



Department Of  
Material Science

# 复旦大学材料科学系

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- › 本系概况
- › 组织机构
- › 师资队伍
- › 科研简介
- › 学生园地
- › 招生就业
- › English Version

## 科研机构

- › 国家微分析中心
- › 教育部先进涂料工程研究中心
- › 纳米技术发展中心
- › 复旦大学光纤中心
- › 联合实验室



## 人才培养

- › 本科生
- › 研究生
- › 工程硕士
- › 学术交流



## 科研成果

- › 2007年
- › 2006年
- › 2005年



## 系内服务

- › 仪器设备共享
- › 系内FTP
- › 资料服务
- › 学生网首页
- › 招聘启事

2007年

SCI 论文

材料化学

序号	论文题目	发表期刊	作者	所属分区	Impact Factor
1	Photomechanics of Liquid-Crystalline Elastomers and Other Polymers	ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 46 (4): 506-528 2007	Tomiki Ikeda*, Jun-ichi Mamiya, Yanlei Yu	1	10.232
2	Photomechanical Effects of Ferroelectric Liquid-Crystalline Elastomers Containing Azobenzene Chromophores	ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 46 (6): 881-883 2007	Yanlei Yu, Taketo Maeda, Jun-ichi Mamiya, Tomiki Ikeda*	1	10.232
3	Preparation of W0.3H2O Nanotubes under mild conditions	Advanced Functional Materials, 17, 1790-1794 (2007)	Wang ZX, Zhou SX, Wu LM*	1	6.779
4	Detection of DNA Using Cationic Polyhedral Oligomeric Silsesquioxane Nanoparticles as the Probe by Resonance Light Scattering Technique	Biosensors & Bioelectronics, 22, 1461-1465 (2007)	Zou QC, Yang QJ, Song GW, Zhang SL, Wu LM*	3	4.132
5	Synthesis of Raspberry-like Silica/Polystyrene/Silica Multilayer Hybrid Particles via Miniemulsion Polymerization	Journal of Polymer Science-Part A: Polymer chemistry, 45, 1028-1037 (2007)	Qiao XG, Chen M, Zhou J, Wu LM*	3	3.405
6	A Novel and Facile Preparation Method of Hollow Silica Spheres Containing Small SiO2 Cores	Journal of Polymer Science-Part A: Polymer Chemistry, Vol.45, 3431-3439 (2007)	Cheng XJ, Chen M, Wu LM*, You B	3	3.405
7	Preparation and Thermochromic Property of Tungsten-doped Vanadium Dioxide Particles	Solar Energy Materials and Solar Cells, 91, 1856-1862(2007)	Shi JQ, Zhou SX, You B, Wu LM*	3	2.321
8	Micelles formed by self-assembling of polylactide/poly(ethylene glycol) block copolymers in aqueous solutions	JOURNAL OF COLLOID AND INTERFACE SCIENCE 314 (2): 470-477 OCT 15 2007	L. Yang, Z. X. Zhao, J. Wei*, A. El Ghzaoui, S. M. Li*	3	2.233
9	Rheological Behavior of Aqueous Organosilicone Resin Emulsion Stabilized by Colloidal Nanosilica Particles	Journal of Colloid and Interface Science, 310, 121(2007)	Huang H., You B., Zhou SX, Wu LM*	3	2.233
10	Enzymatic degradation of block copolymers obtained by sequential ring opening polymerization of L-lactide and ε-caprolactone	POLYMER DEGRADATION AND STABILITY 92 (10): 1769-1777 OCT 2007	Z. X. Zhao, L. Yang, Y. F. Hu, Y. He, J. Wei*, S. M. Li*	3	2.174
11	DSC analysis of isothermal melt-crystallization, glass transition and melting behavior of PLA with different molecular weights	EUROPEAN POLYMER JOURNAL 43 (10): 4431-4439 OCT 2007	Yong He, Zhongyong Fan*, Yanfei Hu, Tong Wu, Jia Wei, Suming Li	4	2.113
12	Preparation and Fluorescent and Magnetic Properties of Polyurethane/Eu(MA)3 Film	Macromolecular Chemistry & Physics, 208(24), 2677-2685 (2007)	Zhou SX, Ying YJ, You Bo, Wu LM*, Chen M	3	2.021
13	Thermo-physical properties of epoxy nanocomposites reinforced with amino-functionalized multi-walled carbon nanotubes	COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING Volume: 38 Issue: 5 Pages: 1331-1336 Published: 2007	Jianfeng Shen, Weishi Huang, Liping Wu, Yizhe Hu and Mingxin Ye*	3	1.875
	Inverse gas chromatographic	Journal of Polymer			

