

TRS Project “Smart Solar Energy Harvesting, Storage and Utilization” (T23-407/13-N)
Recognized international conference(s) in which paper(s) related to this project was/were delivered
(July 2015 – June 2017)

ST	No.	Month/Year/ Place	Title	Conference Name
Project-wide	0a	19 – 24 Jun 2016, Hong Kong	Ching Ping Wong, Jianbin Xu, Ni Zhao & Yi-Chun Lu. Smart solar energy: A report from the Hong Kong RGC Theme-Based Research Project	<i>Gordon Research Conference 2016</i>
	Subtopic 1: High Performance Vacuum Deposited Thin Film PV Cells and Modules			
ST1	1a	Aug 2015, Singapore	Jiangquan Mai, Tsz Ki Lau, Xinhui Lu , Morphology studies of thick-film ternary organic bulk heterojunction solar cells	<i>M3 2015 Conference</i>
ST1	1b	30 Jun – 6 Jul 2015, Beijing, China	Xudong Xiao. Copper-based chalcogenide compound semiconductors for photovoltaic applications	<i>2015 International Workshop on Emerging Functional Electronic Materials and Devices</i>
ST1	1c	13 – 16 Oct 2015, Hangzhou, China	Xudong Xiao. Grain boundary properties of CIGS solar cells	<i>The 5th International Workshop on Quantum Energy</i>
ST1	1d	29 Nov – 4 Dec 2015, Boston, USA	Xudong Xiao. Two-stage annealing strategy for high efficiency Cu ₂ ZnSnS ₄ solar cell fabrication through sputtering and sulfurization	<i>2015 MRS Fall Meeting & Exhibit</i>
ST1	1e	18 – 21 Jan 2016, Hong Kong	Xudong Xiao. Two-stage annealing strategy for high efficiency Cu ₂ ZnSnS ₄ solar cell fabrication through sputtering and sulfurization	<i>EMN Meeting on Photovoltaics</i>
ST1	1f	22 – 24 Sept 2016, Hefei, China	Xudong Xiao. Nanoscale study of grain boundaries in Cu(InGa)Se ₂ thin film	<i>The 12th China-Singapore Joint Symposium on Research Frontiers in Physics</i>
ST1	1g	2 – 5 Nov 2016, Wuhan, China	Xudong Xiao. Nanoscopic studies of Cu(InGa)Se ₂ grain boundaries	<i>Asia Communications and Photonics Conference (ACP 2016)</i>
ST1	1h	7 – 11 Nov 2016, Nashville, TN, USA	Xudong Xiao. Compositions, structures, and electronic properties of grain boundaries of Cu(InGa)Se ₂	<i>AVS 63rd International Symposium & Exhibition</i>
ST1	1i	29 Mar – 1 April 2017, Xi’An, China	Xudong Xiao. Optimization of the fabrication of functional layers in CIGS and CZTS solar cells	<i>China Photovoltaic Technology International Conference (CPTIC 2017)</i>
ST1	1j	30 May 2017, ZSW, Stuttgart, Germany	Xudong Xiao. Nanoscopic study of the grain boundaries of Cu(InGa)Se ₂	<i>International CIGS Workshop IW-CIGS Tech 8</i>

