai Chotiviriyavanich, Ruenruedee Benjangkaprasert Session Author Hongwen He, Chen Wang and Hui Jia Yuan Gao, Qianying Liu, Shuxia Wang and Yingjun Ruan Chengkuan Fang, Qiang Xu, Shuxia	Paper Title Numerical Analyses of High Concentrator Triple-Junction Solar Cell Under Jet Impingement Cooling Performance evaluation of semi-transparent CdTe thin film PV window applying on commercial buildings in Hong Kong Theoretical analysis of Organic Rankine cycle driven by solar energy combined power and ejector refrigeration A distributed cogeneration system with solar biomass two-stage gasifier for hydrogen, power and heating in Northern China Thermodynamic and economic analysis of a solar-biomass gasification system with the production of methanol and electricity Room: 2-F4 Name: Distributed energy systems Session Chair: Jingxiang Lv Paper Title A single-pedal regenerative braking control strategy of accelerator pedal for electric vehicles based on adaptive fuzzy control algorithm Impact of typical demand day selection on CCHP operational optimization					
15:30-15:50 15:50-16:10 16:10-16:30 16:30-16:50 Time 15:30-15:50 15:50-16:10	223 287 267 244 222 Paper ID	Author Essam Mohamed, Shinichi Ookawara, Ali Radwan, Ahmed Elshazly and Marwa El-Kady, Meng Wang, Jinqing Peng, Hongxing Yang and Yimo Luo Nan Wang and Jiufa Chen Haifeng Wu, Qibin Liu, Zhang Bai, Gengxin Xie, Jie Zheng Nuttapol Lerkkasemsan, Prakob Kitchaiya, Apinan Namkanisorn, Boonchai Chotiviriyavanich, Ruenruedee Benjangkaprasert Session Author Hongwen He, Chen Wang and Hui Jia Yuan Gao, Qianying Liu, Shuxia Wang and Yingjun Ruan Chengkuan Fang, Qiang Xu, Shuxia Wang and Yingjun Ruan	Sion Name: Renewable energy Sion Chair: Zhang Bai, Bai Tao Paper Title Numerical Analyses of High Concentrator Triple-Junction Solar Cell Under Jet Impingement Cooling Performance evaluation of semi-transparent CdTe thin film PV window applying on commercial buildings in Hong Kong Theoretical analysis of Organic Rankine cycle driven by solar energy combined power and ejector refrigeration A distributed cogeneration system with solar biomass two-stage gasifier for hydrogen, power and heating in Northern China Thermodynamic and economic analysis of a solar-biomass gasification system with the production of methanol and electricity Room: 2-F4 Name: Distributed energy systems Session Chair: Jingxiang Lv Paper Title A single-pedal regenerative braking control strategy of accelerator pedal for electric vehicles based on adaptive fuzzy control algorithm					
15:30-15:50 15:50-16:10 16:10-16:30 16:30-16:50 Time 15:30-15:50 15:50-16:10	223 287 267 244 222 Paper ID 173 137	Author Essam Mohamed, Shinichi Ookawara, Ali Radwan, Ahmed Elshazly and Marwa El-Kady, Meng Wang, Jinqing Peng, Hongxing Yang and Yimo Luo Nan Wang and Jiufa Chen Haifeng Wu, Qibin Liu, Zhang Bai, Gengxin Xie, Jie Zheng Nuttapol Lerkkasemsan, Prakob Kitchaiya, Apinan Namkanisorn, Boonchai Chotiviriyavanich, Ruenruedee Benjangkaprasert Session Author Hongwen He, Chen Wang and Hui Jia Yuan Gao, Qianying Liu, Shuxia Wang and Yingjun Ruan Chengkuan Fang, Qiang Xu, Shuxia Wang and Yingjun Ruan Peipei Jiang, Zhikai Peng and Yi	Paper Title Numerical Analyses of High Concentrator Triple-Junction Solar Cell Under Jet Impingement Cooling Performance evaluation of semi-transparent CdTe thin film PV window applying on commercial buildings in Hong Kong Theoretical analysis of Organic Rankine cycle driven by solar energy combined power and ejector refrigeration A distributed cogeneration system with solar biomass two-stage gasifier for hydrogen, power and heating in Northern China Thermodynamic and economic analysis of a solar-biomass gasification system with the production of methanol and electricity Room: 2-F4 Name: Distributed energy systems Session Chair: Jingxiang Lv Paper Title A single-pedal regenerative braking control strategy of accelerator pedal for electric vehicles based on adaptive fuzzy control algorithm Impact of typical demand day selection on CCHP operational optimization Operation optimization of heat pump in compound heating system					
