

# 高分子化学与物理教育部重点实验室

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\*\*所列影响因子、引用次数均为2013年6月统计数据。

### (a) 类：

1. Kuang, G. C.; Ji, Y.; Jia, X. R.\*; Chen, E. Q.; Gao, M.; Yeh, J. M.; Wei, Y. "Supramolecular Self-Assembly of Dimeric Dendrons with Different Aliphatic Spacers", *Chem. Mat.* **2009**, *21*, 456-462. (SCI总引次数: 10; 他引: 7; IF=8.238)
2. Yan, Q.; Zhao, D.\* "Conjugated dimeric and trimeric perylenediimide oligomers", *Org. Lett.* **2009**, *11*, 3426-3429. (SCI总引次数: 14; 他引: 11; IF=6.142)
3. Zheng, Y. J.; Zheng, J.; Dou, L. T.; Qiao, W. Q.; Wan, X. H.\* "Synthesis and characterization of a novel kind of near-infrared electrochromic polymers containing an anthraquinone imide group and ionic moieties", *J. Mater. Chem.* **2009**, *19*, 8470-8477. (SCI总引次数: 14; 他引: 8; IF=6.101)
4. Teng, M. J.; Kuang, G. C.; Jia, X. R.\*; Gao, M.; Li, Y.; Wei, Y. "Glycine-glutamic-acid-based organogelators and their fluoride anion responsive properties", *J. Mater. Chem.* **2009**, *19*, 5648-5654. (SCI总引次数: 26; 他引: 23; IF=6.101)
5. Lin, W. R.; Zhang, J.; Wan, X. H.\*; Liang, D. H.\*; Zhou, Q. F. "Solvent-Induced Association and Micellization of Rod-Coil Diblock Copolymer" *Macromolecules* **2009**, *42*, 4090-4098. (SCI总引次数: 10; 他引: 8; IF=5.521)
6. Cui, J. X.; Lu, X. C.; Liu, A. H.; Wan, X. H.\*; Zhou, Q. F. "Long-Range Chirality Transfer in Free Radical Polymerization of Bulky Vinyl Monomers Containing Laterally Attached p-Terphenyl Groups", *Macromolecules* **2009**, *42*, 7678-7688. (SCI总引次数: 16; 他引: 12; IF=5.521)
7. Xu, Y. D.; Yang, Q.; Shen, Z. H.\*; Chen, X. F.; Fan, X. H.\*; Zhou, Q. F.\* "Effects of Mesogenic Shape and Flexibility on the Phase Structures of Mesogen-Jacketed Liquid Crystalline Polymers with Bent Side Groups Containing 1,3,4-Oxadiazole", *Macromolecules* **2009**, *42*, 2542-2550. (SCI总引次数: 24; 他引: 11; IF=5.521)
8. Gao, L. C.; Yao, J. H.; Shen, Z.\*; Wu, Y. X.\*; Chen, X. F.; Fan, X. H.\*; Zhou, Q. F.\* "Self-Assembly of Rod-Coil-Rod Triblock Copolymer and Homopolymer Blends", *Macromolecules* **2009**, *42*, 1047-1050. (SCI总引次数: 11; 他引: 8; IF=5.521)
9. Yang, Q.; Jin, H.; Xu, Y. D.; Wang, P.; Liang, X. C.; Shen, Z. H.\*; Chen, X. F.; Zou, D. C.; Fan, X. H.\*; Zhou, Q. F.\* "Synthesis, Photophysics, and Electroluminescence of Mesogen-Jacketed 2D Conjugated Copolymers Based on Fluorene-Thiophene-Oxadiazole Derivative", *Macromolecules* **2009**, *42*, 1037-1046. (SCI总引次数: 19; 他引: 13; IF=5.521)
10. Dong, Y. Q.; Tong, Y. Y.; Dong, B. T.; Du, F. S.; Li, Z. C.\* "Preparation of Tadpole-Shaped Amphiphilic Cyclic PS-b-linear PEO via ATRP and Click Chemistry", *Macromolecules* **2009**, *42*, 2940-2948. (SCI总引次数: 52; 他引: 52; IF=5.521)
11. Huang, X. N.; Du, F. S.;\* Cheng, J.; Liang, D. H.;\* Ji, S. P.; Lin, S. S.; Li, Z. C.\* "Acid-Sensitive Polymeric Micelles Based on Thermoresponsive Block Copolymers with Pendent Cyclic Orthoester Groups", *Macromolecules* **2009**, *42*, 783-789. (SCI总引次数: 40; 他引: 31; IF=5.521)