14	characterization of triblock copolymer of polystyrene-poly(ethylene oxide)-polystyrene	Science-Part B: Polymer Physics, 45 (15): 2015-2022 (2007)	Zou QC, Wu LM*	3	1.622
15	Effect of Annealing on the Microphase Separated Behavior and Properties of PDMS-MDI-PEG Multiblock Copolymer Films	Journal of Polymer Science-Part B: Polymer physics, 45 (2): 208-217 (2007)	Fang HX, Feng LB, You B, Wu LM*	3	1.622
16	Modification of Colloidal Silica on the Mechanical Properties of Acrylic Based Polyurethane/ Silica Composites	Colloids and Surfaces A: Physicochemical and Engineering Aspects, 296, 29-36 (2007)	Guodong Chen, Shuxue Zhou, Guangxin Gu, Limin Wu*	4	1.611
17	Synthesis and Surface Properties of Poly(methyl methacrylate) /Poly(ethylene glycol) Binary Brushes	Macromolecular Materials & Engineering, 292, 6, 754-761 (2007)	Feng LB, Gu GX, Chen M, Wu LM*	4	1.498
18	Finite Element Analysis of Residual Thermal Stress in Ceramic-Lined Composite Pipe Prepared by Centrifugal-SHS.	Materials Science and Engineering A. 2007, 460:130-134	Wang Y. F., Yang Z.G.*	2	1.490
19	Dependence of critical pitting temperature on the concentration of sulphate ion in chloride-containing solutions	APPLIED SURFACE SCIENCE 253 (18): 7369-7375 JUL 15 2007	Deng B, Jiang YM, Liao JX, Hao YW, Zhong C, Li J*	2	1.436
20	Hydrolytic Degradation of Glycolide/Lactide/Caprolactone Terpolymers Initiated by Zirconium (IV) Acetylacetonate	Journal of Applied Polymer Science Volume 103, Issue 4, Date: 15 February 2007, Pages: 2451-2456	Yanfei Hu, Yong He, Jia Wei, Zhongyong Fan*, Piotr Dobrzynski, Janusz Kasperczyk, Maciej Bero, Suming Li	4	1.306
21	Synthesis and surface properties of polystyrene-graft-poly(ethylene glycol) copolymers	Journal of Applied Polymer Science, 103 (3): 1458-1465 FEB 5 2007	Feng LB, Fang HX, Zhou SX*, Wu LM	4	1.306
22	Synthesis and surface characterization of poly(methyl methacrylate)-block-polydimethylsiloxane copolymers from macroazoinitiator	Journal of Applied Polymer Science, 104 (5): 3356-3366 (2007)	Feng LB, Fang HX, Zhou SX*, Wu LM	4	1.306
23	The Microstructure and Anticorrosion Performance of Phytic Acid-catalyzed polysilsesquioxane Coatings	Journal of Sol-gel Science and Technology, 42 (2): 187-195(2007)	Xing WT, You B Wu LM*	2	1.009
24	Preparation and Properties of UV-curable Polymer/Nanosized Indium-doped Tin Oxide (ITO) Nanocomposite Coatings	Journal of Materials Science, 42 (15): 5959-5963 (2007)	Yin YJ, Zhou SX, Gu GX, Wu LM*	3	0.999
25	Molecular dynamics simulation of adsorption characteristics of alternative copoly(vinylidene fluoride-chlorotrifluoroethylene) at the 1,3,5-triamino-2,4,6-trinitrobenzene crystals surface	ACTA CHIMICA SINICA 64 (24): 2414-2418 DEC 28 2006	Nie FD, Liu J, Li JS, Huang H, Zhao XP, Li YS, Fan ZY	4	0.783
26	大分子植酸-聚有机硅倍半氧烷的合成及性能	高等学校化学学报, 2007, 28, 2408-2412	游波*, 邢文涛, 武利民	4	0.724
27	Preparation and Characterization of Crosslinked Liquid-Crystalline Polymer Films with a Long Spacer	MOLECULAR CRYSTALS AND LIQUID CRYSTALS 470: 83-91 2007	Jixiang Xu, Ruoyuan Yin, Yanlei Yu*, Weiru Wang, Tomiki Ikeda	4	0.478
28	Preparation and Photoresponsive Behavior of Plastic Films Coated with Azobenzene Liquid-Crystalline Polymer Layers	MOLECULAR CRYSTALS AND LIQUID CRYSTALS 470: 93-100 2007	Munenori Yamada, R. Okutsu, Jun-ichi Mamiya, Motoi Kinoshita, Yanlei Yu, Tomiki Ikeda*	4	0.478
29	一步法制备聚二甲基硅氧烷大分子偶氮引发剂及其用于嵌段共聚物的合成/SYNTHESIS OF PDMS-CONTAINING MACROAZOINITIATOR BY ONE STEP METHOD AND ITS APPLICATION IN PREPARATION OF BLOCK COPOLYMERS	ACTA POLYMERICA SINICA (5): 472-477 MAY 2007	冯利邦, 方红霞, 周树学, 顾广新, 武利民*	4	0.466
30	电子染色技术在有机-无机纳米复合微球TEM表征中的应用研究	高分子学报, 7, 648-652 (2007)	李小琴, 周娟, 乔晓光, 武利民*	4	0.466
31	PDMS-MDI-PEG多嵌段共聚物涂层表面微相分离行为研究	高分子学报, No. 2, 178-182 (2007)	方红霞, 周树学, 武利民*	4	0.466
32	反气相色谱法表征聚合物表面性质的方法比较	分析化学, 35, 1469-1474 (2007)	邹其超, 唐琴琼, 武利民*	4	0.361
33	Self-Propagating High-Temperature Reductive Synthesis of TiB <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> Composite Powders.	J of Wuhan University of Technology-Mater. Sci. Ed. 2007, 22(1): 48-51.	Yu Z. Q., Yang Z.G.*?	4	0.276
34	Facile Fabrication Method of PS/Ni Nanocomposite Spheres and Their Catalytic Property	Journal of Physical Chemistry C, 111 (32), 11829 -11835(2007)	Chen M, Zhou J, Xie L, Gu GX, Wu LM*	2	

