

1. Chuancheng Jia, Agostino Migliore, Na Xin, Shaoyun Huang, Jinying Wang, Qi Yang, Shuopei Wang, Hongliang Chen, Duoming Wang, Boyong Feng, Zhirong Liu, Guangyu Zhang, Da-Hui Qu, He Tian, Mark A. Ratner, H. Q. Xu*, Abraham Nitzan*, and Xuefeng Guo*, Covalently-bonded Single Molecule Junctions with Stable and Reversible Photoswitched Conductivity, *Science* **2016**, *352*, 1443. Highlighted by *Science* (a perspective article; *Science* **2016**, *352*, 1394) in the same issue, *Chemical & Engineering News*, and *Chemistry World*.
2. Dong Xiang, Xiaolong Wang, Chuancheng Jia, Takhee Lee*, and Xuefeng Guo*, Molecular-Scale Electronics: From Concept to Function, *Chem. Rev.* **2016**, *116*, 4318. (Cover of this issue)
3. Huimin Wen, Wengang Li, Jiewei Chen, Xiaolong Wang, Gen He, Longhua Li, Mark A. Olson, Andrew C.-H. Sue, J. Fraser Stoddart*, and Xuefeng Guo*, Complex Formation Dynamics in a Single-Molecule Electronic Device, *Science Advances* **2016**, *2*, e1601113.
4. Gen He, Jie Li, Haina Ci, Chuanmin Qi*, and Xuefeng Guo*, Direct measurement of single-molecule DNA hybridization dynamics with single-base resolution, *Angew. Chem. Int. Ed.* **2016**, *55*, 9036. (This paper has been highly evaluated by one of the reviewers as very important (top 5%))
5. Chuancheng Jia, Wei Ma, Chunhui Gu, Hongliang Chen, Haomiao Yu, Xixi Li, Fan Zhang, Lin Gu, Andong Xia, Xiaoyuan Hou, Sheng Meng*, and Xuefeng Guo*, High-Efficiency Selective Electron Tunnelling in a Heterostructure Photovoltaic Diode, *Nano Lett.* **2016**, *16*, 3600.
6. Chuancheng Jia, Xixi Li, Na Xin, Yao Gong, and Xuefeng Guo*, Interface-Engineered Plasmonics at Metal/Semiconductor Heterostructures for Photovoltaic Applications, *Adv. Energy Mater.* **2016**, 1600431.
7. Guoming Lin‡, Yuanwei Lin‡, Huan Huang, Rongli Cui, Xihong Guo, Jinqian Dong, Xuefeng Guo*, and Baoyun Sun*, Novel Exciton Dissociation Behavior in Tin-Lead Organohalide Perovskites, *Nano Energy* **2016**, *27*, 638.
8. Hongliang Chen, Nongyi Cheng, Wei Ma, Mingliang Li, Shuxin Hu, Lin Gu, Sheng Meng, and Xuefeng Guo*, Design of a Photoactive Hybrid Bilayer Dielectric for Flexible Nonvolatile Organic Memory Transistors, *ACS Nano* **2016**, *10*, 436.
9. Lin Zhou, Lei Liao, Jinying Wang, Jingwen Yu, Denghua Li, Qin Xie, Zhirong Liu, Yanlian Yang, Xuefeng Guo, and Zhongfan Liu*, Substrate-Induced Graphene Chemistry for 2D Superlattices with Tunable Periodicities, *Adv. Mater.* **2016**, *28*, 2148.
10. Hongtao Zhang,‡ Hongliang Chen,‡ Wei Ma, Jingshu Hui, Sheng Meng, Wei Xu, Daoben Zhu, and Xuefeng Guo*, Photocontrol of Charge Injection/Extraction at Electrode/Semiconductor Interfaces for High-Photoresponsivity Organic Transistors, *J. Mater. Chem. C* **2016**, *4*, 5289.
11. Chuancheng Jia,‡ Qing Wang,‡ Na Xin, Jian Zhou, Yao Gong, Lidong Li, Qiang Sun, and Xuefeng Guo*, Logic Control of Interface-Induced Charge-Trapping Effect for Ultrasensitive Gas Detection with All-Mirror-Image Symmetry, *Adv. Mater. Technol.* **2016**, 1600067.
12. Bangjun Ma, Peiqi Wang, Shizhao Ren, Chuancheng Jia, and Xuefeng Guo*, Versatile Optical Determination of Two-Dimensional Atomic Crystal Layers, *Carbon* **2016**, *109*, 384.
13. Jiashen Meng, Chaojiang Niu, Xiong Liu, Ziang Liu, Hongliang Chen, Xuanpeng Wang, Jiantao Li, Wei Chen, Xuefeng Guo*, and Liqiang Mai*, Interface-Modulated Approach toward Multilevel Metal Oxide Nanotubes for Lithium-Ion Batteries and Oxygen Reduction Reaction, *Nano Res.* **2016**, *9*, 2445.
