2014 年重点实验室学术论文发表情况

SCI 收录 40 篇（1 区 7 篇，2 区 13 篇，3 区 10 篇，其他 10 篇）

1. Yanxia Cui (崔艳霞), Yingran He, Yi Jin, Fei Ding, Liu Yang, Yuqian Ye, Shoumin Zhong Yinyue Lin, Sailing He*, Plasmonic and metamaterial structures as electromagnetic absorbers, Laser & Photonics Rev. 8 (2014) 495–520. (SCI 1 区, IF=9.313) (第二署名)
2. Zhi-Hui Chen (陈智辉)*, Y. Wang, Yibiao Yang, Na Qiao, Yuncai Wang, Z. Yu, Enhanced Normal-Direction Excitation and Emission of Dual-Emitting Quantum Dots on a Cascaded Photonic Crystal Surface, Nanoscale, 6 (2014) 14708–14715. (SCI 1 区, IF=6.739) (第一署名)
3. Y. Zhao, X. Liu (刘欣), D. Lei* and Y. Chai*, Bifunctional Au@Pt core–shell nanostructures for in situ monitoring of catalytic reactions by surface-enhanced Raman scattering spectroscopy, Nanoscale, 6 (2014) 1311–1317. (SCI 1 区, IF=6.739) (第二署名)
4. Z.Y. Bao, X. Liu (刘欣), Y. Chen, Y. Wu, Helen L. W. Chan, J. Dai, D. Y. Lei, Quantitative SERS detection of low-concentration aromatic polychlorinated biphenyl-77 and 2,4,6-trinitrotoluene, Journal of Hazardous Materials, 280 (2014) 706-712. (SCI 1 区, IF=4.331) (第二署名)
5. X. Li (李晓春)*, S. Weng, B. Ge, Z. Yao, H. Yu*（于化忠）, DVD technology-based molecular diagnosis platform: quantitative pregnancy test on a disc, Lab ON A CHIP, 14 (2014) 1686. (SCI 1 区, IF=5.748) (第一署名)
6. Quan, Zhongyi; Quan, Long(权龙); Zhang, Jinman，Review of energy efficient direct pump controlled cylinder electro-hydraulic technology, Renewable & Sustainable Energy Reviews, 35（2014）336-346.(SCI 1区, IF=5.510) (第一署名)
7. Shengbo Sang（桑胜波）, Yuan Zhao, Wendong Zhang*, Pengwei Li, Jie Hu, Gang Li. Surface stress-based biosensors, Biosensors & Bioelectronics, 51(2014) 124–135 (SCI 1区, 6.451)(第二署名)
8. Z.Y. Bao, X. Liu (刘欣), J. Dai, Y. Wu, Yuen Hong Tsang, D. Y. Lei, In situ SERS monitoring of photocatalytic organic decomposition using recyclable TiO2-coated Ag nanowire arrays, Applied Surface Science, 301 (2014) 351-357. (SCI 2 区, IF=2.538) (第二署名)
9. Gang Li(李 刚), Wendong Zhang, Pengwei Li, Shengbo Sang, Jie Hu, Qinghua Zhao, Xuyuan Chen, Investigation of Charge Relaxation in Silicon Nitride for the Reliability of Electrostatically Driven Capacitive MEMS Devices, IEEE Transactions on Electron Devices, 61(2014)2963-2969. (SCI 2 区, IF=2.358) (第二署名)
10. X. Li (李晓春)*, M. Shi, C. Cui (崔彩娥), H. Yu*（于化忠）, Inkjet-Printed Bioassays for Direct Reading with a Multimode DVD/Blu-Ray Optical Drive, Analytical Chemistry, 86(2014) 8922. (SCI 2 区, IF=5.825) (第一署名)
11. X. Zhao, X. Li (李晓春) *, C. Cui (崔彩娥), H. Yu (于化忠)*, DVD diagnostic software for reading disc-based bioassays, acomparative study, SENSORS AND ACTUATORS B-CHEMICAL, 195 (2014) 116. (SCI 2 区, IF=3.840) (第一署名)
12. Wenyan Wang, Yuying Hao (郝玉英)*, Yanxia Cui (崔艳霞)*, Ximin Tian, Ye Zhang, Hua Wang, Fang Shi, Bin Wei, Wei Huang, High-efficiency broad-band and wide-angle optical absorption in ultra-thin organic photovoltaic devices, Optics Express, 22 (2014) A376–A385. (SCI 2 区, IF=3.525) (第一署名)
13. Wenjie Wang(王文杰), Yan Sheng, Shaoding Liu, et al. Manipulation of quadratic cascading processes in a locally quasi-periodic χ(2)medium, Optics Express, 22 (2014) 6976. (SCI 2 区, IF=3.525) (第一署名)
14. W. Wang, Y. Cui(崔艳霞)*, Y. He, Y. Hao（郝玉英）*, Y. Lin, X. Tian, T. Ji, and S. He, Efficient multiband absorber based on one-dimensional periodic metal/dielectric photonic crystal with a reflective

substrate, Opt. Lett. 39(2), 331-334 (2014).(SCI 2 区, IF= 3.179) (第一署名)