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Subtopic 2: Solution Processed Excitonic Solar Cells				
ST2	2a	27 Nov - 2 Dec 2016, Boston, USA	Jie Cao, Ni Zhao & Ching-Ping Wong . Air-Stable Perovskite Solar Cells with Metal Oxides as Charge Transport Layers	<i>2016 MRS Fall Meeting & Exhibit</i>
ST2	2b	29 Oct – Nov 3, 2017, Charlotte, North Carolina, USA	Chenglin Li & Shih-Chi Chen . A flexure-based multi-layer roll-to-roll printing system (accepted)	<i>Annual Meeting of the American Society for Precision Engineering</i>
ST2	2c	25 - 29 Jan 2016, Okinawa, Japan	Jian-Bin Xu, Ni Zhao , Feng Wang, Hui Yu, Keyou Yan, Mingzhu Long & Tiankai Zhang. Recent progress in perovskite solar cells at The Chinese University of Hong Kong.	<i>The International Symposium on Functional Materials</i>
ST2	2d	27 - 28 May 2017, Beijing	Jianbin Xu . Chemistry understanding and functional engineering of perovskite solar cells based on sequential deposition method	<i>4th Conference of New Generation Solar Cell</i>
ST2	2e	29 Mar – 1 April, 2017, Xi’an, China	Jianbin Xu . Engineering of Chemical Coordination and Opto-Electronic Properties of High-Performance Perovskite Solar Cells	<i>China PV Technology International Conference (CPTIC)</i>
ST2	2f	27 - 28 May 2017, Beijing	Keyou Yan, Jianbin Xu & Mingzhu Long. Nonstoichiometric precursor reaction for perovskite solar cell	<i>4th Conference of New Generation Solar Cell</i>
ST2	2g	27 Nov -2 Dec 2016, Boston, USA	Ni Zhao . Invited talk, Material Engineering for Hybrid Perovskite Solar Cells	<i>2016 MRS Fall Meeting & Exhibit</i>
ST2	2h	27 Nov - 02 Dec 2016, Boston, USA	Yang Zhou, Feng Wang, Ni Zhao & Ching-Ping Wong . Distribution of Br in mixed I-Br organolead perovskites and its impact on photovoltaic performance	<i>2016 Material Research Society Fall Meeting</i>

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Subtopic 3: Alternative Solar Technologies				
ST3	3a	3 – 9 July 2016, Nanjing	Xiao-Fei Chen & Dennis K.P. Ng . Push-Pull Phthalocyanine-Based Photosensitizers for Dye-Sensitized Solar Cells	<i>The 9th International Conference on Porphyrins and Phthalocyanines</i>
ST3	3b	9 – 13 July 2017, The Chinese University of Hong Kong, China	Xiao-Fei Chen, Wen-Jing Shi, Takumi Kinoshita & Dennis K.P. Ng . Push-Pull Boron Dipyrromethene-Based Photosensitizers for Dye-Sensitized Solar Cells	<i>IMEBORON XVI</i>
ST3	3c	4 – 9 Dec 2016, Auckland	Xiao-Fei Chen & Dennis K.P. Ng . Artificial Photosynthetic Models Based on Assemblies of BODIPY/Porphyrin, Phthalocyanine, and C ₆₀ Moieties	<i>The 8th Asian Biological Inorganic Chemistry Conference</i>
ST3	3d	4 – 9 Dec 2016, Auckland	Xiao-Fei Chen, Wen-Jing Shi, Eugency A. Ermilov, Kei Ohkubo, Shunichi Fukuzumi & Dennis K.P. Ng . Assemblies of Functional Dyes as Artificial Photosynthetic Models	<i>The 8th Asian Biological Inorganic Chemistry Conference</i>
ST3	3e	3 – 5 Aug 2015, Singapore.	Jianfang Wang . Colloidal metal nanocrystals for nanoplasmonics.	<i>5th Molecular Materials Meeting (M3): The Next 50 Years of Materials Research</i>
ST3	3f	10 – 17 Aug 2015, Cancun, Mexico.	Jianfang Wang . Colloidal metal nanocrystals for plasmonic catalysis	<i>NANOMXCN, Mexico-China Workshop on Nano: Materials/Science/Technology</i>
ST3	3g	15 – 20 Dec 2015, Honolulu, Hawaii, USA	Jianfang Wang . Colloidal plasmonic metal nanocrystals	<i>The International Chemical Conference of Pacific Basin Societies 2015</i>
ST3	3h	22 – 25 Mar 2016, Academia Sinica, Taiwan	Jianfang Wang . Plasmonic metal nanocrystals.	<i>The 12th Cross-Strait Workshop on Nanoscience and Nanotechnology, Institute of Physics</i>
ST3	3i	25 – 30 June 2017, The Chinese University of Hong Kong, Hong Kong, China	Jianfang Wang . Plasmonic Driving of Liquid-Phase Chemical Reactions with Colloidal Plasmonic Nanostructures	<i>Gordon Research Conference -Plasmonically-Powered Processes:Plasmon Energy Transfer</i>
ST3	3j	10 – 12 Nov 2016, Beijing, China	Jianfang Wang . Plasmonic Enhancement of Chemical Reactions	<i>International Conference on Advancing the Chemical Sciences (ISACS)</i>
ST3	3k	4 – 8 Dec 2016, Singapore	Jianfang Wang . Keynote Presentation: Plasmonic Enhancement of Chemical Reactions	<i>9th Asian Photochemistry Conference (APC) 2016</i>
ST3	3l	1 – 5 Oct 2017, National Harbor, MD (greater Washington, DC area)	Jianfang Wang . Plasmonic Driving of Chemical Reactions	<i>232nd ECS (The Electrochemical Society) Meeting</i>
ST3	3m	21 – 25 Aug 2015, Xiamen, China	Jimmy C. Yu . Recent Development and commercialization of advanced photocatalytic technologies.	<i>The 2nd Cross-Strait Conference on Functional Materials Technology and Industry.</i>