14. Jie Li, Gen He, Hiroshi Ueno, Chuancheng Jia, Hiroyuki Noji, Chuanmin Qi*, and Xuefeng Guo*, Direct Real-Time Detection of Single Proteins Using Silicon Nanowire-based Electrical Circuits, *Nanoscale* **2016**, *8*, 16172.
15. Chuancheng Jia, Bangjun Ma, Na Xin, and Xuefeng Guo*, Carbon Electrode-Molecule Junctions: A Reliable Platform for Molecular Electronics, *Acc. Chem. Res.* **2015**, *48*, 2565. (Cover of this issue)
16. Hongliang Chen, Shaohua Dong, Meilin Bai, Nongyi Cheng, Hao Wang, Mingliang Li, Huiwen Du, Shuxin Hu, Yanlian Yang, Tieying Yang, Fan Zhang, Lin Gu, Sheng Meng, Shimin Hou, and Xuefeng Guo*, Solution-Processable, Low-Voltage and High-Performance Monolayer Field-Effect Transistors with Aqueous Stability and High Sensitivity, *Adv. Mater.* **2015**, *27*, 2113. (Cover of this issue)
17. Li Gao, Le-Le Li, Xiaolong Wang, Peiwen Wu, Yang Cao, Bo Liang, Xin Li, Yuanwei Lin, Yi Lu*, and Xuefeng Guo*, Graphene-DNAzyme Junctions: A Platform for Direct Metal Ion Detection with Ultrahigh Sensitivity, *Chem. Sci.* **2015**, *6*, 2469.
18. Yuanwei Lin and Xuefeng Guo*, Ultrahigh Photogain Nanoscale Hybrid Photodetectors, *Small* **2015**, *11*, 2856.
19. Xiaolong Wang, Li Gao, Bo Liang, Xin Li, and Xuefeng Guo*, Revealing the Direct Effect of Individual Intercalations on DNA Conductance toward Single-Molecule Electrical Biodetection, *J. Mater. Chem. B* **2015**, *3*, 5150.
20. Lei Liao, Qin Xie, Xuefeng Guo, and Zhongfan Liu*, Fabrication of Chemical Graphene Nanoribbons via Edge-selective Covalent Modification, *Adv. Mater.* **2015**, *27*, 4093.
21. Hongtao Zhang, Jingshu Hui, Hongliang Chen, Jianming Chen, Wei Xu, Zhigang Shuai, Daoben Zhu, and Xuefeng Guo*, Synergistic Photomodulation of Capacitive Coupling and Charge Separation toward Functional Organic Field-Effect Transistors with High Responsivity, *Adv. Electron. Mater.* **2015**, *1*, 1500159. (Cover of this issue)
22. Xixi Li, Chuancheng Jia, Bangjun Ma, Wei Wang, Zheyu Fang, Guoqing Zhang*, and Xuefeng Guo*, Substrate-induced interfacial plasmonics for photovoltaic conversion, *Sci. Rep.* **2015**, *5*, 14497.
23. Donglin Ma, Jianping Shi, Qingqing Ji, Ke Chen, Jianbo Yin, Yuanwei Lin, Yu Zhang, Mengxi Liu, Qiangliang Feng, Xiujun Song, Xuefeng Guo, Jin Zhang, Yanfeng Zhang*, and Zhongfan Liu*, A Universal Etching-free Transfer of MoS₂ Films for Applications in Photodetectors, *Nano Res.* **2015**, *8*, 3662.

24. Jingyu Sun, Yubin Chen, Xin Cai, Bangjun Ma, Zhaolong Chen, Manish Kr. Priyadarshi, Ke Chen, Teng Gao, Xiuju Song, Qingqing Ji, Xuefeng Guo, Dechun Zou, Yanfeng Zhang*, and Zhongfan Liu*, Direct Low Temperature Synthesis of Graphene on Arbitrary Glasses by Plasma-enhanced CVD for Versatile, Cost-effective Electrodes, *Nano Res.* **2015**, *8*, 3496.
25. Guoming Lin, Yuanwei Lin, Rongli Cui, Huan Huang, Xihong Guo, Cheng Li, Jinqun Dong, Xuefeng Guo, and Baoyun Sun* An organic–inorganic hybrid perovskite logic gate for better computing, *J. Mater. Chem. C*, **2015**, *3*, 10793.
26. Yitan Li, Xiao Wang, Shiting Wu, Haina Ci, Henglu Xu, Xuemei Li, Hao Sun, Zeyao Zhang, Anyuan Cao, Xuefeng Guo and Yan Li*, Large-scale aligned crystalline CH₃NH₃PbI₃ Perovskite array films, *J. Mater. Chem. A* **2015**, *3*, 18847.
27. Qiang Zhao, Yao Wang, Yan Qiao, Xiaolong Wang, Xuefeng Guo, Yun Yan and Jianbin Huang, Conductive Porphyrin Helix from Ternary Self-assembly Systems, *Chem. Commun.* **2014**, *50*, 13537.
28. Jindong Wang, Fangxia Shen, Zhenxing Wang, Gen He, Jinwen Qin, Nongyi Cheng, Maosheng Yao*, Lidong Li* and Xuefeng Guo*, Point decoration of silicon nanowires: An approach toward single-molecule electrical detection, *Angew. Chem. Int. Ed.* **2014**, *53*, 5038.