15:30-15:50 15:50-16:10 16:10-16:30 16:30-16:50 Time 15:30-15:50 15:50-16:10 16:10-16:30	223 287 267 244 222 Paper ID 173	Author Essam Mohamed, Shinichi Ookawara, Ali Radwan, Ahmed Elshazly and Marwa El-Kady, Meng Wang, Jinqing Peng, Hongxing Yang and Yimo Luo Nan Wang and Jiufa Chen Haifeng Wu, Qibin Liu, Zhang Bai, Gengxin Xie, Jie Zheng Nuttapol Lerkkasemsan, Prakob Kitchaiya, Apinan Namkanisorn, Boonchai Chotiviriyavanich, Ruenruedee Benjangkaprasert Session Author Hongwen He, Chen Wang and Hui Jia Yuan Gao, Qianying Liu, Shuxia Wang and Yingjun Ruan Chengkuan Fang, Qiang Xu, Shuxia Wang and Yingjun Ruan Peipei Jiang, Zhikai Peng and Yi Wang	Paper Title Numerical Analyses of High Concentrator Triple-Junction Solar Cell Under Jet Impingement Cooling Performance evaluation of semi-transparent CdTe thin film PV window applying on commercial buildings in Hong Kong Theoretical analysis of Organic Rankine cycle driven by solar energy combined power and ejector refrigeration A distributed cogeneration system with solar biomass two-stage gasifier for hydrogen, power and heating in Northern China Thermodynamic and economic analysis of a solar-biomass gasification system with the production of methanol and electricity Room: 2-F4 Name: Distributed energy systems Session Chair: Jingxiang Lv Paper Title A single-pedal regenerative braking control strategy of accelerator pedal for electric vehicles based on adaptive fuzzy control algorithm Impact of typical demand day selection on CCHP operational optimization Operation optimization of heat pump in compound heating system The application potential of solar energy sources in Shanghai's existing workers' village					
15:30-15:50 15:50-16:10 16:10-16:30 16:30-16:50 Time 15:30-15:50 15:50-16:10 16:10-16:30	223 287 267 244 222 Paper ID 173 137	Author Essam Mohamed, Shinichi Ookawara, Ali Radwan, Ahmed Elshazly and Marwa El-Kady, Meng Wang, Jinqing Peng, Hongxing Yang and Yimo Luo Nan Wang and Jiufa Chen Haifeng Wu, Qibin Liu, Zhang Bai, Gengxin Xie, Jie Zheng Nuttapol Lerkkasemsan, Prakob Kitchaiya, Apinan Namkanisorn, Boonchai Chotiviriyavanich, Ruenruedee Benjangkaprasert Session Author Hongwen He, Chen Wang and Hui Jia Yuan Gao, Qianying Liu, Shuxia Wang and Yingjun Ruan Chengkuan Fang, Qiang Xu, Shuxia Wang and Yingjun Ruan Peipei Jiang, Zhikai Peng and Yi	Paper Title Numerical Analyses of High Concentrator Triple-Junction Solar Cell Under Jet Impingement Cooling Performance evaluation of semi-transparent CdTe thin film PV window applying on commercial buildings in Hong Kong Theoretical analysis of Organic Rankine cycle driven by solar energy combined power and ejector refrigeration A distributed cogeneration system with solar biomass two-stage gasifier for hydrogen, power and heating in Northern China Thermodynamic and economic analysis of a solar-biomass gasification system with the production of methanol and electricity Room: 2-F4 Name: Distributed energy systems Session Chair: Jingxiang Lv Paper Title A single-pedal regenerative braking control strategy of accelerator pedal for electric vehicles based on adaptive fuzzy control algorithm Impact of typical demand day selection on CCHP operational optimization Operation optimization of heat pump in compound heating system					

	Location: Lobby of Zonghe Building					
	June 7, 08:30-09:50					
Poster ID	Track	Paper ID	Paper Title	Authors		
	Distributed energy		Operation Simulation and Optimization of Distributed Energy System	Hongbo Ren, Yinlong Lu, Yong Zhang, Fang Chen, Xiu		
P-1	systems	21	Based on TRNSYS	Yang		
	Distributed energy		Research on distributed energy system based on spatial structure	Yong Zhang, Chen Fang, Hongbo Ren, Yinlong Lu, Xiu		