35	Novel Method to Fabricate SiO <sub>2</sub> /Ag Composite Spheres and Their Catalytic, Surface-Enhanced Raman Scattering Properties	Journal of Physical Chemistry C, 111, 11692-11698 (2007)	Deng ZW, Chen M, Wu LM*	2	
36	Synthesis and properties of oil-soluble butyl crystal violet lactone	Frontiers of Chemistry in China - Selected Publications from Chinese Universities, Volume2, Issue 3 (2007)	Guoxin Bai, Lina Chen, Liping Wu, Mingxin Ye*		
物理电子学					
序号	论文题目	发表期刊	作者	所属分区	Impact Factor
1	p-type transparent conductor: Zn-doped CuAlS <sub>2</sub>	Appl. Phys. Lett. 2007, 90: 072109	Min-Ling Liu, Fu-Qiang Huang*, Li-Dong Chen, Yao-Ming Wang, Ying-Hua Wang, Gui-Feng Li, and Qun Zhang	2	3.977
2	Hydrogen-induced phase transitions in RNi <sub>3</sub> and RY <sub>2</sub> Ni <sub>9</sub> (R = La, Ce) compounds	JOURNAL OF POWER SOURCES 172 (1): 446-450 Sp. Iss. SI OCT 11 2007	Jing Zhang, Fang Fang, Shiyu Zheng, Jian Zhu, Guorong Chen, Dalin Sun, M. Lacroche, A. Percheron-Guégan	1	3.521
3	Cyclic voltammetry as a tool to estimate the effective pore density of an anodic aluminium oxide template, IF=3.037	NANOTECHNOLOGY 18 (21): Art. No. 215701 MAY 30 2007	Xiaoli Cui*, Qiang Zhao, Zhizhou Li, Ziyang Sun, Zhiyu Jiang	1	3.037
4	Effects of microstructure of carbon nanofibers for amperometric detection of hydrogen peroxide	ANALYTICA CHIMICA ACTA 597 (2): 238-244 AUG 10 2007	Zhizhou Li, Xiaoli Cui, Junsheng Zheng, Qingfei Wang, Yuehe Lin;	3	2.894
5	Nonvolatile Multilevel Conductance and Memory Effect in Molecule-Based Devices	IEEE ELECTRON DEVICE LETTERS 28 (7): 572-574 JUL 2007	郭鹏, 董元伟, 季欣, 吕银祥, 徐伟*	1	2.716
6	Nanostructured Carbon-Doping Anodic TiO <sub>2</sub> from TiC and its Photoelectrochemical Properties	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY 7 (9): 3140-3145 SEP 2007	Xiaoli Cui, Haijie Gu, Jun Lu, Jie Shen, Zhuangjian Zhang	2	2.194
7	Energy band alignment of an In <sub>2</sub> O <sub>3</sub> :Mo/Si heterostructure	SEMICONDUCTOR SCIENCE AND TECHNOLOGY 22 (8): 900-904 AUG 2007	Xi Zhang*, Qun Zhang, Fang Lu	2	1.586
8	Imaging of Ferroelectric Vinylidene Fluoride and Trifluoroethylene Copolymer Films by Scanning Tunneling Microscopy	Applied Surface Science, Volume 254, Issue 8, 15 February 2008, Pages 2487-2492	GuoDong Zhu*, ZhiGang Zeng, Li Zhang, XueJian Yan	2	1.436
9	方块电阻法原位表征Cu薄膜氧化反应动力学规律	物理学报 Vol. 56, No. 11, November, 6722-6726, 2007	罗宇峰, 钟澄, 张莉, 严学俭, 李劲, 蒋益明*	4	1.242
10	Topography of Thin Film Formed by Drying Silver Nanoparticle Dispersion Droplets	JAPANESE JOURNAL OF APPLIED PHYSICS PART 1-REGULAR PAPERS BRIEF COMMUNICATIONS & REVIEW PAPERS 46 (10A): 6807-6810 OCT 2007	Yanchuan Li, Chun Fu, and Jun Xu*	4	1.222
11	Study on thermal behaviors of Li/H atom in the bulk graphite by molecular dynamics method	J Mater Sci Vol. 42. P7972-7976, Sep(2007)	邓斌, 丁可, 吴志玮, 单莉英, 顾昌鑫	3	0.999
12	纳米铜薄膜氧化反应动力学规律研究/Investigation for Kinetics Law of Oxidation of a Nano-scale Copper Film	ACTA CHIMICA SINICA 65 (15): 1521-1526 AUG 14 2007	罗宇峰, 钟澄, 张莉, 严学俭, 李劲, 蒋益明*	4	0.783
13	All-fiber multipoint visar	MICROWAVE AND OPTICAL TECHNOLOGY LETTERS 49 (5): 1199-1201 MAY 2007	Hong GW, Jia B	4	0.568
14	A novel all-fiber high velocity interferometer for any reflector	MICROWAVE AND OPTICAL TECHNOLOGY LETTERS 49 (8): 2032-2035 AUG 2007	Hong GW*, Jia B, Wang X	4	0.568
15	Methyl N-(4-chlorophenyl)-N'-cyanocarbamidothioate	ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE 63: 03018-U3301 Part 6 JUN 2007	Yin-Xiang Lu*	4	0.567
16	4-nitrophenylpiperazinium chloride monohydrate	ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE 63: 03611-U4459 Part 8, AUG 2007	Lu Yin-Xiang	4	0.567