29. Jindong Wang, Gen He, Jinwen Qin, Lidong Li* and Xuefeng Guo*, Preparation of silicon nanowires by in situ doping and their electrical properties, *Colloid Surf. A-Physicochem. Eng. Asp.* **2014**, *450*, 156.
30. Chenfang Lin, Xiangqian Huang, Fen Ke, Chenhao Jin, Nai Tong, Xiuli Yin, Lin Gan, Xuefeng Guo, Ruguang Zhao, Weisheng Yang, Enge Wang, and Zonghai Hu*, Quasi-one-dimensional graphene superlattices formed on high-index surfaces, *Phys. Rev. B* **2014**, *89*, 085416.
31. Xuefeng Guo*, Molecular Electronics: Challenges and Opportunities, *AIMS Mater. Sci.* **2014**, *1*, 11.
32. Yuanwei Lin and Xuefeng Guo*, Chemical Modification of Graphene and Its Applications. *Acta Chim. Sinica* **2014**, *72*, 277.
33. Chuancheng Jia, Hao Li, Jiaolong Jiang, Jindong Wang, Hongliang Chen, Dennis Cao, J. Fraser Stoddart* and Xuefeng Guo*, Interface-engineered bistable [2]rotaxane- graphene hybrids with logic capabilities, *Adv. Mater.* **2013**, *25*, 6752.
34. Xiao-Qing Liu, Yi-Lun Li, Yuan-Wei Lin, Shuang Yang, Xue-Feng Guo, Yan Li, Juan Yang* and Er-Qiang Chen*, Composites of Functional Poly(phenylacetylene)s and Single-Walled Carbon Nanotubes: Preparation, Dispersion, and Near Infrared Photoresponsive Properties. *Macromolecules* **2013**, *46*, 8479.
35. Chuancheng Jia, Jinying Wang, Chang-Jiang Yao, Yang Cao, Yu-Wu Zhong, Zhirong Liu, Zhongfan Liu* and Xuefeng Guo*, Conductance Switching and Mechanisms in Single-Molecule Junctions, *Angew. Chem. Int. Ed.* **2013**, *52*, 8666. Selected as a “hot paper”; Highlighted by *Nature* (<http://www.nature.com/nature/journal/v499/n7457/full/499129c.html>).
36. Xuefeng Guo*, Single-Molecule Electrical Biosensors Based on Single-Walled Carbon Nanotubes, *Adv. Mater.* **2013**, *25*, 3397. (Cover of this issue)
37. Chuancheng Jia and Xuefeng Guo*, Molecule-Electrode Interfaces in Molecular Electronic Devices, *Chem. Soc. Rev.* **2013**, *42*, 5642. (Cover of this issue)
38. Song Liu and Xuefeng Guo*, Functional Single-Walled Carbon Nanotube-based Molecular Devices, *Acta Chim. Sinica* **2013**, *71*, 478.
39. Yan Qiao, Yiyang Lin, Song Liu, Shaofei Zhang, Huanfa Chen, Yijie Wang, Yun Yan, Xuefeng Guo, Jianbin Huang*, Metal-driven hierarchical self-assembled zigzag nanoarchitectures with electrical conductivity, *Chem. Commun.* **2013**, *49*, 704-706.
40. Hongliang Chen and Xuefeng Guo*, Unique Role of Self-Assembled Monolayers in Carbon Nanomaterials-Based Field-Effect Transistors, *Small* **2013**, *8*, 1144. (Invited Review) (Cover of this issue)
41. Jindong Wang, Zhenxing Wang, Qiaochu Li, Lin Gan, Xinjun Xu, Lidong Li* and Xuefeng Guo*, Revealing Interface-Assisted Charge Transfer Mechanisms Using Silicon Nanowires as Local Probes, *Angew. Chem. Int. Ed.* **2013**, *52*, 3369.
42. Yang Cao, Shaohua Dong, Song Liu, Zhongfan Liu and Xuefeng Guo*, Toward Functional Molecular Devices based on Graphene-Molecule Junctions, *Angew. Chem. Int. Ed.* **2013**, *52*, 3906.
43. Yang Cao, Shaohua Dong, Song Liu, Li He, Lin Gan, Xiaoming Yu, Michael L. Steigerwald, Xiaosong Wu, Zhongfan Liu and Xuefeng Guo*, Building High-Throughput Molecular Junctions Using Indented Graphene Point Contacts, *Angew. Chem. Int. Ed.* **2012**, *51*, 12228.
44. Chuancheng Jia, Jiaolong Jiang, Lin Gan and Xuefeng Guo*, Direct Optical Characterization of Graphene Growth and Domains on Growth Substrates, *Sci. Rep.* **2012**, *2*, 707.