P-2	systems	22	analysis	Yang		
	Distributed energy			Fadhel Ayachi, Lizhong Yang, Jia Yin Sze and Alessandro		
P-3	systems	49	Cryogenic polygeneration for green data centre	Romagnoli		
	Distributed energy		The Research on Natural Gas Distributed Energy System Scheme of	Ai Jian, Liang Nan, Li Guoqing, Kong Qiongxiang and Cui		
P-4	systems	94	Large Hospitals in Xi'an	Xin		
	Distributed energy		Study on Optimization Strategy of Ground-Source Heat Pump System			
P-5	systems	132	Based on Multi-Unit	Qingrong Liu, Haikui Jin, Yingjun Ruan		
	Distributed energy		Switch sequence optimization of heat pumps for micro-grid peak			
P-6	systems	187	clipping	Zishuo Huang		
	Distributed energy			Bingqi Jiao, Ke Xu, Shengyu Wu, Yaohua Wang, Jing Xu		
P-7	systems	217	Optimal Operation of Park-based Integrated Energy System	and Shiju Wang		
	Distributed energy		An energy efficiency evaluation method of distributed CCHP system			
P-8	systems	221	based on attribute theory for optimal investment strategy	Jing Wang , Xin Ye, Ya Li, Xiaoqiang Gui, Hailin Guo		
	Energy Efficiency in		Improvement of one-dimensional gas dynamic model for pulsation			
P-9	Industrial Processes	164	prediction in reciprocating compressor systems	Zhan Liu, Enle Xu, Wenguang Jia and Xing Cao		
	Energy Efficiency in		Densities and excess molar volumes of methanol with three fatty acid	Yanjun Sun, Gaolei Di, Juan Xia, Xiaopo Wang, Xiaohu		
P-10	Industrial Processes	261	methyl esters from 283.15 to 318.15 K	Yang and Siyuan He		
			Consideration of reliability and economy to Capacity Configuration of			
			energy storage system: Case Study of a large scale wind power plant	WANG Yongli , YU Haiyang, WANG Xiaohai, ZHANG Fuli,		
P-11	Energy storage	9	in the Northwest China	HUANG Yujing		
			Comparison Analysis of Different Compressed Air Energy Storage	Shengni Zhou, Jianjun Zhang, Wenji Song and Ziping		
P-12	Energy storage	35	Systems	Feng		
			Performance analysis of a compressed liquid carbon dioxide energy	Jianjun Zhang, Shengni Zhou, Wenji Song and Ziping		
P-13	Energy storage	38	storage system	Feng		
P-14	Energy storage	51	Optimization Control of SOFC Based on Bond Graph Model	Ding Zhang, Shujun Mu, C.C. Chan and George You Zhou		
			A Study On Methanol Steam Reforming Over A Novel Nanocatalyst Of			
P-15	Energy storage	86	Compound Metal Oxides	Yidian Zhang, Yawen Zhao, Yong Hao		
			Research on a New Three-port Converter Operating Principle and			
P-16	Energy storage	116	Control Strategy	Jian WU, Baobao LIU, Xuezhi WU, Hongfeng QI		
			Experimental investigation on the solidification rate of water in open-	Qingsong Bai, Zengxu Guo, Xin Cui, Xiaohu Yang and		
P-17	Energy storage	162	cell metal foam with copper fins	Liwen Jin		
			A Hybrid Thermochemical–electrochemical Cycle For Efficient Solar			
P-18	Energy storage	167	Fuel Production	Kun Li, Yawen Zhao, Yong Hao and Jitian Han		
			Equivalent Peak Load Regulation of Nuclear Power Plant Considering	Feixiang Peng, Wei Zhou, Xin Sui, Shubo Hu, Hui Sun		
P-19	Energy storage	188	Benefits of Different Power Generation Groups	and Peng Yu		
			Chemical Looping Steam Methane Reforming for Solar	Xinhe Wang, Xuancheng Du, Wenbo Yu, Junshe Zhang,		
P-20	Energy storage	212	Thermochemical Energy Storage	Jinjia Wei*		
			The control strategy of energy storage externality for reducing wind			
P-21	Energy storage	231	curtailment from wind farm cluster	Gang Mu, Gan Guo, Junhui Li ,Gangui Yan		
1 21	Life By Storage		Concentration while faith cluster	Gang Ma, Gan Gao, Jannar Er, Gangar Tan		

			Environmental footprint assessment of green campus from a food-	Yifan Gu, Hongtao Wang, Zoe P. Robinson, Xin
P-22	Energy Water Nexus	75	water-energy nexus perspective	Wang, Jiang Wu, Xuyao Li, Jin Xu, Fengting Li
				Jiahong Liu, Dong Wang, Chenyao Xiang and Weiwei
P-23	Energy Water Nexus	169	Assessment of the Energy Use for Water Supply in Beijing	Shao