17	Visible Light Photoelectrochemical Response of Carbon-Doped TiO <sub>2</sub> Thin Films Prepared by DC Reactive Magnetron Sputtering, Acta Phys. - Chim. Sin., 2007, 23(11): 1662-1666.	ACTA PHYSICO-CHIMICA SINICA 23 (11): 1662-1666 NOV 2007	Lei Zhu, Xiaoli Cui, Jie Shen, Xiliang Yang, Zhuangjian Zhang,	4	0.561
18	C3 Symmetric Molecules with Axial Chirality and Handed Arrangement of Dipole Fields	高等学校化学研究(English Version) Volume 23, Issue 5, September 2007, Pages 628-630	徐伟*, 金兰, 周辉, 吕银祥, 蓝碧健, 邹振光	4	0.363
19	Simulation Studies of Rib Structure Effect on Discharge Characteristics of Plasma Display Panel	Plasma Science and Technology, Vol.9, No.1, Feb.2007 P80-89	丁可, 邓斌, 单莉英, 孙琦, 顾昌鑫	4	0.331
20	New approach to fabricate nanoporous gold film	CHINESE CHEMICAL LETTERS 18 (3): 365-368 MAR 2007	周辉, 金兰, 徐伟*	4	0.266
材料物理					
序号	论文题目	发表期刊	作者	所属分区	Impact Factor
1	Fabrication and electrochemical properties of three-dimensional net architectures of anatase TiO <sub>2</sub> and spinel Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> nanofibers	JOURNAL OF POWER SOURCES 164 (2): 874-879 FEB 10 2007	Hai-Wei Lu, Wei Zeng, Yue-Sheng Li, Zheng-Wen Fu*	1	3.521
2	Electrochemical reactivity of Co-Li <sub>2</sub> S nanocomposite for lithium-ion batteries	ELECTROCHIMICA ACTA 52 (9): 3130-3136 FEB 15 2007	Yongning Zhou, Changliang Wu, Hua Zhang, Xiaojing Wu, Zhengwen Fu	3	2.955
3	Location of a wideband perturbation using a fiber Fox-Smith interferometer	JOURNAL OF LIGHTWAVE TECHNOLOGY 25 (10): 3057-3061 OCT 2007	Hong GW, Jia B, Tang H	2	2.824
4	The carrier-trapping effect of dye doped in Alq	Journal of Applied Physics, 101, 054507 (2007)	G. Y. Zhong*, D. E. Kim, O. K. Kwon, Y. K. Jang, H. K. Shin, Y. S. Kwon	2	2.316
5	Enhanced optical and electrical transitions of Ni-capped LaMg <sub>2</sub> Ni alloy film upon hydrogen loading/unloading	SCRIPTA MATERIALIA 58 (1): 33-36 JAN 2008	Fang Fang, Jing Zhang, Shiyong Zheng, Guorong Chen, Yonggang Wu, Dalin Sun*	2	2.161
6	The color-tuning effect of 2,9-dimethyl-4,7-diphenyl-1,10-phenanthroline in blue-red organic light-emitting devices	Journal of Physics D-Applied Physics 40, 4442, 2007	Jian Lin, Yi-Jie Xia, Chao Tang, Kun Yin, Gao-Yu Zhong, Gang Ni, Bo Peng, Xiao-Yuan Hou, Fu-Xi Gan, and Wei Huang*	3	2.077
7	Dual-color polymer light-emitting diodes based on hybrid films of soluble poly(p-phenylenevinylene) derivatives	THIN SOLID FILMS 515 (20-21): 7930-7934 JUL 31 2007	C. Liu, M. Wang*, M. Wu, T.X. Liu, G.Y. Zhong, H.B. Yao	2	1.666
8	Hygrothermal Delaminations in Lead-Free Solder Reflow of Electronic Packages	Journal of ELECTRONIC MATERIALS, Vol. 36, No. 3, 226-231 2007	D.C.C. Lam, J. Wang	2	1.504
9	Synthesis of Silicon Nanoneedles	Journal of ELECTRONIC MATERIALS, Vol. 37, No. 2, 176-179, 2008	Y. W. CHEN, S. H. JIANG, B. X. SHAO*, W. WANG, R. C. WANG	1	1.504
10	Non Doped Organic Light Emitting Diodes with Saturated Red Emission	JOURNAL OF THE KOREAN PHYSICAL SOCIETY 50 (2): 479-483 FEB 2007	Huiying Hu, Fei Xiao*, Bingxian Shao	3	1.328
11	Electroluminescence in Si/SiO <sub>2</sub> /Si structure formed by oxygen implantation	PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE?? Volume: 204?? Issue: 12 Pages: 4272-4280	Zhonghan Shen, Changliang Wu, Qian Lu, Xin Zhang, Xiao-Jing Wu*	4	1.221
12	Isophorone derivative as red dopant for organic eletroluminescent devices	CURRENT APPLIED PHYSICS 7 (6): 697-701 SEP 2007	Huiying Fu, H Hu, Xy Hou, Fei Xiao*, Bingxian Shao	4	1.184
13	Photovoltaic characteristics of a naphthylamine derivative	CHINESE JOURNAL OF CHEMISTRY 25 (9): 1242-1245 SEP 2007	Fu HuiYing, Xiao Fei*, Shao Bingxian	4	0.712
14	高压条件下合成硅纳米线/Preparation of Silicon Nanowires under High Pressure	CHINESE JOURNAL OF INORGANIC CHEMISTRY 23 (5): 915-918 MAY 2007	陈扬文, 江素华, 邵丙铤*, 汪荣昌	4	0.583

