

TOPIC 2

- M-2-1 Highly Efficient Inverted Perovskite Solar Cells With Sulfonated Lignin Doped PEDOT as Hole Extract Layer
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- M-2-2 A Highly Sensitive Photodetectors Based on Organolead Triiodide Perovskites
Zilun Qin, Suling Zhao, Bo Qiao, Zheng Xu and Xurong Xu
Beijing Jiaotong University
- M-2-3 Effect of the additional electron-withdrawing unit in β -functionalized porphyrin sensitizers for dye-sensitized solar cells
Futai Lu, Yanming Zhao, Bao Zhang and Yaqing Feng
Tianjin University
- M-2-4 Solvent Effect on the Hole-conductor-free Fully Printable Perovskite Solar Cells
Yuli Xiong, Jiangzhao Chen, Yaoguang Rong and Hongwei Han
Huazhong University of Science and Technology
- M-2-5 Optimisation of low-temperature annealed printable carbon electrode for perovskite solar cells
Jiang Pei^{1,2}, Kenrick F. Anderson², Noel W. Duffy², Timothy W. Jones², Gregory J. Wilson² and Hongwei Han¹
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- M-2-6 High-performance hysteresis-free bulk-heterojunction perovskite solar cells
Senyun Ye, Haixia Rao, Weibo Yan, Yunlong Li, Weihai Sun, Zhiwei Liu, Zuqiang Bian and Chunhui Huang
Peking University
- M-2-7 CZTS/n- nano Si and CZTS/n-CdS heterojunctions
Yunus Emre Boya¹, Smagul Karazhanov² and Elif Arici¹
¹Istanbul Technical University, ²Institute for Energy Technology
- M-2-8 Hydrophobic ionic liquid gel elastomer electrolytes for stretchable fiber-shaped dye-sensitized solar cells
Houpu Li, Jiajie Guo, Hao Sun, Longbin Qiu and Huisheng Peng
Fudan University
- M-2-9 Multifunctional Photonic Crystals Structure for Perovskite Solar Cells
Xue Zhou and Yanlin Song
Institute of Chemistry, Chinese Academic of Science

- M-2-10 High efficiency aqueous-processed MEH-PPV/CdTe Hybrid solar cells with a PCE of 4.20%
Fangyuan Liu, Zhaolai Chen and Bai Yang
Jilin University
- M-2-11 The Impact of p-Type Co(III) Complexes doped spiro-OMeTAD on Performance and Stability of Planar-Heterojunction Perovskite Solar Cells
He Xi, Chun-Fu Zhang, Jing-Jing Chang, Da-Zheng Chen and Zhen-Hua Lin
Xidian University
- M-2-12 Effect of different thermal annealing ways of PbI_2 on the performance of $\text{CH}_3\text{NH}_3\text{PbI}_3$ -based perovskite solar cells
Yang Li, Zheng Xu, Suling Zhao, Bo Qiao, Di Huang, Jiao Zhao, Youqin Zhu and Peng Wang
Beijing Jiaotong University
- M-2-13 $[10\bar{1}0]$ Oriented Multichannel ZnO Nanowire Arrays
Dongqing He¹, Xia Sheng², Hongcheng Liu¹ and Xinjian Feng²
¹Heilongjiang Academy of Sciences, ²Suzhou Institute of Nano-Tech and Nano-Bionics, Chinese Academy of Sciences
- M-2-14 Carbon nanotubes/polypyrrole nanocomposites in the solar cells application
Jaroslav Kuliček¹, Pavol Gemeiner², Matej Mičušik¹, Ľubomír Švorc³, Milan Mikula² and Mária Omastová¹
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- M-2-15 Novel Squaraine Cosensitization System of Panchromatic Light-Harvesting with Synergistic Effect for Highly Efficient Solar Cells
Weiwei Zhang and Wei-Hong Zhu
East China University of Science and Technology
- M-2-16 Hybrid Solar Cell Materials Based on Organolead Halide and Oxide Perovskites
Sun-Tang Chang¹, Yen-Chun Lai^{1, 2}, Chia-Hsin Wang¹ and Yaw-Wen Yang^{1, 3}
¹National Synchrotron Radiation Research Center, ²National Tsing Hua University, ³National Tsing Hua University
- M-2-17 Improving Performance of Quantum Dot Solar Cell: Layer Modification through High Pressure Treatment
Jaehoon Kim¹, Byeong Guk Jeong², Heebeom Roh¹, Jiyun Song¹, Doh C. Lee², Wan Ki Bae³ and Changhee Lee¹
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- M-2-18 Low Temperature Processed Planar Perovskite Solar Cells with High Steady State Efficiency

Chen Tao¹, Stefanie Neutzner^{1,2}, Letizia Colella^{3,4}, Sergio Marras⁵, Ajay Ram Srimath Kandada¹, Marina Gandini¹, Michele De Bastiani¹, Giuseppina Pace¹, Liberato Manna⁵, Mario Caironi¹, Chiara Bertarelli^{1,3} and Annamaria Petrozza¹

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M-2-19 Dependence of Photovoltaic Performance on Various ITO Surface Treatment in Compact Layer Free Perovskite Solar Cells

Enqiang Zheng, Xiao-Feng Wang, Jiaying Song and Wenjing Tian
Jilin University

M-2-20 Aqueous-Processed Thin-Film Solar Cells Based on CdSe_xTe_{1-x} Nanocrystals: The Impact of Composition on Photovoltaic Performance

Qingsen Zeng, Zhaolai Chen and Bai Yang
Jilin University

M-2-21 Photo-Physical Properties of Binary Metal Perovskite Semiconductors

Baodan Zhao¹, Mojtaba-Abdi Jalebi¹, VarunKamboj¹, Satyaprasad Senanayak¹, Wanyi Nie², Aditya Mohite², Richard H. Friend¹ and Aditya Sadhanala¹

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M-2-22 Stable and Efficient Printable Mesoscopic Perovskite solar cells

Yaoguang Rong, Si Si, Huawei Liu, Xiong Li, Anyi Mei and Hongwei Han
Huazhong University of Science and Technology

M-2-23 Fast growth of large perovskite single crystal arrays for optoelectronics

Zhenkun Gu, Huizeng Li, Meng Gao and Yanlin Song
Institute of Chemistry, Chinese Academy of Sciences

M-2-24 High-performance planar perovskite solar cell based on CH₃NH₃Sn_xPb_{1-x}I₃

Yunlong Li, Weihai Sun, Zuqiang Bian, Zhiwei Liu and Chunhui Huang
Peking University

M-2-25 Unveiling Transport Dynamics in Organic/Perovskite Solar Cells

Jiajun Peng, Yani Chen, Yong Sun and Ziqi Liang
Fudan University

M-2-26 Studies on D-A-π-A structured porphyrin sensitizers with different additional electron-withdrawing unit

Bao Zhang, Futai Lu and Yaqing Feng
Tianjin University

- M-2-27 Enhanced charge-carrier characteristic of Al doped TiO₂ based Perovskite Solar Cells analysed by impedance spectroscopy
Seunghyun Rhee, Hyunho Lee and Changhee Lee
Inter-University Semiconductor Research Center
- M-2-28 Improving Film Formation and Photovoltage of Highly Efficient Inverted-Type Perovskite Solar Cells Through the Incorporation of New Polymeric Hole Selective Layers
Qifan Xue, Bin Zhang, Fei Huang, Wei Yang, Hin-Lap Yip and Yong Cao
South China University of Technology
- M-2-29 High Efficient Perovskite Solar Cell using Solution-Processable Phthalocyanine Hole Transport Layer
Quang-Duy Dao¹, Akihiko Fujii¹, Ryotaro Tsuji², Yuko Takeoka³ and Masanori Ozaki¹
¹Osaka University, ²Corporate R&D Planning and Administration Division, KANEKA Corporation, ³Sophia University
- M-2-30 Tandem Solar Cells Employing Colloidal Quantum Dots and All-Polymer Blends
Guozheng Shi, Jinan Gu and Wanli Ma
Soochow University
- M-2-31 Solvent Retarding Process of Perovskite Film Growth for Diminished Hysteresis in Planar Perovskite Solar Cells
Zhongcheng Yuan^{1, 2}, Yingguo Yang³, Zhongwei Wu¹, Sai Bai², Weidong Xu¹, Tao Song¹, Xingyu Gao³, Feng Gao² and Baoquan Sun¹
¹Soochow University, ²Linköping University, ³Shanghai Institute of Applied Physics, Chinese Academy of Sciences
- M-2-32 Efficiency Enhancement of Perovskite Solar Cells with Fullerenol as Buffer Layer
Tiantian Cao, Zhaowei Wang, Yijun Xia Bo Song, Yi Zhou and Ning Chen
Soochow University
- M-2-33 Insights for Superior Photovoltaic Properties of Lead Halide Perovskites from Time-Dependent Density Functional Theory
Guangjun Nan
University of Mons
- M-2-34 Improved Efficiency in Inverted Perovskite Solar Cells Employing Novel Small Molecules as PEDOT:PSS Replacement
Abdulrahman El Labban, Hu. Chen, Mindaugas Kirkus, Jeremy Barbe, Silvano Del Gobbo, Iain McCulloch and Jessica Eid
King Abdullah University of Science and Technology
- M-2-35 New Fullerene Design Enables Efficient Passivation of Surface Traps in High Performance p-i-n Heterojunction Perovskite Solar Cells
Yue Xing¹, Chen Sun¹, Hin-Lap Yip¹, Guillermo C. Bazan², Fei Huang¹ and Yong Cao¹