			Impact of virtual water flow with the energy product transfer on	
			sustainable water resources utilization in the main coal-fired power	Xuerui Gao, Qianyun Chen, Shibao Lu, Yubao Wang,
P-24	Energy Water Nexus	224	energy bases of Northern China	Tingli An, La Zhuo
P-25	Energy Water Nexus	239	The estimation and effect of anthropogenic heat flux in Beijing	Yingdong Yu, Jiahong Liu and Weiwei Shao
			Energy-water nexus in value chain within China based on linkage	
P-26	Energy Water Nexus	247	analysis	Delin Fang, Saige Wang, Huihui Zheng and Bin Chen
P-27	Energy Water Nexus	250	Spatial energy-water nexus through economic trade network	Saige Wang, Delin Fang, Bin Chen
			Renewable Energy Systems to Enhance Buildings Thermal	
P-28	Green Buildings	6	Performance and Decrease Construction Costs	Aiman Albatayneh
P-29	Green Buildings	24	Heat and Moisture Transfer Characteristics of Multilayer Walls	Rong Liu and Yuewu Huang
				Lei Li, Juntao Wang, Zhuodong Yang, Geng Luo, Kai
P-30	Green Buildings	40	An optical fiber daylighting system with large Fresnel lens	Tong, Jin Zhao and Jifeng Song
			Further Study on Permeability of Outdoor Particles in Temperature	
P-31	Green Buildings	59	Difference into Indoor Air	Yuxin Lu, Jiayi Qiu, Qiwen Jiang and Yanhua Liu
			The Significance of the Orientation on the Overall buildings Thermal	Shengni Zhou, Jianjun Zhang, Wenji Song and Ziping
P-32	Green Buildings	71	Performance	Feng
			A review of ground-source heat pump systems with heat pipes for	Siyuan Wu, Yuchao Dai, Francis Oppong, Xiaolu Li and
P-33	Green Buildings	140	energy efficiency in buildings	Cangsu Xu
			Experimental Study on the indoor air exhausted energy recycling	Fengxia Han, Zhongbin Zhang, Hu Huang and Zemin
P-34	Green Buildings	179	fresh air unit	Chen
			Lighting and Ventilation-based Building Sun-Shading Design and	
P-35	Green Buildings	236	Simulation Case in Cold Regions	Nan Sun, Yanqiu Cui, Yi Jiang,Shuting Li
			Analysis of passive Energy-saving Retrofitting of Rural Residential	
P-36	Green Buildings	237	Houses in Southern Anhui Province -A case in Hongcun	Jing Han
			Coordinated analysis of urban integrated energy-traffic networks	Tianyu Yang, Qinglai Guo, Chenhui Lin, Luo Xu and
P-37	Green transport & EV	18	based on real-world GPS data	Hongbin Sun
			Optimization of logic threshold control strategy for electric vehicles	
P-38	Green transport & EV	31	with hybrid energy storage system by pseudo-spectral method	Guodong Yang, Junqiu Li, Zijian Fu, Linlin Fang
			Evaluation of SOC Estimation Method Based on EKF/AEKF under	
P-39	Green transport & EV	54	Noise Interference	Dong Xile , Zhang Caiping, Jiang Jiuchun
			A Real-time MPC-based Energy Management of Hybrid Energy	
P-40	Green transport & EV	58	Storage System in Urban Rail	Zhidong Jia, Jiuchun Jiang, Hongtao Lin, Long Cheng
			Battery remaining useful life prediction under coupling stress based	Jingcai Du, Weige Zhang, Caiping Zhang and Xingzhen
P-41	Green transport & EV	90	on support vector regression	Zhou
			The study on Differential Steering Control of In-wheel Motor Vehicle	
P-42	Green transport & EV	134	Based on Double Closed Loop System	Junqiu Li, Zhichao Li, Sen Yang
			Modeling charging demand of electric vehicles in multi-locations	
P-43	Green transport & EV	143	using agent-based method	Haiyang Lin
			Influence of the Electric vehicle battery size and EV penetration rate	Yiling Liu, Haiyang Lin, Wang Yu, Liu Luyao, Qie Sun,
P-44	Green transport & EV	174	on the potential capacity of Vehicle-to-grid	Ronald Wennersten
	High-efficiency		Design and Verification of an Integrated Multi-task Testing Platform	Zhang Tong, Gao Haiyu, Chen Juexiao, Liu Feng, Chai
P-45	vehicle engines	284	for FCV Powertrain System	Hua, Chen Huichui
<u> </u>	_	<u>I</u>		1

P-46	Low Carbon Economy	10	Spatial Spillover Effects of Industrial Carbon Emissions in China	Li Wenchao, Yan Yihui, Tian Lixin.