45. Shaohua Dong, Hongtao Zhang, Liu Yang, Meilin Bai, Yuan Yao, Lin Gan, Tieying Yang, Hong Jiang, Shimi Hou, Lijun Wan and Xuefeng Guo*, Solution-Crystallized Organic Semiconductors with High Carrier Mobility and Air Stability, *Adv. Mater.* **2012**, *24*, 5576. (Cover of this issue)
46. Sondra L. Hellstrom, Michael Vosgueritchian, Randall M. Stoltenberg, Irfan Irfan, Mallory Hammock, Yinchao Brill Wang, Chuancheng Jia, Xuefeng Guo, Yongli Gao, and Zhenan Bao*, Strong and Stable Doping of Carbon Nanotubes and Graphene by MoO_x for Transparent Electrodes, *Nano Lett.* **2012**, *12*, 3574.

47. Fangxia Shen, Jindong Wang, Zhenqiang Xu, Yan Wu, Qi Chen, Xiaoguang Li, Xu Jie, Maosheng Yao*, Xuefeng Guo*, and Tong Zhu*, Rapid Flu Diagnosis Using Silicon Nanowire Sensor, *Nano Lett.* **2012**, *12*, 3722. Highlighted by *C&EN* and *Chemistry World*.
48. Song Liu and Xuefeng Guo*, Carbon nanomaterials field-effect-transistor-based biosensors, **2012**, *NPG Asia Mater.* **2012**, *4*, e23. (Invited review)
49. Lin Gan, Jian Zhou, Fen Ke, Hang Gu, Danna Li, Zonghai Hu, Qiang Sun, Xuefeng Guo*, Tuning the Properties of Graphene by a Reversible Gas-Phase Reaction, *NPG Asia Mater.* **2012**, *4*, e31.
50. Lin Gan, Dayong Zhang, and Xuefeng Guo*, Electrochemistry: an Efficient Way to Chemically Modify Individual Monolayer Graphenes, *Small* **2012**, *8*, 1326. Highlighted by *MaterialViews*.
51. Dayong Zhang, Lin Gan, Yang Cao, Qing Wang, Limin Qi*, Xuefeng Guo*, Understanding Charge Transfer at PbS-Decorated Graphene Surfaces toward a Tunable Photosensor, *Adv. Mater.* **2012**, *24*, 2715.
52. Yingruo Li, Hongtao Zhang, Chuanmin Qi*, and Xuefeng Guo*, Light-driven photochromism-induced reversible switching in P3HT-spiropyran hybrid transistors, *J. Mater. Chem.* **2012**, *22*, 4261.
53. Yingruo Li, Hongtao Zhang, Chuanmin Qi*, and Xuefeng Guo*, New spiropyran derivatives: ion sensing and information processing at the molecular level, *Acta Phys. -Chim. Sin.* **2012**, *28*, 2471.
54. Hongtao Zhang, Xuefeng Guo*, Jingshu Hui, Shuxin Hu, Wei Xu, and Daoben Zhu*, Interface Engineering of Semiconductor/Dielectric Heterojunctions toward Functional Organic Field-Effect Transistors, *Nano Lett.* **2011**, *11*, 4939.
55. Fangxia Shen, Miaomiao Tan, Zhenxing Wang, Maosheng Yao*, Zhenqiang Xu, Yan Wu, Jindong Wang, Xuefeng Guo*, and Tong Zhu*, Integrating Silicon Nanowire Field Effect Transistor, Microfluidics and Air Sampling Techniques for Real-time Monitoring Biological Aerosols, *Environ. Sci. Technol.* **2011**, *45*, 7472.
56. Song Liu, Guido H. Clever, Yusuke Takezawa, Motoo Kaneko, Kentaro Tanaka, Xuefeng Guo*, and Mitsuhiko Shionoya*, Direct Conductance Measurement of Individual Metallo-DNA Duplexes within Single-Molecule Break Junctions, *Angew. Chem. Int. Ed.* **2011**, *50*, 8886. Highlighted by *NPG Asia Materials* (Cover of this issue)
57. Qing Wang, Xuefeng Guo*, Lichao Cai, Yang Cao, Lin Gan, Song Liu, Zhenxing Wang, Hongtao Zhang, and Lidong Li*, TiO₂-Decorated Graphenes as Efficient Photoswitches with High Oxygen Sensitivity, *Chem. Sci.* **2011**, *2*, 1860.
58. Song Liu, Xinyue Zhang, Wangxi Luo, Zhenxing Wang, Xuefeng Guo*, Michael L. Steigerwald, and Xiaohong Fang*, Single-Molecule Detection of Proteins Using Aptamer-Functionalized Molecular Electronic Devices, *Angew. Chem. Int. Ed.* **2011**, *50*, 2496. (Frontispiece of this issue)
59. Song Liu, Zhongming Wei, Yang Cao, Lin Gan, Zhenxing Wang, Wei Xu, Xuefeng Guo*, and Daoben Zhu, Ultrasensitive Water-Processed Monolayer Photodetectors, *Chem. Sci.* **2011**, *2*, 796.
60. Yu Ye, Lin Gan, Lun Dai*, Yu Dai, Xuefeng Guo, Hu Meng, Bin Yu, Zujin Shi, Kuanping Shanga, Guogang Qin*, A simple and scalable graphene patterning method and its application in CdSe nanobelt/graphene Schottky junction solar cells, *Nanoscale* **2011**, *3*, 1477.