15. Lei Li, Anbang Wang(王安帮), Hang Xu, Pu LI, Longsheng Wang, Yuncai Wang (王云才)*, Random Bit Generator Using Delayed Self-Difference of Filtered Amplified Spontaneous Emission, IEEE Photonics Journal, 6 (2014) 7500109. (SCI 2 区, IF=2.330) (第一署名)
16. Mingjiang Zhang (张明江)*, Yongning Ji, Yongning Zhang, Yuan Wu,Hang Xu, Weipeng Xu, Remoto radar based on chaos generation and radio over fiber, IEEE Photonics Journal, 6 (2014) 7902412. (SCI 2 区, IF=2.330) (第一署名)
17. Dong Wang (王东)*, Yu-Li Wu, Bao-Quan Jin, Peng Jia, Dong-Mei Cai, A phase distribution design method for phased arrays multi-beam independently generating and three-dimensional scanning, IEEE Photonics Journal, 6 (2014)1–11. (SCI 2 区, IF=2.330) (第一署名)
18. XiaoHong Han(韩晓红), Long Quan, Xiaoyan Xiong, A modified gravitational search algorithm based on sequential quadratic programming and chaotic map for ELD optimization, Knowledge and Information Systems. (SCI 2区, IF=2.639) (第一署名)
19. Han XiaoHong(韩晓红), Chang XiaoMing, Quan Long, Xiong XiaoYan, Li, JingXia, Feature subset selection by gravitational search algorithm optimization, Information Sciences, 281 (2014) 128-146(SCI 2 区, IF=3.893) (第一署名)
20. Zhihui Wang, Zhanfeng Li (李战锋)*, Haiqing Zhang, Weipeng Liu, Xiaoxiang Xu, Changfeng Si, Yanxia Cui, Qinjun Sun, Hua Wang, Fang Shi, Yuying Hao (郝玉英)*, A Conjugated Random Copolymer of Benzodithiophene-Difluorobenzene-Diketopyrrolopyrrole with Full Visible-Light Absorption for Bulk-Heterojunction Solar Cells, MACROMOLECULAR CHEMISTRY AND PHYSICS. 215 (2014) 2119−2124. (SCI 3 区, IF=2.451) (第一署名)
21. Wenjie Wang*(王文杰), Yan Sheng, Xiaoying Niu, et al. Second harmonic Čerenkov radiation in bulk birefringent quadratic medium without any χ(2) modulation, OPTICS AND LASER TECHNOLOGY, 58 (2014) 16. (SCI 3 区, IF=1.649) (第一署名)
22. L. Y. Yin, Y. H. Huang, X. Wang, S. T. Ning, and S. D. Liu*(刘绍鼎), Double Fano resonances in nanoring cavity dimers: The effect of plasmon hybridization between dark subradiant modes, AIP Advances, 4 (2014) 077113. (SCI 3 区, IF=1.590)(第一署名)
23. Min Huang, AnbangWang(王安帮), PuLi, HangXu, YuncaiWang (王云才)*, Real-time 3 Gbit/s true random bit generator based on a super-luminescent diode, Optics Communications, 325 (2014) 165–169. (SCI 3 区, IF=1.542) (第一署名)
24. Yongning Ji, Mingjiang Zhang (张明江)*, Yuncai Wang, Peng Wang, Anbang Wang, Yuan Wu,Hang Xu, and Yongning Zhang, Microwave-Photonic Sensor for Remote Water-Level Monitoring Based on Chaotic Laser, International Journal of Bifurcation and Chaos, 24 (2014) 1450032. (SCI 3 区, IF=1.017) (第一署名)
25. Hang Xu(徐航), Bingjie Wang(王冰洁), Jingxia Li, Anbang Wang, and Yuncai Wang (王云才)*, Location of wire faults using chaotic signal generated by an improved Colpitts oscillator. International Journal of Bifurcation and Chaos, 24 (2014) 1450053. (SCI 3 区, IF=1.017) (第一署名)
26. Shengbo Sang（桑胜波）, Qiliang Feng, Aoqun Jian, Qianqian Duan, Kun Lian, Wendng Zhang*, Uses of Alkanethiol Effects on Surface Functionalization of Gold Membranes for Biosensors, IEEE Sensors Journal. doi.org/10.1109/JSEN.2014.2366460, 31 Oct 2014.(SCI 3区，1.852) (第二署名)
27. Shengbo Sang(桑胜波), Peng Cheng,Wendong Zhang,e tal. Investigation on a new Fe83Ga17 wire–based magnetoelastic resonance biosensor, Journal of Intelligent Material Systems and Structures,(2014)1-8. (SCI 3区, IF=2.172) (第二署名)
28. Ye Wei（魏也）, Haifei Zhan, Kang Xia, Wendong Zhang, Shengbo Sang*（桑胜波）and Yuantong Gu，Resonance of graphene nanoribbons doped with nitrogen and boron: a molecular dynamics study,