			The Effect of Urban Scale Development on Electricity Intensity -	
P-47	Low Carbon Economy	16	Taking Jiangsu Province as an Example	Yang Jialiang, Tian Lixin, Li Wenchao
P-48	Low Carbon Economy	112	DEA on eco-efficiency evaluation of industrial parks in Taiwan	Jen-Te Pai*, Di Hu, Wan-Wen Liao
P-49	Low Carbon Economy	171	Maturity evaluation in China's low carbon energy industry	Xudong Sun , Xufan Jia, Yafei Rong
P-50	Low Carbon Economy	193	Unequal transports of black carbon driven by multi-regional trade	Huihui Zheng, Delin Fang and Bin Chen
			Analysis of global energy consumption inequality by using Lorenz	
P-51	Low Carbon Economy	259	curve	Cuncun Duan, Bin Chen
			Dynamics and Heterogeneity of Total Factor Carbon Emission	
P-52	Low Carbon Economy	280	Performance in Chinese Cities	Sheng Liu, X.H. Xia,Feng Tao, X.Y.Chen
	Policy on Climate		Applying support vector machines to predict building energy	
P-53	Change Mitigation	32	consumption in China	Ma Zhitong, Ye Cantao, Li Huashan and Ma Weibin
	Policy on Climate		Quantifying market efficiency of China's regional carbon market by	
P-54	Change Mitigation	33	multifractal detrended analysis	Xinghua Fan, Xiangxiang Lv, Jiuli Yin, Jiaochen Liang
	Policy on Climate		Identifying the cascading influential paths and sectors in an inter-	
P-55	Change Mitigation	191	regional embodied carbon dioxide flow network	Nan Fei Jia, Xiang Yun Gao and Xiao Qi Sun
	Pollutant Emission			
	Mitigation		Embodied CO2 transfer in global trade based on ecological network	
P-56	Technologies	47	analysis	Li Yaoguang and Zhang Yan
	Pollutant Emission			
	Mitigation		The economic and environmental impact analysis of replacing fossil	Xu Yan, Shuai Han, Yuanyuan Cheng, Xiqiao Lin, Lijuan
P-57	Technologies	67	energy with electricity in Guangxi—based on input-output model	Qin, Wanlu Wu, Bo Zeng
	Pollutant Emission			
	Mitigation		Routes and clustering features of PM2.5 spillover within the Jing-jin-ji	
P-58	Technologies	102	cities under multi-timescales based on complex network methods	Huajiao Li, Yajie Qi, Chao Li and Xueyong Liu
	Pollutant Emission			
	Mitigation		Performance analysis of a mechanical vapor recompression zero-	Hanzhi Wang, Shuaiqi Li, Chong Huang, Shihui He, Wenji
P-59	Technologies	256	emission system with water-injected compressor	Song and Ziping Feng
	Pollutant Emission			
	Mitigation		Volumetric properties of binary mixtures of methanol with ethyl	Juan Xia, Gaolei Di, Yanjun Sun, Xiaopo Wang, Xiaohu
P-60	Technologies	262	caprylate, ethyl caprate, and ethyl laurate from 283.15 to 318.15 K	Yang and Siyuan He
			Quantifying variabilities and impacts of massive photovoltaic	
			integration in public power systems with PHS based on real measured	
P-61	Renewable energy	4	data of Kyushu, Japan	Yanxue Li, Weijun Gao, Yingjun Ruan*
P-62	Renewable energy	17	Experimental study of an Adsorption Refrigeration Test Unit	Lingbao Wang, Xianbiao Bu and Weibin Ma
			Multi-Objective Optimization of Molten Carbonate Fuel Cell and	
P-63	Renewable energy	25	Absorption Refrigerator Hybrid System	Chengzhuang MIAO, Yuewu HUANG
			Product distribution and heating performance of lignocellulosic	Yu-Fong Huang, Pei-Te Chiueh, Wen-Hui Kuan, Shang-