61. Yu Ye, Lin Gan, Lun Dai*, Hu Meng, Feng Wei, Yu Dai, Zujin Shi, Bin Yu, Xuefeng Guo, Guogang Qin*, Multicolor graphene nanoribbon/semiconductor nanowire heterojunction light-emitting diodes, *J. Mater. Chem.* **2011**, *21*, 11760.
62. Yang Cao, Zhongming Wei, Song Liu, Qian Shen, Lin Gan, Songjian Shi, Xuefeng Guo*, Wei Xu, Michael L. Steigerwald, Zhongfan Liu*, and Daoben Zhu*, High-Performance Langmuir-Blodgett Monolayer Transistors With High Responsivity, *Angew. Chem. Int. Ed.* **2010**, *49*, 6319.
63. Qian Shen, Linjun Wang, Song Liu, Yang Cao, Lin Gan, Xuefeng Guo*, Michael L. Steigerwald, Zhigang Shuai*, Zhongfan Liu*, Colin Nuckolls*, Photoactive Gate Dielectrics, *Adv. Mater.* **2010**, *22*, 3282.
64. Yang Cao, Michael L. Steigerwald, Colin Nuckolls, and Xuefeng Guo*, Current Trends in Shrinking the Channel Length of Organic Transistors Down to the Nanoscale, *Adv. Mater.* **2010**, *22*, 20. (Invited Review).
65. Song Liu, Qian Shen, Yang Cao, Lin Gan, Zhengxin Wang, Michael L. Steigerwald, Xuefeng Guo*, Chemical Functionalization of Single-Walled Carbon Nanotube Field-Effect Transistors as Switches and Sensors, *Coord. Chem. Rev.* **2010**, *254*, 1101. (Invited Review)
66. Shen Qian, Xuefeng Guo*, Michael L. Steigerwald, Colin Nuckolls*, Integrating Reaction Chemistry into Molecular Electronic Devices, *Chem. Asian J.* **2010**, *5*, 1040. (Cover of this issue)
67. Qian Shen, Yang Cao, Song Liu, Lin Gan, Jianming Li, Zhenxing Wang, Jingshu Hui, Xuefeng Guo*, Dongsheng Xu, and Zhongfan Liu*, Mirror-Image Photoswitching in a Single Organic Thin-Film Transistor, *J. Phys. Chem. Lett.* **2010**, *1*, 1269.
68. Lin Gan, Song Liu, Danna Li, Hang Gu, Yang Cao, Qian Shen, Zhenxing Wang, Xuefeng Guo*, Facile Fabrication of Crossed Nanotube-Graphene Junctions, *Acta Phys. -Chim. Sin.* **2010**, *26*, 1151.
69. Qian Shen, Lin Gan, Song Liu, Yang Cao, Zhenxing Wang, Jingshu Hui, Xuefeng Guo*, Reversible Photomodulation of Organic Transistor Performance by Conformation-Induced Capacitive Coupling, *Acta Phys. -Chim. Sin.* **2010**, *26*, 1941.
70. Song Liu, Jianming Li, Qian Shen, Yang Cao, Xuefeng Guo*, Guoming Zhang, Chaoqun Feng, Jin Zhang, Zhongfan Liu, Michael L. Steigerwald, Dongsheng Xu*, and Colin Nuckolls*, Mirror-image photoswitching of Individual Single-Walled Carbon Nanotube Transistors Coated with Titanium Dioxide, *Angew. Chem. Int. Ed.* **2009**, *48*, 4759. Highlighted by *Chemistry World*.

71. Xuefeng Guo*, Shengxiong Xiao, Matthew Myers, Qian Miao, Michael L. Steigerwald, and Colin Nuckolls*, Photoresponsive nanoscale columnar transistors, *Proc. Natl. Acad. Sci. U.S.A.* **2009**, *106*, 691. Highlighted by *Nature Chemistry*.
72. Song Liu, Jianfeng Ye, Yang Cao, Qian Shen, Zhongfan Liu*, Limin Qi*, and Xuefeng Guo*, Tunable Hybrid Photodetectors with Super-High Responsivity, *Small* **2009**, *5*, 2371.
73. Yang Cao, Song Liu, Qian Shen, Kai Yan, Pingjian Li, Jun Xu, Dapeng Yu, Michael L. Steigerwald, Colin Nuckolls, Zhongfan Liu*, and Xuefeng Guo*, High-Performance Photoresponsive Organic Nanotransistors with Single-Layer Graphenes as Two-Dimensional Electrodes, *Adv. Funct. Mater.* **2009**, *19*, 2743.
74. Qian Shen, Yang Cao, Song Liu, Michael L. Steigerwald*, and Xuefeng Guo*, Conformation-Induced Electrostatic Gating of the Conduction of Spiropyran-Coated Organic Thin-Film Transistors, *J. Phys. Chem. C* **2009**, *113*, 10807.
75. Xuefeng Guo* and Colin Nuckolls*, Functional single-molecule devices based on SWNTs as point contacts, *J. Mater. Chem.* **2009**, *19*, 5470.