15	脉冲激光沉积GeO <sub>2</sub> 薄膜的电化学性能/Electrochemical Properties of GeO <sub>2</sub> Films Fabricated by Pulsed Laser Deposition	CHINESE JOURNAL OF INORGANIC CHEMISTRY 23 (8): 1353-1357 AUG 2007	周永宁, 张华, 吴长亮, 吴晓京, 傅正文	4	0.583
16	NaAlH <sub>4</sub> 分解后的加氢过程研究	金属学报43 (1) (2007) 96-98	方方, 张晶, 朱健, 陈国荣, 孙大林*, Craig M Jensen	4	0.414
17	纳米贮氢材料及其发展/Progresses on Nanomaterials for Hydrogen Storage	稀有金属材料与工程, 36 (6) (2007) 1119-1123	陈俊良, 方方, 张晶, 朱健, 陈国荣, 孙大林*	4	0.251
18	Study of the Correlation between the Stability of Mg-based Hydride and the Ti-containing Agent	Journal of Physical Chemistry, C, Vol. 111 (2007) 14021-14025	Shiyong Zheng, Fang Fang, Jing Zhang, Lixian Sun, Bo He, Shiqiang Wei, Guorong Chen and Dalin Sun*	2	
19	Nature and role of Ti species in the hydrogenation of a NaH/Al mixture	JOURNAL OF PHYSICAL CHEMISTRY C 111 (8): 3476-3479 MAR 1 2007	Fang Fang, Jing Zhang, Jian Zhu, Guorong Chen, Dalin Sun*, Bo He, Zheng Wei, Shiqiang Wei	2	