P-64	Renewable energy	27	biomass pyrolysis using microwave heating	Lien Lo*
			Optimization of Renewable energy penetration in Regional Energy	
P-65	Renewable energy	52	System	Ding Zhang, Shujun Mu, C.C. Chan and George You Zhou
			Research of Evaporative Cooling Experiment in Summer of	
P-66	Renewable energy	55	Residential Buildings in Xi'an	He Wen, Xilian Luo, Yuhui Shen, Min Zhao, Zhaolin Gu
			Experimental investigation on contacting heating system assisted by	
P-67	Renewable energy	56	air source heat pump in residential buildings	Xilian Luo, Juan Li, Xiaoyu Zhu, He Wen, Min Zhao
P-67	Renewable energy	56	air source heat pump in residential buildings	Xilian Luo, Juan Li, Xiaoyu Zhu, He Wen, Min Zhao

			Hollow Cobalt Oxide Nanoparticles Embedded in Nitrogen-Doped	
			Carbon Nanosheets as an Efficient Bifunctional Catalyst for Zn-air	Yuhui Tian, Li Xu, Jian Bao, Henan Li, Junchao Qian,
P-68	Renewable energy	61	Battery	Huaneng Su, Huaming Li, Dong Liu, Haidong Gu
P-69	Renewable energy	63	The analysis of effects of clean energy power generation	Liu Hongtao, Liu Wenjia
			Peak Shaving Benefits Assessment of Renewable Energy Source	Ying Gong, Changshu Tan, Yannan Zhang, Yiping Yuan,
P-70	Renewable energy	81	Considering Joint Operation of Nuclear and Pumped Storage Station	Lei Zhou, Jianxue Wang
			Research on CO2 emission abatement effect of nuclear and natural	
P-71	Renewable energy	122	gas power based on LEAP	Cai Liya, Guo Jianfeng
				Weijing Ding, Weihong Zhou, Xiaodong Zhang, Baofeng
				Zhao, Lei Chen, Laizhi Sun, Shuangxia Yang, Haibin Guan
P-72	Renewable energy	168	The application of DFT in catalysis and adsorption reaction system	and Guanyi Chen
			Comparative Assessment of the Environmental Impacts of Hydro-	
			Electric Nuclear and Wind Power Plants in China: Life Cycle	Like Wang, Yuan Wang, Fenfen Bi, Zhihua Zhou and
P-73	Renewable energy	183	Considerations.	Mcsimon P. Garvlehn
			The effects of non-uniform irradiance in CPV/T systems with	
P-74	Renewable energy	189	truncated CPCs	Gaoming Zhang and Jinjia Wei
			Quantitative Analysis of Clean Transition Strategy of Traditional	Bin Cai, Yusheng Xue, Xinxin Yang, Shumin Wang,
P-75	Renewable energy	195	GenCos	Zhenlong Chen, Yalin Mao, Wei Chai and Rui Hu
			Research on Active Power Automatic Control Strategy of Wind Farm	
P-76	Renewable energy	200	Energy Station Access System	Deqian Kong, Xiangyu Kong and Jie Zhang
			Assessment of Power System Low-carbon Transition Pathways Based	Yan Wen, Bin Cai, Yusheng Xue, Shumin Wang,
P-77	Renewable energy	207	on China's Energy Revolution Strategy	Zhenlong Chen, Jimao Zhu, Dalin Jiang and Ziyu Yue
			Performance evaluation of semi-transparent CdTe thin film PV	
P-78	Renewable energy	287	window applying on commercial buildings in Hong Kong	Meng Wang, Jinqing Peng, Hongxing Yang and Yimo Luo
			Research on Short-term Optimization for Integrated Hydro-PV Power	Luyao Liu, Qie Sun, Yu Wang, Ronald Wennersten and
P-79	Renewable energy	288	System Based on Genetic Algorithm	Yiling Liu
			Electricity system flexibility by demand response: a case study from	