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- M-2-36 Hybrid solution-processed silicon heterojunction solar cells with PEDOT:PSS hole selective contact
Luis G. Gerling¹, Somnath Mahato², Cristobal Voz¹, Ramon Alcobilla¹ and Joaquim Puigdollers¹
¹Universitat Politècnica de Catalunya, ²Indian School of Mines
- M-2-37 Inverted Colloidal Quantum Dot Solar Cells employing fullerene materials as buffer layer with record high PCE of 7.39%
Buyi Yan¹, Jiakai Liu¹, Abdullah S. Abbas², Osman M. Bakr¹, Edward Sargent² and Aram Amassian¹
¹King Abdullah University of Science and Technology, ²University of Toronto
- M-2-38 Efficient Inverted Planar-Heterojunction Perovskite Solar Cells via Amino-based Fulleropyrrolidine as The Electron Transport Material
Yong Lee, Kunyuan Lu and Wanli Ma
Soochow University
- M-2-39 Excess Ions Concentration Induced Degradation in Planar CH₃NH₃PbI₃ Perovskite Solar Cells
Yuanhang Cheng, Ho-Wa Li, Qing-Dan Yang, Zhiqiang Guan and Sai-Wing Tsang
City University of Hong Kong
- M-2-40 Highly Efficient Electron Transport Obtained by Doping cross-linked PCBSD with Graphdiyne in Planar-Heterojunction Perovskite Solar Cells
Meng Li, Zhao-Kui Wang and Liang-Sheng Liao
Soochow University
- M-2-41 Dopant-free Spiro-Triphenylamine/Fluorene as Hole-Transporting Material for Perovskite Solar Cells with Enhanced Efficiency and Stability
Ya-Kun Wang, Zhong-Cheng Yuan, Zuo-Quan Jiang, Bao-Quan Sun and Liang-Sheng Liao
Soochow University
- M-2-42 Origin of thermal instability of CH₃NH₃PbI_{3-x}Cl_x films for photovoltaic devices
Xiaoliang Yan, Xiao Yang, Wei Wang, Wuming Yi, Yuning Wang, Heng Li, Wenhua Gu and ChuanXiang Sheng
Nanjing University of Science and Technology
- M-2-43 Polaron spin filtering in an organic ferromagnetic polymer: a dynamics simulation
Hui Wang¹, Yuan Li¹, Dong-mei Li, Bin Cui and De-Sheng Liu^{1,2}
¹Shandong University, ²Jining University
- M-2-44 Surface Modification of Cu₂O layer for effective perovskite solar cells
Weili Yu¹, Tom Wu² and Aram Amassian¹
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- M-2-45 Theoretical Insight into Hole Transport in Spiro-OMeTAD Single Crystals
Yuan Li, Haoyuan Li, Cheng Zhong, Osman M. Bakr and Jean-Luc Brédas
King Abdullah University of Science and Technology
- M-2-46 Phosphonium Halides as Both Processing Additives and Interfacial Modifiers for High Performance Planar-Heterojunction Perovskite Solar Cells
Chen Sun, Qifan Xue, Zhicheng Hu, Ziming Chen, Fei Huang, Hin-Lap Yip and Yong Cao
South China University of Technology
- M-2-47 Interfacial engineering for high performance polymer/perovskite solar cells
Yi Zhou, Xiaodong Liu, Zhaowei Wang and Bo Song
Soochow University
- M-2-48 The Role of Thickness-Insensitive Interface Layer in High-Performance Perovskite and Polymer Solar Cells
Chen Sun, Zhihong Wu, Hin-Lap Yip and Fei Huang
South China University of Technology
- M-2-49 Efficient and reproducible $\text{CH}_3\text{NH}_3\text{PbI}_{3-x}(\text{SCN})_x$ perovskite based planar solar cells
Bobo Li, Deqing Gao and Wei Huang
Nanjing Tech University
- M-2-50 The morphology of perovskite ($\text{CH}_3\text{NH}_3\text{PbI}_3$) film controlled by solvents of $\text{CH}_3\text{NH}_3\text{I}$
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University of Ulsan
- M-2-51 Planar heterojunction perovskite solar cells with low-temperature solvent vapor annealing
Sujung Park and Shinuk Cho
University of Ulsan
- M-2-52 Enhanced Performance of Organic-Inorganic Hybrid Solar Cells by FRET between Polymers and Quantum Dots with morphology control
Yong Woon Han, Eui Jin Lee and Doo Kyung Moon
Konkuk University
- M-2-53 Structural Properties of Hybrid Perovskites from First Principles
Jingrui Li, Jari Järvi, Hugo Levard and Patrick Rinke
Aalto University
- M-2-54 Factors influencing crystal growth in TiO_2 /Spacer/Carbon films and performance of hole conductor-free perovskite solar cells
Tongfa Liu, Linfeng Liu, Min Hu, Ying Yang, Lijun Zhang, Anyi Mei and Hongwei Han
Huazhong University of Science and Technology

- M-2-55 Ternary Bulk Heterojunction of Nanostructured Perovskite-Low Bandgap Polymer-PCBM for Improved Efficiency of Organic Solar Cells
Hanbin Jeong, Hansol Kim and Jae Kwan Lee
Chosun University
- M-2-56 High Efficiency Colloidal Quantum Dot Photovoltaics via Robust Self-Assembled Monolayers
Gi-Hwan Kim^{1,2}, F. Pelayo García de Arquer¹, Yung Jin Yoon², Xinzheng Lan¹, Mengxia Liu¹, Oleksandr Voznyy¹, Zhenyu Yang¹, Fengjia Fan¹, Alexander H. Ip¹, Pongsakorn Kanjanaboos¹, Sjoerd Hoogland¹, Jin Young Kim² and Edward H. Sargent¹
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- M-2-57 Hydration water improved organic-inorganic perovskite layer for efficient planar solar cell
Li Lin¹, Sijian Yuan¹, Pengfei Wang¹, Huotian Zhang¹, Li Tu¹, Wang Jiao¹, Yiqiang Zhan¹ and Lirong Zheng^{1,2}
¹Fudan University, ²Royal Inst Technol KTH, iPack VINN Excellence Ctr
- M-2-58 Novel (D- π -)₂D- π -A Type Organic Dyes for Efficient Dye-Sensitized Solar Cells
Vinich Promarak¹, Terdkait Kaewpuang¹, Narid Prachumrak¹, Supawadee Namuangruk², Siriporn Jungsuttiwong³, Taweesak Sudyoadsuk¹ and Pichaya Pattanasattayavong¹
¹Vidyasirimedhi Institution of Science and Technology, ²National Science and Technology Development Agency, ³Ubon Ratchathani University
- M-2-59 Fast Preparation of Compact Perovskite Film without Additional Annealing via Spray-coating
Zhuoneng Bi^{1,2}, Zhurong Liang^{1,2} and Xueqing Xu^{1,2}
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- M-2-60 Reduced Charge Recombination in Perovskite Solar Cells by Interface Engineering with an Ultra-thin Al₂O₃ thin film
Zhurong Liang^{1,2}, Zhuoneng Bi^{1,2} and Xueqing Xu^{1,2}
¹Guangzhou Institute of Energy Conversion, Chinese Academy of Sciences, ²University of Chinese Academic of Sciences
- M-2-61 Bilayered Photoanode Based on ZnO Hollow Sphere and Hierarchical TiO₂ for High Efficiency Dye-sensitized Solar Cells
Peilu Zhao, Fengmin Liu, Peilu Zhao, Pengfei Cheng and Geyu Lu
Jilin University
- M-2-62 Iodine and Chlorine Element Distribution in High-quality CH₃NH₃PbI_{3-x}Cl_x Thin Films for Efficient Planar Heterojunction Perovskite Solar Cells
Han Wu¹, Chenghao Cao¹, Yongli Gao^{1,2} and Junliang Yang¹
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- M-2-63 Electropolymerized Porous Polyperylene diimide Films for n/p-type Supercapacitor

Leiqiang Qin, Zengqi Xie and Yuguang Ma
South China University of Technology

M-2-64 Functionalized Micron Carbon Fiber for Flexible Wire-type Solar Cells and Electrochemical Capacitors

Xin Cai¹ and Dechun Zou²

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M-2-65 Highly Efficient Planar Perovskite Solar Cells Via Interfacial Modification with Fullerene Derivatives

Qian Xu, Yang Dong, Wenhua Li, Xuejuan Zhang, Qian Liu, Cuihong Li and Zhishan Bo

Beijing Normal University

M-2-66 Efficient hole-transport layer free mesoporous perovskite solar cells with thin NiO/carbon nanotubes film counter electrode

Shuangshuang Liu, Kun Cao, Hao Li and Mingkui Wang

Huazhong University of Science and Technology

M-2-67 Towards toxicity removal by B-doped Binary Metal Perovskite Solar Cells

Xuxia Shai, Hao Li, Shuangshuang Liu, Dan Li and Mingkui Wang

Huazhong University of Science and Technology

M-2-68 High efficient planar-heterojunction solar cells achieved by using a smooth CH₃NH₃PbI₃ film via a new approach of forming the PbI₂ nanostructure together with strategically high CH₃NH₃I concentration

Hong Zhang and Wallace C. H. Choy

The University of Hong Kong

M-2-69 2D/3D Perovskite Hybrids as Moisture-Tolerant and Efficient Light Absorbers for Solar Cells

Chaoyan Ma¹, Chongqian Leng², Yixiong Ji¹, Xingzhan Wei¹, Kuan Sun², Linlong Tang¹, Jun Yang¹, Wei Luo¹, Chaolong Li¹, Yunsheng Deng¹, Shuanglong Feng¹, Jun Shen¹, Chunlei Du¹, Haofei Shi¹ and Shirong Lu¹

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M-2-70 Modification of Ultra-thin NPB Interlayer on the Electronic Structures of the CH₃NH₃PbI₃/NPB/MoO₃ Interface

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M-2-71 Light Induced Metastable Modification of Optical Properties in CH₃NH₃PbI_{3-x}Br_x Perovskite Films: Two-Step Mechanism

Xiao Yang, Xiaoliang Yan, Wei Wang, Heng Li and ChuanXiang Sheng

Nanjing University of Science and Technology

- M-2-72 A well developed QD films in Quantum dot sensitized solar cells
Jia Yang and Dehu Cui
Southern University of Science and Technology of China
- M-2-73 Steady-state charge carrier transport and Hall effect studies of carrier recombination, lifetimes and diffusion lengths in hybrid perovskites
Yuanzhen Chen^{1,2}, Hee Taek Yi¹, Xiaoxi Wu³, Ross Haroldson⁴, Yuri Gartstein⁴, Anvar Zakhidov⁴, Xiaoyang Zhu³ and Vitaly Podzorov¹
¹Rutgers University, ²South University of Science and Technology of China, ³Columbia University, ⁴University of Texas
- M-2-74 Bulk Growth and Properties of Lead Free Hybrid Tin Perovskite Single Crystals
Yangyang Dang and Xutang Tao
Shandong University
- M-2-75 Enhancing the stability of perovskite solar cell
Deqing Gao and Bobo Li
Nanjing Tech University
- M-2-76 The self healing behavior of the organolead halide perovskite film for the large scale production
Shuping Pang
Qingdao Institute of Bioenergy and Bioprocess Technology, Chinese Academy of Sciences
- M-2-77 Dynamical co-existence of photoinduced excitons and free carriers in CH₃NH₃PbI₃ perovskite
Shufeng Wang
Peking University
- M-2-78 Printing of semi-transparent perovskite solar cells
Yong Peng, Fuzhi Huang, Jie Zhong, Zhiliang Ku and Yibing Cheng
Wuhan University of Technology
- M-2-79 Determination of carrier profiles from capacitive extraction current transients
Oskar J. Sandberg, Mathias Nyman, Staffan Dahlström, and Ronald Österbacka
Åbo Akademi University
- M-2-80 Mercury Lab Management System for PV Device Data Analysis
Torben Damgaard Nielsen and Rick Hamilton
FOM Technologies