76. Zhongming Wei, Yang Cao, Weizhu Ma, Chengliang Wang, Wei Xu, Xuefeng Guo, Wenping Hu, and Daoben Zhu, Langmuir–Blogett monolayer transistors of copper phthalocyanine, *Appl. Phys. Lett.* **2009**, *95*, 033304.
77. Alina Feldmen, Michael L. Steigerwald, Xuefeng Guo*, and Colin Nuckolls*, Molecular Electronic Devices Based on Single-Walled Carbon Nanotube Electrodes, *Acc. Chem. Res.* **2008**, *41*, 1731 (Invited Review).
78. Xuefeng Guo*, Deqing Zhang, Daoben Zhu, Minireview: molecular level devices based on electroactive tetrathiafulvalene and photochromic spiropyran, *Journal of the Graduate School of the Chinese Academy of Sciences* **2008**, *25*, 419.
79. Guiyuan Jiang, Yanlin Song, Xuefeng Guo, Deqing Zhang, Daoben Zhu, Organic Functional Molecules towards Information Processing and High-Density Information Storage, *Adv. Mater.* **2008**, *20*, 2888.
80. Xuefeng Guo, Alon Gorodetsky, Jacqueline K. Barton, James Hone, Colin Nuckolls, Conductivity of a single DNA duplex bridging a carbon nanotube gap, *Nat. Nanotechnol.* **2008**, *3*, 163.
81. Adam C. Whalley, Michael L. Steigerwald, Xuefeng Guo*, and Colin Nuckolls*, Reversible Switching in Molecular Electronic Devices, *J. Am. Chem. Soc.* **2007**, *129*, 12590. highlighted by Nature Nanotechnology.
82. Xuefeng Guo, Adam Whalley, Jennifer E. Klare, Limin Huang, Stephen O'Brien, Colin Nuckolls, Single-Molecule Devices as Scaffolding for Multicomponent Nanostructure Assembly, *Nano Lett.* **2007**, *7*, 1119. (Cover of this issue)
83. Min Feng, Li Gao, Shixuan Du, Zhitao Deng, Zhihai Cheng, Wei Ji, Deqing Zhang, Xuefeng Guo, Xiao Lin, Lifeng Chi, Daoben Zhu, Harald Fuchs, Hongjun Gao, Observation of structural and conductance transition of rotaxane molecules at a submolecular scale. *Adv. Funct. Mater.* **2007**, *17*, 770.
84. Xuefeng Guo, Yucheng Zhou, Min Feng, Yu Xu, Deqing Zhang, Hongjun Gao, Qinghua Fan, Daoben Zhu, Tetrathiafulvalene-, 1,5-Dioxynaphthalene-, and Cyclobis(paraquat-*p*-phenylene) -based [2]Rotaxanes with Cyclohexyl and Alkyl Chains as the Spacers: Synthesis, LB Films and Electrical Bistability, *Adv. Funct. Mater.* **2007**, *17*, 763.
85. Min Feng, Li Gao, Zhitao Deng, Wei Ji, Xuefeng Guo, Shixuan Du, Dongxia Shi, Deqing Zhang, Daoben Zhu, Hongjun Gao, Reversible, Erasable, and Rewritable Nanorecording on an H2 Rotaxane Thin Film, *J. Am. Chem. Soc.* **2007**, *129*, 2204.
86. Xuefeng Guo, Joshua P. Small, Jennifer E. Klare, Yiliang Wang, Iris Tam, Meninder S. Purewal, Byung Hee Hong, Robert Caldwell, Limin Huang, Stephen O'Brien, Jiaming Yan, Ronald Breslow, Shalom J. Wind, James Hone, Philip Kim, Colin Nuckolls, Covalently Bridging Gaps in Single-Walled Carbon Nanotubes with Conducting Molecules, *Science* **2006**, *311*, 356. "Nanotube Hookup", highlighted by *Scientific American*, April, **2006**.
87. Xuefeng Guo, Matthew Myers, Shengxiong Xiao, Michael Lefenfeld, Rachel Steiner, George S. Tulevski, Jinyao Tang, Julian Baumert, Frank Leibfarth, James T. Yardley, Michael L. Steigerwald, Philip Kim, Colin Nuckolls, Chemosensitive Monolayer Transistors, *Proc. Natl. Acad. Sci. U.S.A.* **2006**, *103*, 11452.
88. Shengxiong Xiao, Jinyao Tang, Tobias Beetz, Xuefeng Guo, Noah Tremblay, Theo Siegrist, Yimei Zhu, Michael L. Steigerwald, Colin Nuckolls, Transferring Self-Assembled, Nanoscale Cables into Electrical Devices, *J. Am. Chem. Soc.* **2006**, *128*, 10700.
89. Xuefeng Guo, Limin Huang, Stephen O'Brien, Philip Kim, Colin Nuckolls, Directing and Sensing Changes in Molecular Conformation on Individual Carbon Nanotube Field Effect Transistors, *J. Am. Chem. Soc.* **2005**, *127*, 15045.