P-80	Renewable energy	291	Sweden commercial buildings	Ying Yang, Yang Zhang, Pietro Campana and Jinyue Yan
	Smart and			
	Sustainable Urban		Analysis of the ecological relationship among 13 cities and industrial	
P-81	Design	48	departments in Beijing-Tianjin-Hebei urban agglomeration	Zhang Menghui and Zhang Yan
	Smart and			
	Sustainable Urban		The Development Experience and Inspiration of urban energy system	
P-82	Design	93	in developed countries	YAN-ming Jin, Guan-jun Fu
	Smart and			
	Sustainable Urban		Research on urban park design combined with the urban ventilation	Lili Zhang, Jiawen Hou, Xi Meng, Qian Kang, Dong Wei,
P-83	Design	208	system	Zu'An Liu and Chaoping Hou
	Smart and			
	Sustainable Urban		Weiwei Shao, Jiahong Liu, Zhiyong Yang, Zhaohui Yang, Yingdong Yu	Carbon Reduction Effects of Sponge City Construction:
P-84	Design	276	and Weijia Li	A Case Study of Xiamen City
	Smart energy		A Multivariate Regression Load Forecasting Algorithm based on	
P-85	networks	26	Variable Accuracy Feedback	Yishuang Hu and Yi Ding
	Smart energy		Design and Implementation of Big-Data Analysis Application on Spark	Pan Zhang, Lingyun Ding, Ning Jiang, Wanshui Ling and
P-86	networks	153	for Distribution Network Based on Data Interception	Yi Ding
	Smart energy		Power Grid Morphological Positioning and Assessment Method in the	
P-87	networks	159	Energy Revolution	Xue Tan, Xiaoqing Yan, Jun Liu, Peng Wang, Lei Shi
<u></u>	ı	ı		1

ı	1			
	Smart energy		Demand Side Data Generating Based on Conditional Generative	
P-88	networks	161	Adversarial Networks	Jian Lan, Qinglai Guo and Hongbin Sun
	Smart energy			Yikuai Wang, Huadong Qiu, Ying Tu, Yi Ding, Qiang Liu,
P-89	networks	225	A Review of Smart Metering for Future Chinese Grids	Xiong Li and Weifeng Wang
	Smart energy		Energy Internet - A New Driving Force for Sustainable Urban	Zhihong Jiang, Jian Han, Wenzhou Liu, Zhe Chen, Ning
P-90	networks	252	Development	Li, Siyuan Wang,
	Smart energy			Wenzhou Liu, Ning Li, Zhihong Jiang, Zhe Chen, Siyuan
P-91	networks	253	Smart Micro-grid System with Wind/PV/Battery	Wang, Jian Han, Xiao Zhang, Chang Liu
	Smart energy		Potential ancillary services of electric vehicles (vehicle-to-grid) in	
P-92	networks	279	Indonesia	Muhammad Huda, Muhammad Aziz, Koji Tokimatsu
	Technologies on CO2			
	capture, storage and			Yu-Fong Huang, Yi-Ting Lee, Pei-Te Chiueh, Shang-Lien
P-93	utilizations	28	Microwave calcination of waste oyster shells for CO2 capture	Lo
			A New System of Absorption Heat Pump Vs. Boiler for Recovering	
P-94	Waste to energy	72	Heat and Water Vapor in Flue Gas	Jialin Hou, Defu Che, Yanhua Liu and Qiwen Jiang
			Efficient black liquor conversion to power and H2 based on process	Arif Darmawan, Muhammad W. Ajiwibowo,
P-95	Waste to energy	96	integration and exergy recovery	Muhammad Aziz, Koji Tokimatsu
			On-line analysis on fast pyrolysis of lignocellulosic biomass: thermal	Zhiqiang Wu, Yaowu Li, Wangcai Yang, Bolun Yang and
P-96	Waste to energy	121	behavior and kinetic analysis of hemicellulose	Haiyu Meng
			Study on capacity of coffee grounds to be extracted oil, produce	
P-97	Waste to energy	249	biodiesel and combust	Liang Jin, Haochun Zhang and Zhuang Ma







