TOPIC 4

- M-4-1 Tuning the Photophysical Properties and Electroluminescence Performances of Thermally Activated Delayed Fluorescence (TADF) Materials through Tailoring the Phenyl-bridge between Donor (D) - Acceptor (A) Units Based on Phenoxathiine Derivatives

Kunkun Liu, Shi-jian Su and Yong Cao
South China University of Technology

- M-4-2 “Rate-Limited Effect” of Reverse Intersystem Crossing Process: the Key for Tuning Thermally Activated Delayed Fluorescence Lifetime and Efficiency Roll-Off of Organic Light Emitting Diodes
Xinyi Cai, Yong Cao and Shi-Jian Su
South China University of Technology
- M-4-3 Applying the D–A and D–A1–D–A2 Approach to Polymers for Near-Infrared Polymer Light-Emitting Diodes
Petri Murto¹, Alessandro Minotto², Franco Cacialli², Mats R. Andersson^{1,3} and Ergang Wang¹
¹Chalmers University of Technology, ²University College London, ³University of South Australia
- M-4-4 Highly Efficient and High Color-Rendering Index Pure Organic White Organic Light-Emitting Diodes Based on a Chromaticity Adjustable Yellow Thermally Activated Delayed Fluorescence Emitter
Xiang-Long Li, Gaozhan Xie, Ming Liu and Shi-Jian Su
South China University of Technology
- M-4-5 The effect of methanol treatment on the performance of PLED based on low-conductive PEDOT:PSS
Chen Song, Zhiming Zhong, Lei Ying, Junbiao Peng, Jian Wang and Yong Cao
South China University of Technology
- M-4-6 Molecular Design of Electrolytes for Fast, Efficient and Long-Lived Light-Emitting Electrochemical Cells
Jonas Mindemark, Shi Tang and Ludvig Edman
Umeå University
- M-4-7 Small molecular host materials containing 1,2,4-oxadiazole for solution-processed blue phosphorescent OLEDs
Hua Ye^{1,2}, Shi-Jian Su² and Guobing Yan¹
¹Lishui University, ²South China University of Technology
- M-4-8 A Thermo- and Photo- stable Terbium Complex as a Promising Emitting Material in OLEDs
Zifeng Zhao, Gang Yu, Xiaochen Liu, Zhiwei Liu, Zuqiang Bian and Chunhui Huang
Peking University
- M-4-9 Patterned Light Emission from New Bilayer Light-emitting Electrochemical Cell Architectures
E. Mattias Lindh, Andreas Sandström and Ludvig Edman
Umeå University
- M-4-10 Phosphorescence Enhancement of Red-emitting Iridium(III) Complexes with Formyl-functionalized Phenylpyridine Ligands
Xu Liu¹, Sizhen Cao¹, Wen-Yong Lai¹ and Wei Huang^{1,2}

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- M-4-11 6,9-Disubstituted Phenanthroimidazole Derivatives for Non-doped Blue Electroluminescence Devices with High Efficiency
Yi Yuan¹, Qing-Xiao Tong² and Liang-Sheng Liao¹
¹Soochow University, ²Shantou University
- M-4-12 Solution-processed Tandem Organic Light-Emitting Devices
Tatsuya Hikichi, Yong-Jin Pu, Takayuki Chiba, Satoru Ohisa and Junji Kido
Yamagata University
- M-4-13 Highly Efficient Deep-Red Electrophosphorescent Devices Based on A Novel Bipolar Iridium Complex
Guomeng Li, Yu Liu and Yue Wang
Jilin University
- M-4-14 The Dual-Fluorescence of Phenanthroimidazole substituted Phenothiazine
Xin He, Zhao Gao and Ping Lu
Jilin University
- M-4-15 Extremely deep-blue fluorescent emitters with CIE_y < 0.05 for non-doped organic light-emitting diodes based on an indenophenanthrene core
Seongjin Jeong, Hongchul Lim and Jong-In Hong
Seoul National University
- M-4-16 Novel Iridium Complexes as Yellow Phosphorescent Emitters for Single -Layer Yellow and White Polymer Light-Emitting Diodes
Aihui Liang and Gui Huang
Jiangxi Normal University
- M-4-17 Design and Synthesis of Anthraquinone based Donor-Acceptor Molecules
Mingming Yao¹, Bing Yang¹ and Yuguang Ma²
¹Jilin University, ²South China University of Technology
- M-4-18 Electrical degradation of polymer light emitting diodes
Quan Niu, Paul W. M. Blom and Irina N Craciun
Max-Planck-Institut für Polymerforschung, Mainz
- M-4-19 Investigation of electroluminescence mechanism in exciplex TADF system with a fluorescence dopant
Peng Wang, Suling Zhao, Zheng Xu and Bo Qiao
Beijing Jiaotong University
- M-4-20 Development of highly efficient and long lifetime deep red organic light-emitting devices

Yuji Nagai, Hisahiro Sasabe, Jun Takahashi, Natsuki Onuma and Junji Kido
Yamagata University

M-4-21 The Control of Conjugation Lengths and Steric Hindrance to Modulate Aggregation-Induced Emission with High Electroluminescence Properties and Interesting Optical Properties

Miao-miao Xue, Zuo-Quan Jiang and Liang-Sheng Liao
Soochow University

M-4-22 Shape-controlled Synthesis of Cesium Lead Bromide Perovskite Nanocrystals with Bright Blue Emission

Zhiqin Liang, Bo Qiao, Suling Zhao and Zheng Xu
Beijing Jiaotong University

M-4-23 A series of blue thermally activated delayed fluorescent emitters containing oligopyridine and acridine moieties

Yuya Hayasaka, Hisahiro Sasabe, Ryutaro Komatsua, Kohei Nakao and Junji Kido
Yamagata University

M-4-24 Integration of Aggregation-Induced Emission and Delayed Fluorescence in Electron Donor-Acceptor Conjugates

Shifeng Gan¹, Zujin Zhao¹ and Ben Zhong Tang^{1,2}
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M-4-25 The effect of different binding sites on the optical properties in two tetraphenylethylene-substituted thiophene derivatives

Jinyu Li and Ping Lu
Jilin University

M-4-26 Development of a series of lithium complexes with a phenylbipyridine ligand as an electron injection material for OLEDs

Taichiro Karasawa, Hisahiro Sasabe, Yuichiro Watanabe and Junji Kido
Yamagata University

M-4-27 Molecular Design of Host Materials for High Efficient Blue Phosphorescent Organic Light-Emitting Diodes

Fu-Peng Wu, Zuo-Quan Jiang and Liang-Sheng Liao
Soochow University

M-4-28 A novel microsecond-scale phosphorescence based on twisted intramolecular charge transfer from purely organic materials

Yang Liu, Ge Zhan, Zhiwei Liu, Zuqiang Bian and Chunhui Huang
Peking University

M-4-29 The application of stored charges in alternating current driven electroluminescence

Chengwen Zhang, Suling Zhao, Bo Qiao, Zheng Xu and Xurong Xu
Beijing Jiaotong University

M-4-30 Horizontal molecular orientation in solution-processed organic light-emitting diodes

L. Zhao, T. Komino, M. Inoue, J.-H. Kim, J.C. Ribierre and C. Adachi
Kyushu University

M-4-31 A New Method to Fabricate Organic Light Emitting Device and Film Contrast with Traditional Methods

Bo Wang, Jian Liang, Zhaokui Wang and Liangsheng Liao
Soochow University

M-4-32 A High Crystalline and Wide Bandgap Polydiarylfuorene with β -Phase Conformation towards Stable Electroluminescence and Dual Amplified Spontaneous Emission

Bin Liu¹, Jinyi Lin², Feng Liu², Mengna Yu¹, Xinwen Zhang¹, Ruidong Xia¹, Tao Yang¹, Yueting Fang¹, Linghai Xie¹ and Wei Huang^{1,2}

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M-4-33 Flexible organic optoelectronic devices using AgNW-PEDOT:PSS composite transparent electrode

Eui Dae Jung, Yun Seok Nam, Houn Seo, Bo Ram Lee, Jae Choul Lee, Sang Yun Lee, Ju-Young Kim, Jang-Ung Park and Myoung Hoon Song
Ulsan National Institute of Science and Technology

M-4-34 Achieving remarkable mechanochromism and white-light emission with thermally activated delayed fluorescence through the molecular heredity principle

Bingjia Xu¹, Yingxiao Mu¹, Zhu Mao¹, Zongliang Xie¹, Haozhong Wu¹, Yi Zhang¹, Chongjun Jin¹, Zhenguo Chi¹, Siwei Liu¹, Jiarui Xu¹, Yuan-Chun Wu², Po-Yen Lu², Alan Lien² and Martin R. Bryce³

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M-4-35 High-efficiency multi-photon emission blue phosphorescent OLEDs with external quantum efficiency exceeding 55%

Katsuyuki Hotta, Hisahiro Sasabe, Kazuo Udagawa, Fumiaki Igarashi and Junji Kido
Yamagata University

M-4-36 Improved Electroluminescence Performance Through Tuning the Torsion Angle and Distance of the Donor–Acceptor Molecules