BEILSTEIN JOURNAL OF NANOTECHNOLOGY. 2014, 5, 717–725. (SCI 3区, IF=2.326) (第一署名)

29. Aoqun Jian(菅傲群), Lili Deng, Duan Qianqian, Shengbo Sang and Wendong Zhang*, Surface Plasmon Resonance Sensor Based on an Angled Optical Fiber, IEEE Sensors Journal, 2014. (SCI 3 区，IF=1.852) (第二署名)
30. G. Li(李国辉), J. Wang, Y. Cui, Possibility of high power UV light generation in periodically poled MgO doped lithium niobate waveguides, Opt Quant Electron,(2014). (SCI 4 区, IF=1.078) (第一署名)
31. Shengbo Sang（桑胜波）, Qiang Shi, Lili Deng, Aoqun Jian*, Hui Zhang, Wendong Zhang*, Theoretical study on sensing performance of hydrogen annealed silicon waveguides, Journal of Modern Optics, 2014, (10):978846. (SCI 4 区，IF=1.169)(第二署名)
32. L. Liu (刘丽), Y. T. He, J. G. Zhang, H. Y. Jia, J. Ma. Optimum linear array for aperture synthesis imaging based on redundant spacing calibration, Optical Engineering, 53 (2014) 053109. (SCI 4区, IF=0.958)(第一署名)
33. Baoquan Jin(靳宝全), Xin Liu, Hongjuan Zhang, Liquid level sensor based on the coaxial cable capacitance mechanism, Sensor Letters, 11 (2013) 2105. (SCI 4区, IF=0.558) (第一署名)
34. 郝锐，邓霄*，杨毅彪，陈德勇，ZnO 纳米线/棒阵列的水热法制备及应用研究进展，化学学报，72 (2014) 1199-1208 (SCI 4区, IF=0.622) (第二署名)
35. Wendong Zhang, Xuge Fan, Shengbo Sang（桑胜波）, Pengwei Li, Gang Li, Yongjiao Sun and Jie Hu*(胡杰), Fabrication and characterization of silicon nanostructures based on metal-assisted chemical etching, Korean Journal of Chemical Engineering, 31, 62-67, 2014(SCI 4区, IF=1.241) (第二署名)
36. Qianqian Duan（段倩倩）, Hua zhao, Zhiguo Zhang, Wendong Zhang, Shengbo Sang* et al. Abnormal visible luminescence mechanism of Tb3+-Yb3+ codoped SiO2-Al2O3-CaF2 glass studied by time-resolved spectra, Chinese Physics Letters. 2014,31(8):087801. (SCI 4区, IF=0.924) (第二署名)
37. Jie Hu*(胡杰), Deng Xiao, Sang Sheng-Bo, Li Peng-Wei, Li Gang and Zhang Wen-Dong, Fabrication and characteristics of ZnO nanowires array gas sensor based on microfluidics, ACTA PHYSICA SINICA, 63, 20 207102, 2014, (SCI 4区, IF=0.845) (第二署名)
38. Yang Wang(王洋), Guocai Li, Yakun Xu and Jie Hu*(胡杰), An Algorithm for Mining of Association Rules for the Information Communication Network Alarms Based on Swarm Intelligence, Mathematical Problems in Engineering, 2014, 1-14, 2014(SCI 4区, IF= 1.082) (第二署名)
39. 黄家海，权龙, Development of an asymmetric axial piston pump for displacement-controlled system, Journal of Mechanical Egnineering Science, 228 (2014) 1418-1430. (SCI 4区) (第一署名)
40. 黄家海，权龙，Development of a dual-acting axial piston pump for displacement controlled system，Journal of Engineering Manufacture, 228 (2014) 606-616. (SCI 4 区)(第一署名)