90. Min Feng, Xuefeng Guo, Xiao Lin, Xiaobo He, Deqing Zhang, Daoben Zhu, Hongjun Gao, Stable, Reproducible Nanorecording on Rotaxane Thin Film, *J. Am. Chem. Soc.* **2005**, *127*, 15338.
91. Xuefeng Guo, Deqing Zhang, Daoben Zhu, Logic Control of the Fluorescence of a New Dyad: Spiropyran-Perylene Diimide-Spiropyran with Light, Ferric ion and Proton: Construction of a New Three-input "AND" Logic Gate, *Adv. Mater.* **2004**, *16*, 125.
92. Xuefeng Guo, Deqing Zhang, Gui Yu, Meixiang Wan, Junchao Li, Yunqi Liu, Daoben Zhu, Reversible Photoregulation of the Electrical Conductivity of the Spiropyran-doped Polyaniline for Information Recording and Nondestructive Processing, *Adv. Mater.* **2004**, *16*, 636.
93. Hongmei Wang, Deqing Zhang, Xuefeng Guo, Linyun Zhu, Zhigang Shuai, Daoben Zhu, Tuning the fluorescence of perylene with imino nitroxide unit: mimicking the function of an AND logic gate, *Chem. Commun.* **2004**, 670.
94. Xuefeng Guo, Yucheng Zhou, Deqing Zhang, Bing Yin, Zhiliang Liu, Caiming Liu, Zhengliang Lu, Yuanhe Huang,

- Daoben Zhu, 7-Trifluoromethylquinoline-Functionalized Luminescent Photochromic Spiropyran with the Stable Merocyanine Species Both in Solution and in the Solid State, *J. Org. Chem.* **2004**, *69*, 8924.
95. Xuefeng Guo, Deqing Zhang, Guanxing Zhang, Daoben Zhu, 'Mono- molecular' Logic: Half Adder Based on Multistate/multifunctional Spiropyran, *J. Phys. Chem. B* **2004**, *108*, 11942.
 96. Xuefeng Guo, Deqing Zhang, Daoben Zhu, Photo-controlled Electron Transfer Reaction between a New Dyad: Tetrathiafulvalene– Photochromic Spiropyran and Ferric ion, *J. Phys. Chem. B* **2004**, *108*, 212.
 97. Xuefeng Guo, Deqing Zhang, Hairong Tao, Daoben Zhu, Concatenation of Two Molecular Switches via a Fe(II)/Fe(III) Couple, *Org. Lett.* **2004**, *6*, 2491.
 98. Guanxin Zhang, Deqing Zhang, Xuefeng Guo, Daoben Zhu, A Novel electrochemical Fluorescence Switch Based on the Dyad with tetrathiafulvalene and anthracene moiety, *Org. Lett.* **2004**, *6*, 1209.
 99. Xuefeng Guo, Deqing Zhang, Qinghua Fan, Daoben Zhu, Synthesis and Characterization of Donor-Acceptor-Donor Triads Containing Tetrathiafulvalene and Naphthalene Diimide Units: Towards Regulation of the Intermolecular Charge-Transfer Interaction by Varying the Attached Side Groups, *Chinese Journal of Chemistry* **2004**, *22*, 296.
 100. Xuefeng Guo, Deqing Zhang, Guanxing Zhang, Daoben Zhu, Fluorescence modulation for the multimolecular communicating ensembles with light and ferric ion: photocontrol of the intermolecular photoinduced electron transfer, *Chem. Phys. Lett.* **2004**, *398*, 93.
 101. Huabei Zhang, Mei Dai, Chuanmin Qi, Bo Li, Xuefeng Guo, Synthesis, biodistribution and quantitative structure-activity relationship studies of new $^{99}\text{Tc}^{\text{m}}$ labeled pseudo-peptide complexes, *Applied radiation and isotopes* **2004**, *60*, 643.
 102. Xuefeng Guo, Deqing Zhang, Yucheng Zhou, Daoben Zhu, Synthesis and Spectral Investigations of a New Dyad with Spiropyran and Fluorescein Units: Toward Information Processing at the Single Molecular Level, *J. Org. Chem.* **2003**, *68*, 5681.
 103. Xuefeng Guo, Deqing Zhang, Tongxin Wang, Daoben Zhu, Reversible regulation of pyrene excimer emission by light and metal ions in the presence of photochromic spiropyran: toward creation of a new molecular logic circuit, *Chem. Commun.* **2003**, 914.
 104. Xuefeng Guo, Zhenhai Gan, Hongxia Luo, Yasuyuki Araki, Deqing Zhang, Daoben Zhu, Osamu Ito, Photoinduced Electron-Transfer Processes of Tetrathiafulvalene-(Spacer)-(Naphthalene- diimide)-(Spacer)-Tetrathiafulvalene triads in Solution, *J. Phys. Chem. A* **2003**, *107*, 9747.
 105. Xuefeng Guo, Deqing Zhang, Yucheng Zhou, Daoben Zhu, Reversible modulation of the fluorescence of pyrenemethylamine hydrochloride by light in the presence of spiropyran: signal communication between two molecular switches through proton transfer, *Chem. Phys. Lett.* **2003**, *375*, 484.