Shanfeng Xue, Xu Qiu and Wenjun Yang
Qingdao University of Science & Technology

M-4-37 Theoretical Studies of Luminescent Properties of Organic materials

Qian Peng¹, Yuanping Yi¹ and Zhigang Shuai²

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- M-4-38 Molecular Control and Balance between Charge Injection Currents at Electrodes and at Organic Layer Interfaces in Organic Electroluminescent Devices
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New Mongol Institute of Technology
- M-4-39 One-Step Synthesis of Supramolecular Conjugated Polymer Nanosphere: Toward Potential Application in Opto-electronic Colloidal Crystal and Light-emitting Diodes
Meng-Na Yu, Bin Liu, Jin-Yi Lin, Wen-Sai Zhu, Ling-Hai Xie and Wei Huang
Nanjing University of Posts & Telecommunications
- M-4-40 Efficient Organic-Inorganic Hybrid Perovskite LEDs based on nanostructure control
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South China University of Technology
- M-4-41 Flexible and wearable fiber-shaped polymer light-emitting electrochemical cells
Zhitao Zhang, Yiming Li, Guozhen Guan, Xuemei Sun and Huisheng Peng
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- M-4-42 Effect of Hole-Transporting Layer on the Interfacial Degradation of Blue Fluorescent Organic Light-Emitting Diodes
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Seoul National University
- M-4-43 High Hole Mobility of Sky-blue Emission Iridium Complex Bearing Triphenylene Moiety: Enhanced device Performance for the Annealed Emissive layer
Yafei Wang^{1,2,3}, Jiang Fan², Hua Tan², Yu Liu², Weiguo Zhu² and Etienne Baranoff¹
¹University of Birmingham, ²Xiangtan University, ³South China University of Technology
- M-4-44 Extremely Bright and Efficient Undoped Organic Lighting-Emitting Diodes Based on Tailored Tetraphenylethenes Carrying Donor-Acceptor Substituents
Gengwei Lin¹, Zujin Zhao¹, Shuming Chen² and Ben Zhong Tang^{1,3}
¹South China University of Technology, ²South University of Science and Technology of China, ³The Hong Kong University of Science and Technology
- M-4-45 Reliable Prediction of the Singlet-Triplet Gap in Organic Emitters for Thermally Activated Delayed Fluorescence (TADF) with Optimally-tuned Range-Separated Functionals
Haitao Sun^{1,2}, Cheng Zhong² and Jean-Luc Brédas²
¹East China Normal University, ²King Abdullah University of Science and Technology
- M-4-46 Perovskite nanostructures for light-emitting diodes
Dawei Di
University of Cambridge

- M-4-47 Adamantane-Based Host Materials for Highly Efficient Blue and All-Phosphor White Phosphorescent Organic Light-Emitting Diodes
Shaolong Gong¹, Yu Gu¹, Nan Jiang², Zheng-Hong Lu² and Chuluo Yang¹
¹Wuhan University, ²Yunnan University
- M-4-48 Synthesis and Properties of Near-Infrared Emission of Binuclear Cyclometalated Iridium(III) Complexes with a Hole or Electron Bridging Ligands
Yu Liu¹, Zhaoran Hao¹, Fanyuan Meng^{1,2}, Hua Tan¹, Yafei Wang¹, Shijian Su² and Weiguo Zhu¹
¹Xiangtan University, ²South China University of Technology
- M-4-49 Realization of Highly-Dense Al₂O₃ Gas Barrier for Top Emission Organic Thin Film Transistors by Atomic Layer Deposition
Min Li¹, Dongyu Gao², Zhongwei Zhou¹, Jianhua Zou¹, Hong Tao¹, Lei Wang¹, Miao Xu¹ and Junbiao Peng¹
¹South China University of Technology, ²Guangzhou New Vision Optoelectronic Co., Ltd.
- M-4-50 Highly Efficient Transparent Organic Light-Emitting Diodes using Transparent Electrodes with Charge Carrier Balance
Sang Yun Lee, Nam Yun Seuk, Eui Dae Jung and Myoung Hoon Song
Ulsan National Institute of Science and Technology
- M-4-51 Synthesis, characterization and the photophysical property of twist heptatomic biphenyl substituted perylene diimides
Jianmin Wang, Enfang He, Lan Yu, Lele Zhao and Haiquan Zhang
Yanshan University
- M-4-52 Rational Design towards Highly Efficient Long Wavelength TADF Materials and Devices
Shipan Wang, Xianju Yan and Yue Wang
Jilin University
- M-4-53 Efficient Near-Infrared Emission of Tetradentate Bis-Cyclometalated Platinum (IV) Complexes in Solution-Processed Polymer Light-Emitting Diode
Youming Zhang¹, Fanyuan Meng^{1,2}, Caifa You¹, Shengyi Yang¹, Wenjing Xiong¹, Hua Tan¹, Yafei Wang¹, Yu Liu¹, Shijian Su³ and Weiguo Zhu^{1,2}
¹Xiangtan University, ²Changzhou University, ³South China University of Technology
- M-4-54 Organic Crystals with Torsional Vibration Confinement Induced Emission and Stimuli Responsive Properties
Jinbei Wei, Weiping Chen, Shipan Wang and Yue Wang
Jilin University
- M-4-55 Highly-Efficient Perovskite Nanocrystal Light-Emitting Diodes Enabled by a Universal Cross-linking Method
Guangru Li¹, Florencia Wisnivesky Rocca Rivarola¹, Nathaniel J. L. K. Davis¹, Sai Bai², Tom C.

Jellicoe¹, Francisco de la Peña¹, Shaocong Hou¹, Caterina Ducati¹, Feng Gao², Richard H. Friend¹, Neil C. Greenham¹ and Zhi-Kuang Tan^{1,3}

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M-4-56 White Polymer Light-Emitting Diodes Based on Exciplex from Polymer Blends and Electroluminescence a Single Polymer

Junfei Liang, Sen Zhao, Lei Ying and Wei Yang

South China University of Technology

M-4-57 High Performance AIE-active Deep Blue OLEDs with an External Quantum Efficiency of 4.98%

Chenglong Li, Zhiqiang Li and Yue Wang

Jilin University

M-4-58 Enhanced the performance of Blue quantum-dot light-emitting diodes based on Mg-doped ZnO

Minming Yan, Yongtian Zhou, Li Liu and Yong Zhang

South China Normal University

M-4-59 Molecular Modification on Bisphenanthroimidazole Derivative for Deep-Blue Organic Electroluminescent Material with Ambipolar Property and High Performance

Wen-Cheng Chen¹, Chun-Sing Lee¹ and Qing-Xiao Tong²

¹City University of Hong Kong, ²Shantou University

M-4-60 A Series of New Luminescent Non-Planar 1,8-naphthyridine Derivatives Giving Coloured and Close-to-White Electroluminescence Spectra

Bronė Lenkevičiūtė-Vasiliauskienė¹, Indrė Urbanavičiūtė², Sigita Višniakova¹, Justina Dirsyte¹, Giedrius Juška¹, Ernesta Bužavaitė¹, Albinas Žilinskas¹ and Kęstutis Arlauskas¹

¹Vilnius University, ²Linköping University

M-4-61 Highly efficient near-infrared emission from binuclear cyclo-metalated platinum complexes with 1,3,4-oxadiazoles-2-thiol units

Wenjing Xiong¹, Fanyuan Meng^{1,3}, Hua Tan¹, Yafei Wang¹, Shijian Su³ and Weiguo Zhu^{1,2}

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M-4-62 Electron Injection Mechanism of the Aliphatic-amine Based Materials: Facilitating the Electron Injection by Hole-trapping Effect

Zhiming Zhong, Zhanhao Hu, Jian Wang, Junbiao Peng and Yong Cao

South China University of Technology

M-4-63 Pyridyl Pyrrolide Boron Complexes: The Facile Generation of Thermally Activated Delayed Fluorescence and Preparation of Organic Light-Emitting Diodes

Yi-Jiun Shiu¹, Yung-Chen Cheng², Wei-Lung Tsai¹, Chung-Chih Wu¹, Chun-Tien Chao², Chin-Wei Lu², Yun Chi², Yi-Ting Chen¹, Shih-Hung Liu¹ and Pi-Tai Chou¹

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- M-4-64 Highly Efficient Flexible and Transparent PLEDs with AgNWs-PEDOT:PSS Hybrid Electrodes Using Surface Modified Film Transfer
Yun Seok Nam, Sang Yun Lee and Myoung Hoon Song
Ulsan National Institute of Science and Technology
- M-4-65 Photoluminescent and electroluminescent properties of three novel cationic iridium(III) complexes with 1,10-phenanthroline or its derivatives as auxiliary ligands
Huaijun Tang¹, Zeyu Chen¹, Liying Wei¹, Jingsheng Miao², Guoyun Meng¹, Yonghui He¹ and Hongbin Wu²
¹Yunnan Minzu University, ²South China University of Technology
- M-4-66 Research on Cu-Cr alloy bus line in AOS TFT
Honglong Ning, Shibei Hu, Feng Zhu, Xianzhe Liu, Ruiqiang Tao, Yong Zeng, Rihui Yao, Miao Xu, Lei Wang, Linfeng Lan and Junbiao Peng
South China University of Technology
- M-4-67 Wide Color-range tunable and Low Roll-off Fluorescent Organic Light Emitting Devices Based on Double Undoped Ultrathin Emitter
Ting Xu¹, Meijun Yang², Jun Liu², Gufeng He² and Hong Meng¹
¹Shenzhen Graduate School, Peking University, ²Shanghai Jiao Tong University
- M-4-68 Highly Efficient Top-emitting Quantum Dot Light-emitting Diodes with External Quantum Efficiency Exceeding 20%
Guohong Liu^{1,2}, Shuming Chen² and Xiang Zhou¹
¹Sun Yat-Sen University, ²South University of Science and Technology of China
- M-4-69 The Chemical Stability and Rational Design Strategy of Highly Efficient Blue-Emitting Materials for OLEDs
Juan Qiao and Na Lin
Tsinghua University
- M-4-70 Highly Efficient Yellowish-Green Emitting Organic Light-Emitting Diodes Based on Sublimable Bipolar Cationic Cuprous Complexes with Thermally Activated Delayed Fluorescence
Fuli Zhang¹, Yuqiao Guan², Xulin Chen³, Shufen Chen², Suzhi Li¹, Canzhong Lu³, Guangxiu Cao¹ and Bin Zhai¹
¹Shangqiu Normal University, ²Nanjing University of Posts and Telecommunications, ³Fujian Institute of Research on the Structure of Matter, Chinese Academy of Sciences
- M-4-71 Evidence for alkali metal formation at a cathode interface of organic devices by thermal decomposition of alkali metal compounds during their vapor deposition
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New Mongol Institute of Technology