EI 收录 15 篇

1. Han, XiaoHong(韩晓红); Quan, Long; Xiong, XiaoYan; Wu, Bing，Diversity enhanced and local search accelerated gravitational search algorithm for data fitting with B-splines，Engineering with Computers，12：1-22.(EI) (第一署名)
2. Gao Yan, Jin Baoquan(靳宝全), Zhang Hongjuan, The vibration mechanism caused by external disturbance and suppression method of the rolling mill system, Energy Education Science and Technology Part A: Energy Science and Research, 31 (2013) 2623-2326. (EI)(第二署名)
3. 王成宾，权龙. 大惯量负载液压冲击的主动变阻尼抑制方法，机械工程学报，2014.8.(EI) (第一署名) (奖励按 SCI 4区)
4. 王松峰，赵虎，权龙，麻慧君. 流量反馈型电液比例方向阀动静态特性研究，机械工程学报，2014.8(EI). (第一署名) (奖励按 SCI 4区)
5. 王永进，权龙，杨敬. 大型正铲液压挖掘机斗杆升降回路及特性，机械工程学报，2014.10.(EI) (第一

署名) (奖励按 SCI 4区)

6. 柏艳红，权龙，郝小星，李晖，基于流量近似的阀控液压缸动力机构建模，机械工程学报，50(24), 2014.12,179-185. (EI) (第二署名) (奖励按 SCI 4区)
7. 乔铁柱，陈昕，王峰，靳宝全，基于视频动态人物自适应标定技术，仪器仪表学报，35 (2014) 1086. (EI) (第一署名)
8. 袁树青，朱媛莉，王振国，郝玉英*，王华，许并社，基于空间电荷限制电流模型的 FeCl3 掺杂 CBP 的空穴迁移率研究，光电子，激光, 25 (2014) 1288. (EI) (第一署名)
9. 程鹏，高爽，张文栋，桑胜波*，基于阻抗响应的磁弹性传感器共振频率测量系统，光学精密工程，22 (2014) 3012–3018. (EI) (第二署名)
10. 韩昌盛，杨毅彪*，王云才，费宏明，陈智辉，李祥霞，二维介质柱形 Archimedes 复式晶格光子晶体禁带特性研究. 光子学报, 43(2014), 06160031. (EI) (第二署名)
11. 郑淑娟，权龙. 锥台形液压锥阀过流面积 CFD 可视化计算，农业机械学报，2014.4(EI). (第一署名)
12. 武兵，贾峰，熊晓燕. 基于最大相关峭度反褶积的轴承故障诊断方法，振动.测试与诊断，2014.06.(EI) (第一署名)
13. 贾峰，武兵，熊晓燕，熊诗波. 基于多维度排列熵与支持向量机的轴承早期故障诊断方法，计算机集成制造系统，2014.09.(EI) (第二署名)
14. 郭兴军,李朋伟，张文栋,胡杰,李刚(通讯)，基于电容式 MEMS 器件的静电斥力驱动研,仪器仪表学报，8(2014). (EI) (第二署名)
15. 刘颖，王艳芬，李刚，桑胜波，李朋伟*，MEMS 低频压电振动能量采集器，光学精密工程，22(9), 202-208, 2014. (EI) (第二署名)

其他 33 篇

1. Baoquan Jin(靳宝全), Xiaohui Hao, Hongjuan Zhang, Yan Gao, The power supply design software model for mine based on VBA technology, Computer Modeling and New Technologies, 18 (2014) 127. (第一署名)
2. Baoquan Jin(靳宝全), Xin Liu, Hongjuan Zhang, Improvement on performance of electro-hydraulic central position control system by adaptive reaching law sliding mode method, Przeglad Elektrotechniczny, 90 (2014) 146. (第一署名)
3. 杨洋，靳宝全，李凤霞，井下积水水位监控预警装置设计，制造业自动化, 36 (2014) 150. (第二署名)
4. 杨洋，李凤霞，靳宝全，井下水情监测系统通信方案研究，矿山机械 42 (2014) 108. (第二署名)
5. 司昌楠，靳宝全，矿区水源井与供水管网远程监控系统研究，煤矿机械, 35 (2014) 219. (第一署名)
6. 王吉星，李凤霞，靳宝全，矿山水源井群远程测控系统设计，工矿自动化, 40 (2014) 90. (第二署名)
7. 龙欣，程 琦，秦建敏，黄河万家寨水利枢纽水库冰情定点连续自动监测系统的设计与应用，数学的认识与实践, 44 (2014) 71 - 79. (第一署名)
8. 白云华，崔丽琴，秦建敏，基于 Zigbee 与 GPRS 网络数据传输技术的黄河河道断面冰水情多点自动监测系统设计与应用，数学的认识与实践, 44 (2014) 101 - 107. (第一署名)
9. 周洋，秦建敏，李冠阳，彭锦，基于光纤光栅测量静冰压力的应用研究，数学的认识与实践, 44 (2014) 156 - 162. (第一署名)
10. 李冠阳，秦建敏，周洋，彭锦，基于 DS18B20 的冰层温度梯度-厚度传感器的设计，数学的认识与实践, 44 (2014) 150 - 157. (第一署名)
11. 王丽娟，秦建敏，梁海涛，叶强，基于冰情检测环境的无线传感器网络路由协议研究，数学的认识与实践, 44 (2014) 203 - 211. (第一署名)
12. 闫晓燕，秦建敏，乔记平，基于磁异常检测的飞机测速定位系统的研究，传感技术学报，27 (2014) 213 - 216. (第一署名)