 106. Xuefeng Guo, Deqing Zhang, Huijuan Zhang, Qinghua Fan, Wei Xu, Xicheng Ai, Louzheng Fan, Daoben Zhu, Donor-acceptor-donor triads incorporating tetrathiafulvalene and perylene diimide units: synthesis, electrochemical and spectroscopic studies, *Tetrahedron* **2003**, *59*, 4843.
 107. Xuefeng Guo, Deqing Zhang, Wei Xu, Daoben Zhu, Synthesis and properties of Donor-acceptor-donor triads containing tetrathiafulvalene and naphthalene diimide units, *Synthetic Metals* **2003**, *137*, 981.
 108. Huabei Zhang, Bo Li, Chuanmin Qi, Mei Dai, Xuefeng Guo, Synthesis and biodistribution of mixed complexes of $^{99}\text{Tc}^{\text{m}}$ -phosphine, *Journal of Nuclear and Radiochemistry* **2003**, *25*, 31.
 109. Chuanmin Qi, Lingchun Yang, Huabei Zhang, Xuefeng Guo, Shujuan Feng, Bo Li, Synthesis of novel N_3S pseudo-peptide and biodistribution of $^{99}\text{Tc}^{\text{m}}$ -pseudo-peptide complexes in mice, *Medicinal Chemistry Research* **2003**, *11*, 345.
 110. Huabei Zhang, Bo Li, Chuanmin Qi, Mei Dai, Xuefeng Guo, Preparation and biodistribution of mixed complexes of $^{99}\text{Tc}^{\text{m}}$ -phosphine, *Nuclear Techniques* **2003**, *26*, 613.
 111. Lingchun Yang, Xuefeng Guo, Chuanmin Qi, Amelioration of the synthetic method of small polypeptides and its application, *Journal of Beijing Normal University (Natural Science)* **2003**, *39*, 96.
 112. Huabei Zhang, Bo Li, Chuanmin Qi, Mei Dai, Xuefeng Guo, Preparation and biodistribution of mixed complexes of $^{99}\text{Tc}^{\text{m}}$ -phosphine, *Hejishu* **2003**, *26*, 613.
 113. Chunyang Jia, Deqing Zhang, Xuefeng Guo, Shuhui Wan, Wei Xu, Daoben Zhu, Facile Syntheses of 4-(2-Cyanoethylthio)-1,3-dithiole-2-thione and New Electron Donors with Two TTF Units and Compounds with Bis(1,3-dithiole-2-thione) Groups, *Synthesis* **2002**, 2177.
 114. Chuanmin Qi, Xuefeng Guo, Huabei Zhang, Bo Li, Wei Jin, Mei Dai, Synthesis of labeled small peptide complexes for imaging agent with technetium-99m and biodistribution in mice, *Acta Pharmaceutica Sinica* **2002**, *37*, 522.
 115. Chuanmin Qi, Xuefeng Guo, Huabei Zhang, Bo Li, Shujuan Feng, Lingchun Yang, Synthesis of new N_3S pseudo-peptide complexes and biodistribution of in mice, *Acta Pharmaceutica Sinica* **2002**, *37*, 428.
 116. Huabei Zhang, Xuefeng Guo, Chuanmin Qi, Bo Li, Shujuan Feng, Wei Jin, Lingchun Yang, Boli Liu, Mei Dai, Synthesis of labeled peptide complexes with technetium-99m and biodistribution of in mice, *Journal of Nuclear and Radiochemistry* **2002**, *24*, 198.
 117. Huabei Zhang, Bo Li, Chuanmin Qi, Yi Xie, Xuefeng Guo, Mei Dai, Bili Liu, Preparation and biodistribution of mixed $^{99}\text{Tc}^{\text{m}}$ -phosphine complexes, *Journal of Nuclear and Radiochemistry* **2002**, *24*, 84.
 118. Shujuan Feng, Chuanmin Qi, Xuefeng Guo, Synthesis of new N_3S pseudo-peptide complexes, *Journal of Beijing*

Normal University (Natural Science) **2002**, 38, 506.

- 119.**Chuanmin Qi, Xuefeng Guo, Guanxin Zhang, Shujuan Feng, Lingchun Yang, synthesis and activities of novel chiral aminodiol catalysts, *Journal of Beijing Normal University (Natural Science)* **2001**, 37, 657.
- 120.**Chuanmin Qi, Guanxin Zhang, Xuefeng Guo, Yunfeng Wang, Xuxia Chen, Addition of chiral schiff bases and synthesis of amino phosphonic esters, *Journal of Beijing Normal University (Natural Science)* **2001**, 37, 535.
- 121.**Chuanmin Qi, Yunfeng Wang, Guanxin Zhang, Xuefeng Guo, Xuxia Chen, Yun Ling, Wanyi Chen, Synthesis and fungicidal activity of chiral-amino phosphoric acid and their esters, *Zhongguo Yaowu Huaxue Zazhi* **2001**, 11, 329.