- M-4-72 All-solution Processed PLED Displays with Low Turn-on Voltage
Hua Zheng¹, Qiaoqiao Song², Yongzhao Xu¹, Yina Zheng² and Jian Wang²
¹Dongguan University of Technology, ²South China University of Technology
- M-4-73 Thin film encapsulation for Organic electronics
Zheng Chen, HaoRan Wang, Chen Ping, Zhao Yi and Yu Duan
Jilin University
- M-4-74 From Mononuclear to Dinuclear IrIII Complex: Effective Tuning of the Optoelectronic Characters for Organic Light-Emitting Diodes
Xiaolong Yang¹, Xianbin Xu¹, Jing-shuang Dang¹, Guijiang Zhou¹, Cheuk-Lam Ho^{2,3} and Wai-Yeung Wong^{2,3}
¹Xi'an Jiaotong University, ²Hong Kong Baptist University, ³HKBU Institute of Research and Continuing Education, Shenzhen Virtual University Park
- M-4-75 Application of Electrochemical Polymerization Technology in AMOLED
Rong Wang, Linlin Liu and Yuguang Ma
South China University of Technology
- M-4-76 Tailoring Photophysical Properties via Subtle Structural Modifications Based on Pyridal[2,1,3]thiadiazole for Highly Efficient Deep-red OLED Applications
Jianxia Jiang, Dehua Hu, Zengqi Xie and Yuguang Ma
South China University of Technology
- M-4-77 Triphenylamine-BODIPY dyes for highly luminescent solution processable OLEDs
Hongcheng Gao, Zengqi Xie and Yuguang Ma
South China University of Technology
- M-4-78 Synthesis of highly luminescent CIS/ZnS@SiO₂ quantum dots for its application in white light-emitting diodes
Hu Jin^{1,2}, Kelai Wang^{1,2}, Dehui Xie^{1,3}, Jingling Li^{1,2}, Zhurong Liang^{1,2} and Xueqing Xu^{1,2}
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- M-4-79 Enhancing Performance of Polymer Light-Emitting Diodes by Optical and Electrical Properties via Gold Nanoparticles
Xiaoyan Wu, Yiqi Zhuang, Linlin Liu and Yuguang Ma
South China University of Technology
- M-4-80 Bandgap Engineering of Fluorescent Conjugated Microporous Polymers for Chemical Sensing
Xiaoyan Wang, Chong Zhang, Yang Zhao and Jia-Xing Jiang
Shaanxi Normal University
- M-4-81 Planar p/n Heterojunction OLEDs

Dongcheng Chen and Shi-jian Su
South China University of Technology

M-4-82 Synthesis and Photoluminescence Properties of CuInS₂/CdS Quantum Dots

Dehui Xie^{1,2}, Hu Jin^{1,3}, Kelai Wang^{1,2}, Xiaoling Cheng² and Xueqing Xu^{1,3}

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TOPIC 5

M-5-1 Doping optimization of the thermoelectric figure of merit in organic-inorganic hybrid perovskite CH₃NH₃PbI₃

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M-5-2 Structure and Properties of Metal Dithiolene Complex with Hydrogen-bonding Network

Yojiro Kimura¹, Mikihiro Hayashi¹, Mitsuhiro Maesato¹, Kunihisa Sugimoto^{2,3} and Hiroshi Kitagawa¹

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M-5-3 Thermoelectric Properties of PEDOT/PSS-HNTs Hybrid Films

Hu Yan

Zhengzhou University

M-5-4 Spin dynamics in the low magnetic field region of λ -(BETS)₂FeCl₄; ¹³C-NMR analysis

K. Hiraki¹, T. Takahashi¹ and R. Kato²

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M-5-5 PEDOT/PSS-PAM-HNTs Hybrid Films

Ying-Jun An, Hui-Lin She and Hu Yan

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M-5-6 Solid-state Dispersion of Single-walled Carbon Nanotubes in Ionic Polymer and Its Application in Enhanced Thermoelectric Properties

Motohiro Nakano, Yoshiyuki Nonoguchi, Takuya Nakashima and Tsuyoshi Kawai

Nara Institute of Science and Technology

M-5-7 Towards High Performance n-Type Thermoelectric Materials by Rational Modification of BDPPV Backbones

Ke Shi, Jie-Yu Wang and Jian Pei

Peking University

M-5-8 Impact of Doping on Density of States and Hole Mobility in Disordered Organic Semiconductors

Guangzheng Zuo, Hassan Abdalla and Martijn Kemerink

Linköping University

- M-5-9 Design and Fabrication of Free-Standing Conducting Polymer Thin-Films and Their Tunable Thermoelectric Performance
Fengxing Jiang, Yongjing Hu and Jingkun Xu
Jiangxi Science and Technology Normal University
- M-5-10 Synthesis and Physical Properties of Single-component Molecular Metals, $[M(\text{dmdt})_2]$ (M = Pd and Pt)
Tatsuru Ishii, Ayumi Yanagawa, Qi Zhi Liu and Biao Zhou
Nihon University
- M-5-11 PEDOT:PSS-Based Composite Thin-Film Thermoelectric Material and Its development
Jingkun Xu, Fengxing Jiang and Congcong Liu
Jiangxi Science and Technology Normal University
- M-5-12 Pyroelectric Determination of Spontaneous Polarization and Its Anisotropy in a Ferroelectric Organic Conductor α -(BEDT-TTF) $_2$ I $_3$ by Temperature Modulation Method
Kaoru Yamamoto, Tomohiro Suzuki, Koichi Murata, Kenta Matsumoto, Hiroki Kawashima and Sunao Yokoyama
Okayama University of Science
- M-5-13 Conductivity and gate-modulated conductivity of 12-S-atom TTP derivatives
Qi Fang¹, Ke Zhou², Hong-feng Chen¹, Hong Lei¹ and Wen-ping Hu²
¹Shandong University, ²Institute of Chemistry, Chinese Academy of Sciences
- M-5-14 Synthesis and Physical Properties of Single-component Molecular Conductor, $[\text{Pd}(\text{hdft})_2]$
Qi Zhi Liu¹, Biao Zhou¹, Satomi Ogura¹, Hidetaka Kasai², Eiji Nishibori² and Akiko Kobayashi¹
¹Nihon University, ²University of Tsukuba
- M-5-15 Enhancing zT along the chain direction of conducting polymers by introducing disorder
Wen Shi¹, Dong Wang¹ and Zhigang Shuai^{1,2,3}
¹Tsinghua University, ²Institute of Chemistry, Chinese Academy of Sciences, ³Xiamen University
- M-5-16 Study on Surface Morphology and Electrical Performance of PEDOT:PSS Thin Films By H $_2$ SO $_4$ Treatment
Jae Gyu Jang¹, Jaeyun Kim², Sung Hyun Kim¹ and Jeonghun Kwak²
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- M-5-17 Enhanced opto-electronic properties of PEDOT:PSS film and its application as transparent electrode
Kuan Sun¹, Yongli Zhou¹, Falin Wu¹, Pengcheng Li² and Jianyong Ouyang²
¹Chongqing University, ²National University of Singapore
- M-5-18 Proton conducting behavior in the single crystal of imidazolium dicarboxylates

Yoshiya Sunairi, Junya Yoshida, Akira Ueda and Hatsumi Mori
The University of Tokyo

M-5-19 Design and Fabrication of Flexible Thermoelectric Generator Modules Using Sorbitol-Doped PEDOT:PSS

Jaeyun Kim and Jeonghun Kwak
The University of Seoul

M-5-20 ^{195}Pt -NMR study of $(\text{Me}_4\text{P})[\text{Pt}(\text{dmit})_2]_2$

M. Takagi¹, K. Otsuka¹, T. Yoshikawa¹, K. Hiraki¹, T. Takahashi¹ and R. Kato²
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M-5-21 Ionic Thermoelectric properties of polyelectrolyte and Nanofibrillated cellulose(NFC) composites

Fei Jiao, Ujwala Ail, Dan Zhao, Jesper Edberg and Xavier Crispin
Campus Norrköping, Linköping University

M-5-22 Anion dynamics of $(\text{TMTSF})_2\text{FSO}_3$ under pressure; ^{19}F -NMR analysis

H. Kurahashi¹, A. Yajima¹, K. Hiraki¹, T. Takahashi¹, Haeyong Kang², Y. J. Jo², W. Kang² and O. H. Chung³
¹Gakushuin University, ²Ewha Womans University, ³Sunchon University

M-5-23 A New Type of Purely Organic Conductor based on $(\text{H}_2\text{Cat})_2\text{-TTF}$: Deprotonation-induced Unique Hydrogen-bond/Electronic Structures

Junya Yoshida¹, Akira Ueda¹, Reiji Kuma², Murakami Youichi², Hiromichi Yamakawa¹, Tatsuya Miyamoto¹, Hiroshi Okamoto¹ and Hatsumi Mori¹
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M-5-24 Photoinduced p- to n-type Switching in Thermoelectric Polymer-Carbon Nanotube Composites

Bernhard Dörfling¹, Jason D. Ryan², John D. Craddock³, Andrea Sorrentino⁴, Ahmed El Basaty^{1,5}, Andrés Gomez¹, Miquel Garriga¹, Eva Pereiro⁴, John E. Anthony³, Matthew C. Weisenberger³, Alejandro R. Goñi^{1,6}, Christian Müller² and Mariano Campoy-Quiles¹
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M-5-25 NMR study of one dimensional charge transfer complex, HMTSF-TCNQ

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M-5-26 A Novel Synthetic Route for PEDOT-PSS Nanocomposites via Fe^{3+} Catalyzed Oxidative Polymerization

Sun-Young Kim^{1,2}, Sangwan Kim¹, Sung-Koo Lee¹, Sunjong Lee¹ and Donghyuk Park²

¹Korea Institute of Industrial Technology, ²Inha University

M-5-27 Conjugated Redox Polymers: Correlation between Electronic Structure and Energy Storage Capability

Yanliang Liang¹, Zhihua Chen², Fang Hao¹, Antonio Facchetti² and Yan Yao¹

¹University of Houston, ²Polyera Corporation

M-5-28 Self-Assembled Nanostructures and Highly Conductive Behavior of Perylene Bisimide Anions for the Application in Thermoelectric Devices

Wenqiang Zhang, Zengqi Xie and Yuguang Ma

South China University of Technology

TOPIC 7

M-7-1 Self-assembled Ionic Liquid Layer as a Cathode Buffer Layer for Polymer Solar Cells

Jian Zhang

Guilin University of Electronic Technology

M-7-2 1,3,5-triazine crosslinked 2,5-dibromohydroquinone as new hole-transport material in polymer light-emitting diodes