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ST	No.	Month/Year/ Place	Title	Conference Name
ST3	3n	15 – 20 Dec 2015, Hawaii, USA	Wanjun Wang & Jimmy C. Yu . Room temperature sonochemical synthesis of red phosphorus/g-C ₃ N ₄ hybrid nanosheets for photocatalytic hydrogen evolution.	<i>Pacificchem 2015</i>
ST3	3o	3 – 6 Jan 2016, Singapore	Wenhua Zhang & Dongyan Xu . An integrated cross-plane thermoelectric generator fabricated by the pulsed electroplating and microfabrication methods	<i>The ASME 2016 5th International Conference on Micro/Nanoscale Heat and Mass Transfer</i>

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Subtopic 4: Energy Storage				
ST4	4a	16 Aug 2016, Cancun, Mexico	Yi-Chun Lu. Redox processes and design strategies for high-energy-density energy storage devices	<i>25th International Materials Research Congress</i>
ST4	4b	13 Dec 2016, Singapore	Yi-Chun Lu. High-Energy-Density Energy Storage: Redox Activities and Design Strategies	<i>9th Singapore International Chemistry Conference (SICC 9)</i>
ST4	4c	16 Feb 2017, San Francisco, USA	Yi-Chun Lu. High-Energy-Density Multiple Redox Semi-Solid-Liquid Flow Battery: Redox Processes and Design Strategies.	<i>7th Next-Generation Energy Storage</i>
ST4	4d	11 Jun 2017, Changsha, China	Yi-Chun Lu. Redox Processes and Design Strategies for High-Energy-Density Energy Storage.	<i>2nd China International Symposium on Energy Materials and Chemistry</i>
ST4	4e	16 – 19 Aug 2016, Wuhan, China	Wong Ching-ping. Hybrid Nano Battery-supercapacitor Materials for Renewable Energy Storage Applications	<i>17th International Conference on Electronic Packaging Technology (ICEPT 2016)</i>