12. Ke, F. Y.; Mo, X. L.; Yang, R. M.; Wang, Y. M.\*; Liang, D. H.\* “Association of Block Copolymer in Nonselective Solvent”, *Macromolecules* **2009**, *42*, 5339-5344. (SCI总引次数: 14; 他引: 9; IF=5.521)
13. Gao, M.; Jia, X. R.\*; Kuang, G. C.; Li, Y.; Liang, D. H.\*; Wei, Y. “Thermo- and pH-Responsive Dendronized Copolymers of Styrene and Maleic Anhydride Pendant with Poly(amidoamine) Dendrons as Side Groups”, *Macromolecules* **2009**, *42*, 4273-4281. (SCI总引次数: 26; 他引: 22; IF=5.521)
14. Liu, Y. X.; Li, J. F.; Zhu, D. S.; Chen, E. Q.\*; Zhang, H. D.\* “Direct Observation and Modeling of Transient Nucleation in Isothermal Thickening of Polymer Lamellar Crystal Monolayers”, *Macromolecules* **2009**, *42*, 2886-2890. (SCI总引次数: 11; 他引: 7; IF=5.521)
15. Yan, J. J.; Tang, R. P.; Zhang, B.; Zhu, X. Q.; Xi, F.; Li, Z. C.; Chen, E. Q.\* “Gelation Originated from Growth of Wormlike ‘Living Polymer’ of Symmetrically Dendronized Large-Ring Crown Ether in Dilute Solutions”, *Macromolecules* **2009**, *42*, 8451-8459. (SCI总引次数: 10; 他引: 9; IF=5.521)
16. Xie, H. L.; Liu, Y. X.; Zhong, G. Q.; Zhang, H. L.\*; Chen, E. Q.\*; Zhou, Q. F. “Design, Synthesis, and Multiple Hierarchical Ordering of a Novel Side-Chain Liquid Crystalline-Rod Diblock Copolymer”, *Macromolecules* **2009**, *42*, 8774-8780. (SCI总引次数: 5; 他引: 2; IF=5.521)
17. Chu, Z. Z.; Wang, D.; Zhang, C.; Fan, X.; Tang, Y. W.; Chen, L.; Zou, D. C.\* “Synthesis of Dendritic Oligo-Spiro (fluorene-9,9'-xanthene) Derivatives with Carbazole and Fluorene Pendants and their Thermal, Optical, and Electroluminescent Properties”, *Macromol. Rapid Comm.* **2009**, *30*, 1745-1750. (SCI总引次数: 9; 他引: 7; IF=4.929)
18. Chen, L.; Tang, Y.; Fan, X.; Zhang, C.; Chu, Z. Z.; Wang, D.; Zou, D. C.\* “Improvement of the efficiency of CuPc/C60-based photovoltaic cells using a multistep structure”, *Org. Electron.* **2009**, *10*, 724-728. (SCI总引次数: 14; 他引: 14; IF=3.836)
19. Zhi, J. G.; Guan, Y.; Cui, J. X.; Liu, A. H.; Zhu, Z. G.; Wan, X. H.\*; Zhou, Q. F. “Synthesis and Characterization of Optically Active Helical Vinyl Polymers via Free Radical Polymerization”, *J. Polym. Sci. Part A. Polym. Chem.* **2009**, *47*, 2408-2421. (SCI总引次数: 16; 他引: 14; IF=3.543)
20. Wang, P.; Jin, H.; Yang, Q.; Liu, W. L.; Shen, Z. H.; Chen, X. F.; Fan, X. H.\*; Zou, D. C.\*; Zhou, Q. F.\* “Synthesis, Characterization, and Electroluminescence of Novel Copolyfluorenes and Their Applications in White Light Emission”, *J. Polym. Sci. Part A. Polym. Chem.* **2009**, *47*, 4555-4565. (SCI总引次数: 7; 他引: 4; IF=3.543)
21. Chen, S.; Zhang, L. Y.; Gao, L. C.; Chen, X. F.; Fan, X. H.\*; Shen, Z.\*; Zhou, Q. F\*. “Influence of Alkoxy Tail Length and Unbalanced Mesogenic Core on Phase Behavior of Mesogen-Jacketed Liquid Crystalline Polymers”, *J. Polym. Sci. Part A. Polym. Chem.* **2009**, *47*, 505-514. (SCI总引次数: 11; 他引: 4; IF=3.543)
22. Gao, L. C.; Fan, X. H.\*; Shen, Z. H.\*; Chen, X.; Zhou, Q. F\* “Jacketed Polymers: Controlled Synthesis of Mesogen-Jacketed Polymers and Block Copolymers”, *J. Polym. Sci. Part A. Polym. Chem.* **2009**, *47*, 319-330. (SCI总引次数: 9; 他引: 4; IF=3.543)
23. Tong, Y. Y.; Wang, R.; Xu, N.; Du, F. S.; Li, Z. C.\* “Synthesis of Well-Defined Azide-Terminated Poly(vinyl alcohol) and Their Subsequent Modification via Click Chemistry”, *J. Polym. Sci. Part A. Polym. Chem.* **2009**, *47*, 4494-4504. (SCI 总引次数: 19; 他引: 18; IF=3.543)
24. Xu, N.; Wang R.; Du, F. S.; Li., Z. C.\* “Synthesis of amphiphilic biodegradable glycopolymers based on poly( $\epsilon$ -caprolactone) by ring-opening polymerization and click chemistry”, *J. Polym. Sci. Part A. Polym. Chem.* **2009**, *47*, 3583-3594. (SCI 总引次数: 20; 他引: 18; IF=3.543)
25. Tong, Y. Y.; Dong, Y. Q.; Du, F. S.; Li, Z. C.\* “Block copolymers of poly(ethylene oxide) and poly(vinyl alcohol) synthesized by the RAFT methodology”, *J. Polym. Sci. Part A. Polym. Chem.* **2009**, *47*, 1901-1910. (SCI 总引次数: 17; 他引: 13; IF=3.543)
26. Guan, Y.; Chen, X. F.; Shen, Z. H.; Wan, X. H.\*; Zhou, Q. F. “Structure-property relationship of thermotropic liquid-crystalline vinyl polymers containing no traditional mesogen”, *Polymer* **2009**, *50*, 936-944. (SCI总引次数: 13; 他引: 6; IF=3.379)
27. Tang, H. Y.; Li, W. W.; Fan, X. H.\*; Chen, X. F.; Shen, Z. H.\*; Zhou, Q. F.\* “Synthesis, Preparation and Properties of Novel High-Performance Allyl-Maleimide Resins”, *Polymer* **2009**, *50*, 1414-1422. (SCI总引次数: 9; 他引: 9; IF=3.379)
28. Dong, Y. Q.; Dong, B. T.; Du, F. S.; Meng J. Q.; Li, Z. C.\* “An all ATRP route to PMMA-PEO-PS and PMAA-PEO-PS miktoarm ABC star terpolymer”, *Polymer* **2009**, *50*, 125-132. (SCI 总引次数: 6; 他引: 5; IF=3.379)
29. Guan, X. L.; Zhang, L. Y.; Zhang, Z. L.; Shen, Z. H.\*; Chen, X. F.; Fan, X. H.\*; Zhou, Q. F.\* “Synthesis and Properties of Novel Liquid Crystalline Materials with Super High Birefringence: Styrene Monomers Bearing Diacetylenes, Naphthyl, and Nitrogen-Containing Groups”, *Tetrahedron* **2009**, *65*, 3728-3732. (SCI 总引次数: 8; 他引: 5; IF=2.803)