Yuan Li¹, Yuyuan Xue¹, Lianpeng Xia², Lintao Hou² and Xueqing Qiu¹

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M-7-3 Interface properties of N3 dye molecule covalently bonded on the transparent conductive nanocrystalline diamond electrodes

Xianjie Liu¹, Wengsiang Yeap², Ken Haenen² and Mats Fahlman¹

¹Linköping University, ²Hasselt University

M-7-4 Interfacial electronic structure at the C₆₀/LSMO interface

Haipeng Xie¹, Dongmei Niu¹, Lu Lyu¹, Peng Wang², Di Wu² and Yongli Gao^{1,3}

¹Central South University, ²Nanjing University, ³University of Rochester

M-7-5 Carrier dynamics along with interfacial electronic structure at C₆₀/GaAs(001) and CuPc/GaAs(001) hybrid heterojunction

Heeseon Lim^{1,2}, Hyuksang Kwon² and Jeong Won Kim²

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M-7-6 Self-Assembled Monolayers with Cycloalkyl Terminal Groups for Interface Engineering of Organic Thin Film Transistors

Bowen Shan, Danqing Liu and Qian Miao

The Chinese University of Hong Kong

M-7-7 Organic Hole Transport Layers for Colloidal Quantum Dot Solar Cells

Nina Klein, Yujiro Tazawa, Nanlin Zhang, Darren C. J. Neo, Hazel E. Assender and Andrew A. R. Watt
University of Oxford

M-7-8 Probing the Exciton Binding Energy in Organic Semiconductors

Ho-Wa Li and Sai-Wing Tsang
City University of Hong Kong

M-7-9 Low Threshold Amplified Spontaneous Emission and Lasing from Flexible All-Polymer Nanostructures

J. R. Castro Smirnov¹, Qi Zhang², Longfei Wu¹, Ruidong Xia², Isabel Rodríguez¹ and Juan Cabanillas González¹

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M-7-10 Air-Induced Charge Trapping on Semiconductor-Dielectric Interface and Electrical Instability in Organic Field-Effect Transistors

Hio-leng Un, Jie-Yu Wang and Jian Pei
Peking University

M-7-11 Role of energetic disorder and traps on exciton diffusion in organic semiconductors

Irina Rörich^{1,2}, Olexandr V. Mikhnenko³, N. Irina Crăciun¹ and Paul W. M. Blom¹

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M-7-12 A Clarification of the Energy-level Alignment at the Electrode Interfaces

Zhanhao Hu, Zhiming Zhong, Yawen Chen, Chen Sun, Fei Huang, Junbiao Peng, Jian Wang and Yong Cao
South China University of Technology

M-7-13 Conductive Self-doped Conjugated Polyelectrolyte with Modifiable Work Function for Effective Hole Transport in Polymer Solar Cells

Wanzhu Cai, Chiara Musumeci, Fatima N. Ajjan, Zheng Tang, Qingye Bao, Zaifei Ma and Olle Inganäs
Linköping University

M-7-14 Slower carriers limit charge generation in organic semiconductor light harvesting systems

Safa Shoaee, Martin Stolterfoht, Ardalan Armin, Ivan Kassal, Paul Burn and Paul Meredith
The University of Queensland

M-7-15 Partially Encountered-limited Recombination in Bulk Heterojunctions

Ardalan Armin¹, Safa Shoaee¹, David Jones², Paul Burn¹ and Paul Meredith¹

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M-7-16 Formation of a highly ordered red phase in a MEH-PPV:polystyrene gel

Elham Rezasoltani¹, Jaime Martin², Claudia M. Bazán¹, Natalie Stingelin² and Carlos Silva¹

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- M-7-17 Electrical conditioning of conjugated polyelectrolytes for cathode interfacial layer engineering of solution-processable optoelectronic devices
Francesco Carulli¹, Mariacecilia Pasini¹, Francesco Galeotti¹, Guido Scavia¹, Sergio Brovelli², Umberto Giovanella¹ and Silvia Luzzati¹
¹Istituto per lo Studio delle Macromolecole, Consiglio Nazionale delle Ricerche, ²Università degli Studi di Milano-Bicocca
- M-7-18 Simple, Rapid and Checkable Electrical Post-Treatment Method for Organic Photovoltaic Devices
Sangheon Park¹, Yu-Seong Seo¹, Won Suk Shin², Sang-Jin Moon² and Jungseek Hwang¹
¹Sungkyunkwan University, ²Institute of Chemical Technology
- M-7-19 Electron-Induced Instability of p-type Polymer Field-Effect Transistors: Mechanistic understanding and mitigating by fullerenes
Hung Phan^{1,2}, Michael Ford^{1,2}, Ming Wang^{1,2}, Tyler Postle^{1,2}, Alexander Lill^{1,2}, Guillermo C. Bazan^{1,2} and Thuc-Quyen Nguyen^{1,2}
¹Mitsubishi Chemical, ²University of California, Santa Barbara
- M-7-20 Regular Electronic Structures at Conjugated Electrolyte/Electrode Interface for Organic Electronics
Qinye Bao¹, Xianjie Liu¹, Ergang Wang², Junfeng Fang², Feng Gao¹, Slawomir Braun¹ and Mats Fahlman¹
¹Linköping University, ²Chalmers University of Technology, ³Ningbo Institute of Material Technology and Engineering, Chinese Academy of Sciences
- M-7-21 The adsorption and electronic structure of 2,7-dioctyl[1]benzothieno[3,2-b]benzothiophene (C8-BTBT) on Ni(100)
Shitan Wang, Dongmei Niu, Hong Zhang and Yongli Gao
Central South University
- M-7-22 Energy level alignment, film growth, and adsorption of 2,7-dioctyl[1]benzoththieno[3,2-b]benzothiophene (C8-BTBT) on MoS₂, HOPG and Ni(001)
Can Wang¹, Dongmei Niu¹, Lu Lyu¹, Hong Zhang¹ and Yongli Gao^{1,2}
¹Central South University, ²University of Rochester
- M-7-23 Dipole Orientation of PFN interlayer in insulation surface of organic field-effect transistors
Cong Wang, Linlin Liu and Yuguang Ma
South China University of Technology
- M-7-24 Self-assembly of DBBA on Coinage Substrates
Guo Tian¹, Yanwei He¹, Yixian Shen¹, Yuhao Lu², Yongli Gao¹ and Han Huang¹
¹Central South University, ²Zhejiang University
- M-7-25 Thickness-dependent phase transition of CuPc on layered substrates
Han Huang¹, Lei Zhang¹, Lu Lyu¹, Xinyu Gao² and Yongli Gao¹

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M-7-26 Effect of flexible ITO based electrode modification on the performance of organic solar cells
Danbei Wang, Shuang Zheng and Hongmei Zhang
Nanjing University of Posts and Telecommunications

M-7-27 Band Bending and Molecular Packing Mode of
2,7-dioctyl[1]benzothieno[3,2-b]benzothiophene(C8-BTBT) on MoS₂
Liu Baoxing, Niu Dongmei and Gao Yongli
Central South University

TOPIC 9

M-9-1 Electronic Excited States in Organic Photovoltaics
Haibo Ma
Nanjing University

M-9-2 Electronic structures and carrier mobilities of blue phosphorus nanoribbons and nanotubes: a first principles study
Jin Xiao and Mengqiu Long
Central South University

M-9-3 Intramolecular Rotations versus Intermolecular Interactions: Aggregation-induced Emission or Aggregation-caused Quenching?
Han Nie¹, Zujin Zhao¹, Anjun Qin¹ and Ben Zhong Tang^{1,2}
¹South China University of Technology, ²The Hong Kong University of Science and Technology

M-9-4 Impact of Conjugated Polymer Chain Conformation on Density of States and Charge Transport – Case Studies Combining Transient and Frequency-Resolved Probes and Drift-Diffusion Device Modelling
Xingyuan Shi¹, Aleksandr Perevedentsev², Vojtech Nádaždy³, Xuhua Wang¹, Elizabeth von Hauf⁴, Donal D. C. Bradley⁵, Roderick C. I. MacKenzie⁶ and Jenny Nelson¹
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M-9-5 Theoretical investigation on optical spectra of Sexithiophene and its alkyl - group substituted derivatives in different Nano-aggregation states
Wenqiang Li¹, Qian Peng², Lili Zhu¹, Huili Ma¹, Jing Ma³ and Zhigang Shuai¹
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M-9-6 Understanding the charge transport in D-A co-crystal and copolymer from super-exchange perspective
Hua Geng¹, Changli Chen², Zhigang Shuai² and Yuanping Yi¹
¹Institute of chemistry, Chinese Academy of sciences, ²Tsinghua University

- M-9-7 Simulation of the singlet fission in organic crystalline materials
Yao Yao
Fudan University
- M-9-8 A comparative study of DTDCB and DTDCPB in charge transport, exciton dissociation and charge recombination: A theoretical sight
Xingxing Shen and Yuanping Yi
Institute of Chemistry, Chinese Academy of Sciences
- M-9-9 Theoretical Description of Molecular Packing and Electronic Process at the Donor/Acceptor Interface for Small-Molecule Organic Solar Cells
Guangchao Han and Yuanping Yi
Institute of Chemistry, Chinese Academy of Sciences
- M-9-10 Exciton intrachain transport induced by interchain packing configurations in conjugated polymers
Ruixuan Meng, Kun Gao and Shijie Xie
Shandong University
- M-9-11 Mesoscale Morphologies and Electronic Properties of Perylenediimide(PDI)-based acceptors for Organic Solar Cells
Yuan Guo, Guangchao Han and Yuanping Yi
Institute of Chemistry, Chinese Academy of Sciences
- M-9-12 Direct Determination of Effective Electronic Coupling Based on Diabatic States Calculated by mom-SCF
Junzi Liu¹, Yuanping Yi¹ and Zhigang Shuai²
¹Institute of Chemistry, Chinese Academy of Sciences, ²Tsinghua University
- M-9-13 Development of pure organic materials with long-lived and efficient room temperature phosphorescence
Weijun Zhao, Jacky W. Y. Lam and Ben Zhong Tang
The Hong Kong University of Science and Technology
- M-9-14 Ab initio impedance spectroscopy modeling of unipolar organic devices
Feilong Liu¹, Andrea Massé¹, Pascal Friederich², Franz Symalla², Robert Nitsche³, Wolfgang Wenzel², Reinder Coehoorn¹ and Peter A. Bobbert¹
¹Eindhoven University of Technology, ²Karlsruhe Institute of Technology, ³sim4tec GmbH
- M-9-15 Charge Transport Properties in Unipolar Transport C₈BTBT-F_nTCNQ and Ambipolar Transport DMQ_tT-F₄TCNQ Mixed-Stack Crystals: Super-exchange Properties and Non-local Electron-Phonon Couplings Beyond Γ -point
Lingyun Zhu¹, Hua Geng², Yuanping Yi² and Zhixiang Wei¹
¹National Center for Nanoscience and Technology, Chinese Academy of Sciences, ²Institute of Chemistry, Chinese Academy of Sciences