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Subtopic 5: Microgrid Monitoring, Management, and Comprehensive Security				
ST5	5a	21 – 24 Jun 2016, Waterloo, Canada	Lei Deng, Mohammad Hajiesmaili, Minghua Chen & Haibo Zeng. Energy-efficient timely transportation of long-haul heavy-duty trucks	<i>Proceedings of the Seventh International Conference on Future Energy Systems (ACM e-Energy 2016)</i>
ST5	5b	21 – 24 Jun 2016, Waterloo, Canada	Mohammad Hajiesmaili, Chi-Kin Chau, Minghua Chen & Longbu Huang. Online microgrid energy generation scheduling revisited: The benefits of randomization and interval prediction.	<i>Proceedings of the seventh International Conference on Future Energy Systems (ACM e-Energy 2016)</i>
ST5	5c	16 – 19 May 2017, Hong Kong	Mohammad Hajiesmaili, Minghua Chen , Enrique Mallada & Chi-Kin Chau. Crowd-sourced storage-assisted demand response in microgrids.	<i>ACM e-Energy</i>
ST5	5d	2 – 5 Nov 2015, Miami, FL	Wanrong Tang & Ying Jun (Angela) Zhang . Optimal battery energy storage system control in microgrid with renewable energy generation. DOI: 10.1109/SmartGridComm.2015.7436407	<i>2015 IEEE International Conference on Smart Grid Communications (SmartGridComm): Data Management, Grid Analytics, and Dynamic Pricing</i>
ST5	5e	5 – 9 June 2017, Urbana-Champaign, USA	Lin Yang, Mohammad. Hajiesmaili, Hanling Yi & Minghua Chen . Hour-ahead offering strategies in electricity market for power producers with storage and intermittent supply.	<i>ACM SIGMETRICS (poster paper)</i>
ST5	5f	5 – 9 June 2017, Urbana-Champaign, USA	Lin Yang, Mohammad H. Hajiesmaili, Hanling Yi & Minghua Chen . Online offering strategies for storage-assisted renewable power producer in hour-ahead market	<i>ACM SIGMETRICS</i>
ST5	5g	14 -17 Jul 2015, Bangalore, India	Lei Zhan and Dahming Chiu . Encouraging energy conservation in campus dormitory via monitoring and policies.	<i>International Workshop on Distributed Energy Networks (DEN), co-located with ACM e-Energy</i>
ST5	5h	16 – 17 Nov 2016, Stanford	Lei Zhan & Dah Ming Chiu . Delivering Group-based feedback of electricity usage in campus dorms	<i>ACM BuildSys 2016, Poster</i>
ST5	5i	Feb 2017, San Francisco	Lei Zhan & Dah Ming Chiu . Data analytic policy design applied to energy conservation in college dormitories	<i>International Workshop on Artificial Intelligence for Smart Grid and Smart Buildings, AAAI 2017</i>
ST5	5j	17-21 July 2016, Boston, MA, USA	Chaorui Zhang & Ying Jun (Angela) Zhang . Optimal distributed generation placement among interconnected cooperative microgrids. DOI: 10.1109/PESGM.2016.7741179	<i>Power and Energy Society General Meeting (PESGM), 2016</i>
ST5	5k	6-9 Nov. 2016, Sydney, NSW, Australia	Chaorui Zhang & Ying Jun (Angela) Zhang . Optimal solar panel placement in microgrids. DOI: 10.1109/SmartGridComm.2016.7778790	<i>IEEE International Conference on Smart Grid Communications (SmartGridComm), 2016</i>

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ST5	5l	1 – 4 May 2017, Atlanta, US	Ying Zhang, Lei Deng, Minghua Chen & Peijian Wang. Joint bidding and geographical load balancing for datacenters: Is uncertainty a blessing or a curse?	<i>IEEE INFOCOM</i>
ST5	5m	21-25 May 2017, Paris, France	Dongwei Zhao, Hao Wang, Jianwei Huang & Xiaojun Lin. Pricing-based Energy Storage Sharing and Virtual Capacity Allocation	<i>IEEE ICC</i>
ST5	5n	10 -15 Apr 2016, San Francisco, CA	Shizhen Zhao, Xiaojun Lin, Dionysios Aliprantis, Hugo N. Villegas & Minghua Chen . Online multi-stage decisions for robust power-grid operations under high renewable uncertainty.	<i>Proceedings of IEEE INFOCOM 2016</i>

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Subtopic 6: Laboratory and Field Demonstration of MGs with PV Modules and Smart Storage				
ST6	6a	26-30 Jul 2015, Denver, CO.	Yujun Li, Zhao Xu , Kit Po Wong & Loi Lei Lai. A two-stage power dispatching algorithm for system support by droop-controlled DC grids. DOI: 10.1109/PESGM.2015.7286172	<i>Power & Energy Society General Meeting</i>
ST6	6b	17 – 21 July 2016, Boston	Jian Zhao, Can Wan & Zhao Xu . Impacts of large-scale photovoltaic generation penetration on power system spinning reserve allocation. (One of the Best Conference Papers submitted to the 2016 Power & Energy Society General Meeting)	<i>IEEE Power and Energy Society General Meeting (PES), 2016</i>
ST6	6c	17 - 21 July 2016, Boston	Songjian Chai, Ming Niu, Zhao Xu , Loi Lei Lai & Kit Po Wong, Nonparametric Conditional Interval Forecasts for PV Power Generation Considering the Temporal Dependence.	<i>IEEE Power and Energy Society General Meeting (PES)</i>
ST6	6d	18 - 21 July 2016, Futuroscope-Poitiers, France	Shunqi Zeng, Zhao Xu , Fushuan Wen & Loi Lei Lai. Chance Constrained Programming Based Optimal Network Reconfiguration in Smart Grid.	<i>2016 IEEE International Conference on Industrial Informatics (INDIN 2016)</i>