30. Kuang, G. C.; Ji, Y.; Jia, X. R.\*; Li, Y.; Chen, E. Q.; Zhang, Z. X.; Wei, Y. "Photoresponsive organogels: an amino acid-based dendron functionalized with p-nitrocinnamate", *Tetrahedron* **2009**, *65*, 3496-3501. (SCI 总引次数: 16; 他引: 16; IF: 2.803)
31. Liu, K. P.; Yu, Z. Q.; Liu, J. H.; Chen, E. Q.\* "Molecular Shapes of Monosubstituted Polyacetylenes in Their Liquid Crystalline Phases", *Macromol. Chem. Phys.* **2009**, *210*, 708-716. (SCI 总引次数: 13; 他引: 7; IF=2.386)
32. Qiao, W. Q.; Wang, F. Z.; Zou, D. C.; Wan, X. H.\* "Synthesis and voltage-controlled multicolor electroluminescent property of copolyfluorenes containing a pendent anthraquinone-2,3-dicarboxylic imide", *Synthetic Metals* **2009**, *159*, 2556-2563. (SCI总引次数: 1; 他引: 1; IF=2.109)
33. Ke, F. Y.; Mo, X. L.; Liang, D. H.\* "Effect of Overlap Concentration and Persistence length on DNA separation in polymer solution by electrophoresis", *Chinese J. Polym. Sci.* **2009**, *27*, 601-610. (SCI总引次数: 0; 他引: 0; IF=1.270)
34. 崔家喜; 曹洪庆; 刘安华; 宛新华\* “旋光性聚{(+)-甲基丙烯酸-2,5-二[4'-(S)-2-甲基丁氧基]苯基}苯酯}的合成与表征”, *高分子学报* **2009**, *(10)*, 1050-1055. (SCI总引次数: 4; 他引: 4; IF= 0.962)
35. 黄满楠; 杜福胜\*; 杨俊; 李子臣 “含环状原酸酯侧基的两亲性嵌段共聚物及其酸敏感胶束状聚集体”, *高分子学报* **2009**, *(1)*, 88-92. (SCI总引次数: 2; 他引: 1; IF=0.962)