- M-9-16 Migration of an exciton in organic polymers driven by a nonuniform internal electric field
Kun Gao, Fujiang Yang and Shijie Xie
Shandong University
- M-9-17 Theoretical Studies on the Luminescent Mechanism of TPA-NZP
Ruihong Duan, Guangchao Han, Qian Peng and Yuanping Yi
Institute of Chemistry, Chinese Academy of Science
- M-9-18 Novel Through-Space Conjugated Materials: High Fluorescence Efficiency and Large Stokes Shifts, Multichannel Conductance
Bairong He¹, Long Chen¹, Han Nie¹, Rongrong Hu¹, Anjun Qin¹, Zujin Zhao¹ and Ben Zhong Tang^{1,2}
¹South China University of Technology, ²The Hong Kong University of Science and Technology
- M-9-19 First-Principles Study of Carrier Mobility in Disordered Poly(3-hexylthiophene) and Conjugated Polyelectrolytes
Zi Li¹, Xu Zhang², Gang Lu², Thuc-Quyen Nguyen³ and Ping Zhang¹
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- M-9-20 Electronic Polarization at Model Organic Electronic Interfaces: Organic–Vacuum and Organic–Organic Interfaces
Sean M. Ryno¹, Chad Risko² and Jean-Luc Brédas¹
¹King Abdullah University of Science and Technology, ²University of Kentucky
- M-9-21 Droplets impinging Model for the Limited Channel Length of Inkjet Printed Thin Film Transistors
Honglong Ning, Ruiqiang Tao, Jianqiu Chen, Wei Cai, Zhennan Zhu, Yicong Zhou, Rihui Yao, Shibei Hu, Miao Xu, Lei Wang, Linfeng Lan and Junbiao Peng
South China University of Technology
- M-9-22 Quantum Chemical Calculations of the Cluster Model of SnO₂ (110) Surface Modified by Benzoic Acids
Enkhbaatar Ankhbayar², Tegshjargal Khishigjargal¹, Namsrai Javkhlantugs¹, Gansukh Mungunshagai², Kazuyoshi Ueda³ and Chimed Ganzoriga²
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- M-9-23 Structural-Property Relationship of Salicylaldehyde Imine and Boranil Derivatives
Tingzhong Li¹, Han Nie¹, Rongrong Hu¹ and Ben Zhong Tang^{1,2}
¹South China University of Technology, ²The Hong Kong University of Science and Technology
- M-9-24 Spin polarization in organic multiferroic composites
Shixuan Han, Liu Yang, Kun Gao and Shijie Xie
Shandong University
- M-9-25 Origin of Crystallization-Induced Room Temperature Phosphorescence for Pure Organic Molecules

Huili Ma¹, Wen Shi¹, Jiajun Ren², Wenqiang Li², Qian Peng² and Zhigang Shuai¹

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M-9-26 The exciton diffusion in organic crystals

Yuqian Jiang¹, Zhigang Shuai² and Qian Peng³

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M-9-27 The effect of long-range electronic correlation on bi-exciton state in conjugated polymers

Shao Bo Chen¹ and Hua Zhao²

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M-9-28 A comprehensive Study of the Effects of Chain Morphology on the Transport Properties of Amorphous Polymer Films

Dan Mendels and Nir Tessler

Technion Israel institute of technology

M-9-29 Electronic states in fullerene aggregates and at the interface to polymers: charge delocalization and exciton hybridization effects

Gabriele D'Avino¹, Luca Muccioli², Yoann Olivier¹ and David Beljonne¹

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TOPIC 10

M-10-1 Supramolecular Antibiotic Switch for Antibacterial Regulation

Haotian Bai, Huanxiang Yuan, Chenyao Nie, Bing Wang, Fengting Lv, Libing Liu and Shu Wang

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M-10-2 Influence of graphene oxide on the production and properties of cellulose membranes

B. Fryczkowska, M. Sieradzka, T.Kukulski and R. Fryczkowski

University of Bielsko-Biala

M-10-3 Design and Synthesis of Pyrazine-Based Fluorophores With "AIE" and "ESIPT" Characteristic

Simon H. P. Sung, Jacky W.Y. Lam, Ryan T. K. Kwok and Ben Zhong Tang

The Hong Kong University of Science and Technology

M-10-4 A Fluorescence Ratiometric Assay Strategy for Chemical Transmitter of Living Cells Using H₂O₂-Sensitive Conjugated Polymers

Yunxia Wang, Libing Liu, Fengting Lv and Shu Wang

Institute of Chemistry, Chinese Academy of Sciences

M-10-5 Fluorescence Photoswitchable Polymers Based on Perylenemonoimide-Dithienylethene Dyads as Super-Resolution Imaging Targeting Mitochondria

Jun-Xia Liu, Chong Li, Nuo-Hua Xie, Tao Chen, Wen-Liang Gong and Ming-Qing Zhu

Huazhong University of Science and Technology

- M-10-6 A new highly selective and sensitive fluorescent chemosensor for Cu²⁺ base on rhodamine with photochromic azo dyads and for live cells imaging
Sheng Wang¹, Chengpeng Li¹, Xue Li¹, Hyung-Wook Yu² and Yong-A Son²
¹Lingnan Normal University, ²Chungnam National University
- M-10-7 Preparation and Biological Application of pH-responsive Conjugated Polymer Nanoparticles for Cell Imaging
Jianwu Wang
Institute of Chemistry, Chinese Academy of Sciences
- M-10-8 Synthesis of Conjugated Polymers with amino Functionality and the Photophysical Study
Kesong Miao and Li-Juan Fan
Soochow University
- M-10-9 Highly Sensitive and Specific Multiplexed MicroRNA Quantification Using Size-Coded Ligation Chain Reaction
Pengbo Zhang, Huan Lu, Jianwu Wang, Fengting Lv, Libing Liu and Shu Wang
Institute of Chemistry, Chinese Academy of Sciences
- M-10-10 Aggregation-induced emission: the origin of lignin fluorescence
Yuyuan Xue, Xueqing Qiu and Yuan Li
South China University of Technology
- M-10-11 Synthesis of a Novel Quinoline Skeleton Introduced Cationic Polyfluorene Derivative for Multimodal Antimicrobial Application
Han Sun¹, Bohan Yin¹, Hongli Ma¹, Huanxiang Yuan², Bin Fu¹ and Libing Liu²
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- M-10-12 Release and injection of neurotransmitter using conducting polymer by cross-potential method
Masaharu Fujii, Haruo Ihori and Hyeon-Gu Jeon
Ehime University
- M-10-13 Water-Soluble Conjugated Polymers f Employed for Highly Efficient Gene Delivery and Imaging
Shengliang Li, Fengting Lv, Libing Liu and Shu Wang
Institute of Chemistry, Chinese Academy of Sciences
- M-10-14 Triphenylamine-Substituted Green Fluorescent Protein Chromophore: A Fluorescent Probe with Large Two Photon Absorption Cross Section for Lipid Droplet Imaging
Meijuan Jiang and Ben Zhong Tang
The Hong Kong University of Science and Technology
- M-10-15 Fine-Tuning of Detection Range in ATP assay based on the Molecular Beacon Aptamer/Conjugated Polyelectrolyte complex
Ji-Eun Jeong¹, In Hwan Jung³, Mijeong Kang², Boram Kim² and Han Young Woo¹

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- M-10-16 DNA Hydrogel by Multicomponent Assembly for Encapsulation and Killing of Cells
Huan Lu, Fengting Lv, Libing Liu and Shu Wang
Institute of Chemistry Chinese Academy of Sciences
- M-10-17 A new polymer based on dipyrrophenazine (dppz) moiety synthesis and sensitive chemosensor toward Cu²⁺ ion with high selectivity
Hui Li^{1,2}, Shujiang Zhang², Chenliang Gong², Jianzhi Wang¹ and Feng Wang¹
¹Wuhan Institute of Technology, ²Lanzhou University
- M-10-18 A strategy for cellular therapies: development of “Magnetic UberBeads” cell-surface sensing platform to probe cytokine expression with live cells
Guozhen Liu^{1,2}, Kaixin Zhang¹, Aya G. Anwer¹ and Ewa M. Goldys¹
¹Macquarie University, ²Central China Normal University
- M-10-19 Application of Bioluminescence Resonance Energy Transfer (BRET) in Anticancer and Antifungal Research
Huanxiang Yuan
Beijing Technology and Business University
- M-10-20 Silole-Based Red Fluorescent Organic Dots for Two-Photon Fluorescence in vitro Cell and in vivo Blood Vessel Imaging
Bin Chen¹, Zujin Zhao¹, Bin Liu² and Ben Zhong Tang^{1,3}
¹South China University of Technology, ²National University of Singapore, ³The Hong Kong University of Science and Technology
- M-10-21 Graphene oxide-Conjugated Polymer Hybrid Materials for Detection and Function Regulation of Calmodulin
Chengfen Xing, Hongbo Yuan and Ran Chai
Hebei University of Technology
- M-10-22 Synthesis of Poly(aryleneethynylene)s Containing Perylene Groups and Application for the Detection of the Nitro Aromatic Molecules
Heng Zhang and Li-Juan Fan
Soochow University
- M-10-23 Development of Multifunctional Emissive Nanogel Based on BODIPY Derivatives for Bio-imaging Applications
Bo Ram Kim, Kyung Kuk Koh and Ho-Joong Kim
Chosun University
- M-10-24 A Highly Fluorescent AIE-active Thernostic Agent with Anti-tumor Activity to Specific Cancer Cells
Yueyue Zhao, Ryan T. K. Kowk, Jacky w. Y. Lam and Ben Zhong Tang