13. 乔记平, 秦建敏, 闫晓燕, 张朝霞, 相关光谱式气体检测系统的光学仿真及优化, 数学的认识与实践, 44 (2014) 193－198. (第一署名)
14. 王云才, 王安帮, 李璞, 高速实时物理随机码发生器, 中国密码学会通信, 6 (2014) 12－16.（李璞）
15. 李璞, 王云才, 面向高速保密通信的激光混沌物理随机数发生器研究进展, 激光与光电子学进展, 51 (2014)13－24. (第一署名)
16. 王云才, 张建国, 徐航, 王安帮, 基于混沌信号的光时域反射仪, 光学仪器, 36 (2014) 449－454. (第一署名)
17. 韩栋梁, 黄家海, 权龙, 庞江瑞. 多晶硅铸锭炉隔热屏的优化及数值模拟，半导体技术，2014.07（核心）(第一署名)
18. 庞江瑞, 黄家海, 权龙. 多晶硅铸锭炉热场结构的优化及数值模拟，铸造技术，2014.08（核心）(第一署名)
19. 樊文建, 杨敬, 权龙. 铰接式装载机转向特性的分析与试验研究，液压与气动，2014.08（核心）(第一署名)
20. 韩栋梁, 黄家海, 权龙, 庞江瑞. 基于 Opto22 PAC 控制器的多晶硅铸锭炉控制系统设计，制造业自动化，2014.（核心）(第一署名)
21. 高国栋, 权龙, 葛磊. 液压挖掘机振动掘削控制系统设计与仿真，液压与气动，2014.08（核心）(第一署名)
22. 骆庆群, 杨洁明. 基于纳米气泡的煤炭浮选模型研究，太原理工大学学报，2014.02（核心）(第一署名)
23. 张博, 程珩. 倒频谱在直驱风机主轴轴承故障诊断中的应用，机械设计与制造，2014.07（核心）(第一署名)
24. 张水明, 程珩. 风电机叶片外形参数的逆向优化方法研究，机械设计与制造，2014.02（核心）(第一署名)
25. 吕玥婷, 权龙. 液压滑阀液固热多物理场耦合分析研究，液压与气动，2014.（核心）(第一署名)
26. 秦天雨, 权龙. 柱塞倾斜角大小对轴向柱塞特性的影响，太原理工大学学报，2014.（核心）
27. 李瑾, 程珩. 基于无源自振抑制的小盲区超声测距方法研究，振动、测试与诊断，（核心）
28. 苏帅团, 熊诗波. 风力发电机齿轮传动系统的动态特性分析，机械设计与制造，（核心）(第二署名)
29. 章良芳, 魏晋宏. 基于 LabVIEW 的风速与瓦斯浓度测试系统设计，煤炭技术（核心）(第二署名)
30. 郝云晓, 黄家海, 权龙. 新型高速开关转阀性能分析，液压与气动，2014.12（核心）
31. 郑淑娟, 权龙, 王全文. 平底锥阀内流工况稳态液动力的研究，液压与气动，2014.08（核心）(第一署名)
32. 顾成祥, 熊晓燕, 林世芳, 朱尊宝. 结构参数对单轴振动筛振动特性的影响，机械设计与制造，2014.11（核心）(第一署名)
33. 程鹏, 高爽, 张文栋, 桑胜波*, 基于磁致伸缩的便携式液体黏度测量仪设计, 太原理工大学学报, 45 (2014) 837. (第二署名)