### 授权专利统计

序号	发明名称	发明人	专利号	申请时间	授权时间
1	无话简语音传输装置	华中一, 贾波	03151032.9	2003.9.18	2007.10.31
2	可充锂离子电池聚合物电解质及其制备方法	邱玮丽, 杨清河, 马晓华, 付延鲍, 宗祥福	200310107849.0	2003.10.10	2007.1.17
3	分子筛纳米复合抗紫外材料、其制备方法和用途	张雷, 魏少敏, 武利民, 郭奕光	200310108974.3	2003.11.28	2007.1.31
4	一种含铝纳米络合物贮氢材料及其制备方法、应用	孙大林, 陈国荣, 徐德华	200310109080.6	2003.12.04	2007.3.14
5	含有羰胺基团的红色有机电致发光材料及其制备方法	肖斐, 付慧英*, 徐吉翔*, 詹义强*	200410025735.6	2004.07.05	2007.8.22
6	一种热敏有机无机复合粉及其制备方法	游波, 武利民, 王秀萍, 施剑秋	200410067592.5	2004.10.28	2007.1.10
7	一种多功能建筑工程涂料的制备方法	武利民, 顾广新, 游波, 周树学	200410084320.6	2004.11.18	2007.8.22
8	一种能长效稳定净化空气的涂料及其制备方法	武利民, 顾广新, 游波, 周树学	200510025661.0	2005.5.2	2007.8.22
9	基于N-芳香基咪唑的红色有机电致发光材料及其制备方法	付慧英, 肖斐, 吴欢荣	200510028627.9	2005.08.09	2007.2.28
10	三芳胺类空穴传输材料的制备方法	吕银祥, 徐伟	200510030678.5	2005.10.20	2007.10.31
11	一种烟钨金属镶嵌靶	张群, 章壮健, 李喜峰, 缪维娜, 黄丽	200520043480.6	2005.07.15	2007.6.6

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