The Hong Kong University of Science and Technology

- M-10-25 A Near-Infrared AIEgen for Specific Imaging of Lipid Droplets
Miaomiao Kang^{1,2}, Xinggui Gu¹, Ryan T. K. Kwok¹, Chris W. T. Leung¹, Jacky W. Y. Lam¹, Feng Li² and Ben Zhong Tang¹
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- M-10-26 An AIE-active theranostic probe for cancer cell imaging and therapy
Meng Gao¹, Miaomiao Kang², Yuhan Lin¹, Shiwu Li¹, Zujin Zhao¹, Anjun Qin¹ and Ben Zhong Tang^{1,2}
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- M-10-27 A Ratiometric Probe for Hg²⁺ Detection Based on an AIE Luminogen
Yuncong Chen, Weijie Zhang, Jacky W. Y. Lam and Ben Zhong Tang
The Hong Kong University of Science and Technology
- M-10-28 Fluorescence visualization of crystal formation and Single-Crystal-to-Single-Crystal transformations of organic luminogens
Chao Zheng¹, Han Nie¹, Weitao Huang¹, Rongrong Hu¹ and Ben Zhong Tang^{1,2}
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- M-10-29 A mitochondrion-specific photoactivatable fluorescent turn-on bioprobe for localization super-resolution microscope under physiological conditions without additives
Xinggui Gu and Ben Zhong Tang
The Hong Kong University of Science and Technology
- M-10-30 A Photostable AIEgen for Nucleolus and Mitochondria Imaging with Organelle-Specific Emission
Chris Y. Y. Yu, Weijie Zhang, Ryan T. K. Kwok, Chris W. T. Leung, Jacky W. Y. Lam and Ben Zhong Tang
The Hong Kong University of Science and Technology
- M-10-31 A Bifunctional AIE Luminogen as Selective Mitochondrion-Targeting Probe for Cancer Cell and Photosensitizer for Photodynamic Therapy
Chen Gui, Engui Zhao, Meijuan Jiang, Haiqin Deng, Jacky.W.Y. Lam and BenZhong Tang
The Hong Kong University of Science and Technology
- M-10-32 Imidazole-Based AIEgens with Wide Color Tunability: Synthesis and Their Biological Applications
Zhegang Song, Weijie Zhang, Jacky W. Y. Lam and Ben Zhong Tang
The Hong Kong University of Science and Technology
- M-10-33 An Optical Nano-Ruler Based on Conjugated Polymer–Silver Nanoprism Pair for Label-Free Protein Detection
Xiaoyu Wang, Shengliang Li, Pengbo Zhang, Fengting Lv, Libing Liu and Shu Wang
Institute of Chemistry, Chinese Academy of Sciences
- M-10-34 Real-Time Monitoring the Mitophagy Process by a Photostable Fluorescent Mitochondrion-specific Bioprobe with AIE Characteristic

Weijie Zhang^{1,2}, Ryan T. K. Kwok², Yilong Chen², Sijie Chen², Jacky W. Y. Lam², Qichang Zheng¹ and Ben Zhong Tang

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TOPIC 12

M-12-1 Room-temperature air-stable spin transport in molecular-based multipurpose spin valves

X. Sun¹, M. Gobbi², A. Bedoya-Pinto², Z. Mao³, A. Atxabal², O. Txoperena², W. Yan², Y. Guo³, R. Llopis², G. Yu³, Y. Liu³, A. Chuvilin², F. Casanova² and L. E. Hueso²

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M-12-2 Self-Assembled Conjugated Polymer Spherical Microresonators

Yohei Yamamoto

University of Tsukuba

M-12-3 Ferroelastic Domain Switching in Boric Acid Single Crystal

Shota Uchikawa, Norihisa Hoshino, Takashi Takeda and Tomoyuki Akutagawa

Tohoku University

M-12-4 Synthesis and Photoelectric Properties of Novel Oligomer Containing Thiophene, Triphenylamine and Triazole

Jinming Zeng, Xiaoyuan Zhang, Yaqin Xia and Ping Liu

South China University of Technology

M-12-5 Charge and Energy Transfer Behaviors of Quantum Dot-Based Organic-Inorganic Hybrid Materials

Juhyoung Jung, Xue-Cheng Teng, Sumin Jeon, Eunbi Jeong, Prem Prabhakaran and Kwang-Sup Lee

Hannam University

M-12-6 Realizing low-threshold yellow-green polymer lasing in energy transfer blends: an ultrafast dynamics study of novel hosts for F8BT

Qi Zhang¹, Jingguan Liu¹, Xiangru Guo¹, Yan Qian¹, Ruidong Xia¹, Santiago Casado², Larry Lüer² and Juan Cabanillas-Gonzalez²

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M-12-7 Analyses of Crystal Structure and Carrier Mobility in Single Crystalline Thin Film of Mesogenic Phthalocyanine by X-ray Diffraction and Density Functional Theory

Masashi Ohmori, Takashi Uno, Chika Nakano, Akihiko Fujii and Masanori Ozaki

Osaka university

M-12-8 Non-Conventional Luminogen with Aggregation-Induced Emission Characteristic

Haoke Zhang, Jacky W. Y. Lam and Ben Zhong Tang

The Hong Kong University of Science and Technology

M-12-9 Electronic Structure of Oligoacene Radical Cations

Masashi Uebe, Kazuki Takahashi, Kenji Kawashima and Akihiro Ito

Kyoto University

M-12-10 A Small Conformation Change Induced Photoluminance Enhancement in Crystal Phase: A Theoretical Calculation Combined Piezochromic Research

Shitong Zhang, Yuxiang Dai, Bo Zou and Bing Yang

Jilin University

M-12-11 Vertical Organic Field Effect transistors Based Patterned Source Electrode

Michael Greenman, Svetlana Yofis and Nir Tessler

Technion - Israel Institute of Technology

M-12-12 High-contrast Mechanochromic Fluorescence Fluorophores: Mechanically Controlled Excited State

Yujian Zhang¹, Feng Cao¹, Guoxiang Pan¹, Weijun Li², Hua Huang¹ and Cheng zhang²

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M-12-13 Chromism of Ellagic Acid Solution by Photo Irradiation

Hisashi Tokutomi, Takashi Takeda, Norihisa Hoshino and Tomoyuki Akutagawa

Tohoku University

M-12-14 New D1-A-D2-A Type Polymer Semiconductor: Structure, Synthesis, Property, Processing and Application

Jianyu Yuan^{1,2}, Wanli Ma¹ and Guillermo C. Bazan²

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M-12-15 Crystal Structures and Physical Properties of Fused Materials of Coordination Polymers and Ionic Liquids

Xin Zheng, Shin-ichiro Noro, Kazuya Kubo and Takayoshi Nakamura

Hokkaido University

M-12-16 Understanding The Hybridization Between Localized Emission And Charge-Transfer States: Changing Different Donors

Changjiang Zhou and Bing Yang

Jilin University

M-12-17 Multi-Recognition Nano Barcode Based on Functional Organic Materials

Seokho Kim, Jinho Choi, Hyeong Tae Kim, and Dong Hyuk Park

Inha University

M-12-18 Preparation and Characterization of Pyrene Derivatives with Push-Pull Substituents

Ryohei Kurata, Akihiro Ito
Kyoto University

- M-12-19 Thin Film Thermistor with Positive Temperature Coefficient based on Phase Separated Blends of Ferroelectric and Semiconducting Polymers
Thomas Lenz^{1,2}, Hamed Sharifia, Kamal Asadi¹, Paul W. M. Blom^{1,2}, Wilhelm A. Groenc³, Dago M. De Leeuw¹
¹Max Planck Institute for Polymer Research, ²Graduate School Materials Science in Mainz, ³Delft University of Technology
- M-12-20 Highly Conductive Organic Electrode with Light-driven Conductivity Modulation
Seung-Chul Lee, Jong-Wan Ryu, Suck-Hyun Lee and O-Pil Kwon
Ajou University
- M-12-21 Air-stable Multi-cyanated Acenes - A Novel Synthesis Paving the Way for Cyanated Functional Materials
Florian Glöcklhofer, Markus Lunzer, Berthold Stöger and Johannes Fröhlich
Technische Universität Wien
- M-12-22 Functional Poly(tetraarylethene)s Constructed by Multicomponent Polycoupling of Internal Diynes, Aryl Diiodides and Boronic Acids
Yajing Liu, Jesse Roose, Jacky W. Y. Lam and Ben Zhong Tang
The Hong Kong University of Science and Technology
- M-12-23 Aggregation-Induced Emission of Triphenylethene-Functionalized Tetraphenylpyrazine
Ming Chen¹, Anjun Qin², Jacky W. Y. Lam¹ and Ben Zhong Tang^{1,2}
¹The Hong Kong University of Science & Technology, ²South China University of Technology
- M-12-24 Wafer-Scale Precise Patterning of Organic Single-Crystal Nanowire Arrays via a Photolithography-Assisted Method
Xiujuan Zhang, Wei Deng and Xiaohong Zhang
Soochow University
- M-12-25 Multichannel Conductance of Folded Single-Molecule Wires Aided by Through-Space Conjugation
Zujin Zhao¹, Long Chen¹, Ya-Hao Wang², Xiao-Shun Zhou² and Ben Zhong Tang¹
¹South China University of Technology, ²Zhejiang Normal University
- M-12-26 Stability enhancement of PbSe quantum dots via post-synthetic ammonium chloride treatment for a high-performance infrared photodetector
Chunjie Fu, Shengyi Yang, Haowei Wang, Taojian Song, Bo He, Weile Li, Li Zhang, Muhammad Sulaman, Ruibin Liu and Bingsuo Zou
Beijing Institute of Technology
- M-12-27 New Polymers for Photovoltaics and NIR-II Imaging

Yingping Zou

Central South University

M-12-28 Helical Aromatic Imides: Synthesis, Properties, and Applications

Meng Li and Chuan-Feng Chen

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M-12-29 New Viologen-based Composite Materials for Electronic Application

Nianxing Wang^{1, 2}, Pia Damlin¹ and Carita Kvarnström¹

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M-12-30 Functional architecture based on oligo(aniline)s

Yaoyang Hu¹, Daniel Ho², Ben Miles³, Henkjen Gersen³, John Rarity² and Charl Faul¹

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M-12-31 Plasmonics for Toward High Efficient Optical Waveguide Performance Based on Functional Organic Crystals

Seokho Kim, Jinho Choi, Hyeong Tae Kim and Dong Hyuk Park

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