### (b) 类:

36. Wang, J.-L.; Tang, Z.-M.; Xiao, Q.; Ma, Y. G.\*; Pei, J.\* "Star-Shaped D- $\pi$ -A Conjugated Molecules: Synthesis and Broad Absorption Bands", *Org. Lett.* **2009**, *11*(4), 863-866. (SCI 总引次数: 18; 他引: 15; IF=6.142)
37. Wang, J. Y.; Han, J. M.; Yan, J.; Ma, Y. G.\*; Pei, J.\* "A Mechanically Interlocked [3]Rotaxane as a Light-Harvesting Antenna: Synthesis, Characterization, and Intramolecular Energy Transfer", *Chem. Euro. J.* **2009**, *15*(14), 3585-3594. (SCI 总引次数: 24; 他引: 21; IF=5.831)
38. Tenneti, K. K.; Chen, X. F.\*; Li, C. Y.\*; Shen, Z. H.; Wan, X. H.; Fan, X. H.; Zhou, Q. F.\*; Rong, L. X.; Hsiao, B. S. "Influence of LC Content on the Phase Structures of Side-Chain Liquid Crystalline Block Copolymers with Bent-Core Mesogens", *Macromolecules* **2009**, *42*, 3510-3517. (SCI 总引次数: 6; 他引: 5; IF=5.521)
39. Chen, H. B.; Zhou, Y.; Yin, J.; Yan, J.; Ma, Y. G.\*; Wang, L.; Cao, Y.; Wang, J.\*; Pei, J.\* "Single Organic Microtwist with Tunable Pitch", *Langmuir* **2009**, *25*(10), 5459-5462. (SCI 总引次数: 14; 他引: 11; IF=4.187)
40. Yu, T.; Zhou, Y.; Liu, K. P.; Zhao, Y.; Chen, E. Q.; Wang, F. S.\* Wang, D. J.\* "Improving Thermal Stability of Biodegradable Aliphatic Polycarbonate by Metal Ion Coordination", *Polymer Degradation Stability* **2009**, *94*, 253-258. (SCI 总引次数: 11; 他引: 8; IF=2.770)
41. Ge, G. P.; Yu, X. H.; Guo, H. Q.\*; Wang, F. Z.; Zou, D. C.\* "Polymer-based blue electrophosphorescent light-emitting diodes based on a new iridium(III) diazine complex", *Synthetic Met.* **2009**, *159*, 1178-1182. (SCI总引次数: 6; 他引: 6; IF=2.109)
42. Ge, G. P.; Zhang, G. L.; Guo, H. Q.\*; Chuai, Y. T.; Zou, D. C.\* "Yellow organic light-emitting diodes based on phosphorescent iridium(III) pyrazine complexes: Fine tuning of emission color", *Inorg. Chim. Acta* **2009**, *362*, 2231-2236. (SCI总引次数: 8; 他引: 8; IF=1.687)

### (c) 类:

43. Wang, J. Y.; Yan, J.; Ding, L.; Ma, Y. G.; Pei, J.\* "One-Dimensional Microwires Formed by the Co-Assembly of Complementary Aromatic Donors and Acceptors", *Adv. Funct. Mater.* **2009**, *19*, 1746-1752. (SCI 总引次数: 23; 他引: 15; IF=9.765)
44. Yue, R. J.; Niu, Y. H.; Wang, Z. G.\*; Douglas, J. F.; Zhu, X. Q.; Chen, E. Q. "Suppression of Crystallization in a Plastic Crystal Electrolyte (SN/LiClO<sub>4</sub>) by a Polymeric Additive (Polyethylene oxide) for Battery Applications", *Polymer* **2009**, *50*, 1288-1296. (SCI 总引次数: 9; 他引:8; IF=3.379)