



中国科学院长春应用化学研究所

CHANG CHUN INSTITUTE OF APPLIED CHEMISTRY CHINESE ACADEMY OF SCIENCES



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姓名: 李季 年龄: 47岁 1980年-1984年 天津大学 应用化学系毕业 获理学学士 1985年-1989年 长春应化所 被聘为实研员 1989年-1996年 长春应化所 被聘为助研 1996年-2002年 长春应化所 被聘为副研 2002年-至今 长春应化所 被聘为研究员

研究领域:

主要研究领域为导电高分子应用研究

承担科研项目情况:

中国高技术发展计划“863”项目

代表论著:

1. “Conducting Polyaniline confined in semi-interpenetrating Networks”, *Macromolecular Rapid Communications*, 2002, 23, 118-121.
2. “Morphological Study on Water Borne Conducting Polyaniline-Poly(ethylene oxide) Blends”, *Journal of Polymer Science, Part B: Polymer Physics*, 2002, 40, 605-612.
3. “Synthesis of phenyl/amino-capped tetraaniline by chemical and electrochemical methods”, *Chemical Journal of Chinese Universities-Chinese*, Vol.23, No.3, 496-499, 2002.
4. “Conductive hybrids from water-borne conductive polyaniline and (3-glycidoxypropyl) trimethoxysilane”, *Macromolecules*, 36(2003)5760-5764. (f = 3.898)
5. “Solvent-free polyaniline coating for corrosion prevention of metal”, *ACS Symposium Series vol 843, Electroactive Polymers for Corrosion Control*, 2003, 254-267.
6. “Metal-containing molecular wires and their electron transportation properties”, *Synthetic Metals*, 2003, 135, 239-240.
7. “Synthesis and Characterization of Ferrocene-terminated Ruthenium Phenylacetylide Complexes with Alligator Clips”, *Chinese Chemical Letters*, 2003, 14, 35-38.
8. “Mechanism and life study on polyaniline anti-corrosion coating”, *Synth. Met.*, 135-136(2003), 237-238.
9. “Confining conducting polyaniline in a stable inorganic network”, *Chinese Journal of Polymer Science*, Vol. 21, No.6, 603-608, 2003.
10. “Facile and Rapid Solid Phase synthesis of Monodisperse oligo(1,4-phenyleneethynylene)s”, *Chin. Chem. Lett.*, 2005, 16, 719-722.
11. “Water-borne conductive polyaniline doped by acidic phosphate ester containing polysilsesquioxane precursor”, *Synth. Met.*, 2005, 148, 127-132.
12. “A facile route to rapid synthesis of soluble monodisperse oligo(1,4-phenyleneethynylene)s”, *Chem. Res. Chin. U.*, 2005, 21(4), 505-507.
13. “Synthesis of monodisperse oligo(1,4-phenyleneethynylene)-alt-(2,5-thiopheneethynylene)s”, *Synth. Commun.*, 2005, 35, 115-119.
14. “Crosslinkable poly(propylene carbonate): high-yield synthesis and performance improvement”, *J. of Polym. Sci., Part A, Polym. Chem.*, 2006, 44, 5329-5336. (f = 3.405)
15. “Double propagation based on diepoxide, a facile route to high molecular weight poly(propylene carbonate)”, *Polymer*, 2006, 47, 7368-7373. (f = 2.433)
16. “A rapid solid-phase synthesis to soluble oligothiophene molecular wires”, *Chin. Chem. Lett.*, 2006, 17, 437-440.
17. “Rapid solution and solid phase synthesis of monodisperse oligo[(1,4-phenyleneethynylene)-alt-(2,5-thiopheneethynylene)]s”, *Tetrahedron*, 2006, 62, 2576-2582, (f = 2.643)
18. “Electrostatic Interaction hybrids from water-borne conductive polyaniline and inorganic precursor containing carboxyl group”, *Chin. J. Polym. Sci.*, 2007, vol. 2, 181-186.
19. “Water resistant conducting hybrids from electrostatic interaction”, *J. Polym. Sci., Part A, Polym. Chem.*, 2007, 45, 1424-1431 (f = 3.405)
20. “Preparation and electrical-magnetic properties of polyaniline doped with ionic ferrosenesulfonic acid”, *Synthetic Metals*, 2007, 157, 176-181.
21. “Magnetic behavior of polyaniline doped with oxidized ferrocenesulfonic acid”, *Synthetic Metals*, 2007, 157, 182-185.
22. “Long term anticorrosion behavior of polyaniline on mild steel”, *Corrosion Science*, 2007, 49, 3052-3063 (f = 1.885)
23. “Polyaniline for corrosion prevention of mild steel coupled with copper”, *Electrochimica Acta*, 52 (17): 5392-5399, 2007 (f = 2.955)
24. “Extending

electrochemical activity of polyaniline to alkaline media via electrostatic interaction and sol-gel route”, *Electrochemistry Communications* 9 (5): 1175-1179, 2007 (f = 3.483)

26. “Stable Aqueous Dispersion of Conducting Polyaniline with High Electrical Conductivity”, *Macromolecules*, 2007, 40, 8132-8135. (f = 4.277)

27. “Polyaniline as an emerging choice for metal anti-corrosion”, *Advances in Engineering Science, Secton.A(1)*, 2007, P45-62.

28. “Conductive hybrid film from polyaniline and polyurethane silica”, *Polymer* 48 (2007) 4368-4374 (f = 2.773)



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