

## Publications o in 2014

| No. | Title   | Author   | Journal, Volume,<br>Page   |
|-----|---|----------|--|
| 1.  | Alkylphenyl Substituted Naphthodithiophene: A New Two-Dimensional Conjugated Building Unit for Semiconducting Materials   | 史少伟      | Macromolecular Rapid Commun., 2014,35(21):1886-1889                        |
| 2.  | Synthesis and Characterization of Angular-shaped Naphtho-[1,2-b;5,6-b']difuran-Diketopyrrolopyrrole-Containing Copolymers for High-Performance Organic Field-Effect Transistors       | 史少伟      | Macromolecules, 2014,47:616-625  |
| 3.  | High-Performance Field-Effect Transistors based on Furan-Containing Diketopyrrolopyrrole Copolymer under a Mild Annealing Temperature   | 陈华杰      | Journal of Polymer Science, Part A: Polymer Chemistry, 2014, 52, 1970–1977 |
| 4.  | Copolymers of benzo[1,2-b:4,5-b']dithiophene and bithiazole for high-performance thin film phototransistors   | 刘瑶       | J. Mater. Chem. C, 2014, 2(44), 9505-9511                                  |
| 5.  | Effects of Shortened Alkyl Chains on Solution-processable Small Molecules with Oxo-Alkylated Nitrile End-Capped Acceptors for High-Performanced Organic Solar Cells                   | Dan Deng | Adv. Energy Mater., 2014, 4(17), 1400538                                   |
| 6.  | New Conjugated Molecules with Two and Three Dithienyldiketopyrrolopyrrole (DPP) Moieties Substituted at meta Positions of Benzene toward p- and n-Type Organic Photovoltaic Materials | 虞辰敏      | Chemistry – An Asian Journal, 2014, 9(6), 1570–1578,                       |
| 7.  | New dithienyl-diketopyrrolopyrrole-based conjugated molecules entailing electron withdrawing moieties for organic ambipolar semiconductors and photovoltaic materials                 | 虞辰敏      | Journal of Materials Chemistry C, 2014, 2, 10101-10109                     |
| 8.  | Alternating Conjugated Electron Donor–Acceptor Polymers Entailing Pechmann Dye Framework as the Electron Acceptor Moieties for High Performance Organic Semiconductors                | 蔡政旭      | Macromolecules, 2014,47,2899-2906  |

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|     | with Tunable Characteristics  |               |  |
| 9.  | $\pi$ -Extended Conjugated Polymers Entailing Pechmann Dye Moieties for Solution-Processed Ambipolar Organic Semiconductors   | 蔡政旭           | Chinese Journal of Chemistry, 2014,32,788-796              |
| 10. | Characterization of tetragonal distortion in athick Al <sub>0.2</sub> Ga <sub>0.8</sub> N epilayer with an ALN interlayer by Rutherford backscattering/channeling                         | Wang Huan     | Chin.Phys.B, 2014, 23(9), 096801-096804                    |
| 11. | Chemical Composition DependentElasticStraininAlGa <sub>N</sub> Epilayers  | Wang Huan     | Chin.Phys.Lett., 2014, 31 (10), 106101-106104              |
| 12. | Tunning of the tetragonal distortion in AlInGa <sub>N</sub> thin films by different contents of Al and In   | Wang Huan     | Superlattices and Microstructures, 2014, 73, 232-238       |
| 13. | Volatilize-Controlled Oriented Growth of the Single-Crystal Layer for organic field-effect transistors  | 赵昊岩           | Langmuir, 2014,30,12082–12088                              |
| 14. | Enhanced mobility of solution-processed polycrystalline zinc tin oxide thin-film transistors via direct incorporation of water into precursor solution                                    | 黄根茂           | Applied Physics Letters, 2014,105,122105                   |
| 15. | High-Mobility Solution-Processed Tin Oxide Thin-Film Transistors with High- $\kappa$ Alumina Dielectric Working in Enhancement Mode   | 黄根茂           | ACS Applied Materials & Interfaces, 2014, 6(23), 20786-94. |
| 16. | Perylene-Diimide Based Non-Fullerene Solar Cells with 4.34% Efficiency through Engineering Surface D/A Compositions   | Zhenhuan Lu   | Chem. Mater., 2014, 26 (9), 2907-2914                      |
| 17. | Additive-Assisted Control over Phase-Separated Nanostructures by Manipulating Alkylthienyl Position at Donor Backbone for Solution-Processed Non-Fullerene All-Small-Molecule Solar Cells | Jianhua Huang | ACS App. Mater. & Interface, 2014, 6 (6), 3853-3862        |

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| 18. | Photocurrent Enhancement in Diketopyrrolopyrrole Solar Cells by Manipulating Dipolar Anchoring-Terminals on Alkyl-Chain Spacer  | Ailing Tang         | Chem. Asian. J., 2014, 9 (3), 883-892                      |
| 19. | Cooperatively Tuning Phase Size and Absorption of Near IR Photons in P3HT:Perylene Diimide Solar Cells by Bay-Modifications on the Acceptor   | Xinliang Zhang      | J. Phys. Chem. C, 2014, 118 (42), 24212-24220              |
| 20. | Effects of V/III ratio on a-plane GaN epilayers with an InGaN interlayer  | 王建霞                 | Chinese Physics B, 2014, 23(2), 026801                     |
| 21. | Tetragonal-tetragonal-monoclinic-rhombohedral transition: strain relaxation of heavily compressed BiFeO <sub>3</sub> epitaxial thin films   | Z. Fu               | Appl. Phys. Lett., 2014, 104, 052908                       |
| 22. | Nucleation mechanism of GaN growth on wet etched pattern sapphire substrates  | Yongjian Sun        | CrystEngComm., 2014 年 16 卷 5458 页                          |
| 23. | Structure Dependence of Magnetic Properties for Annealed GaMnN Films Grown by MOCVD   | JIANG Xian-Zhe(姜显哲) | Chinese Physics Letter, 2014 年 31 卷第 6 期 067501 页          |
| 24. | 单一取向 Cu <sub>2</sub> O 纳米棒的一种工业制备技术   | 原宏宇                 | 材料科学与工程学报, 2014, 32(3), 339-343                            |
| 25. | Preparation of Long-range Ordered Nanostructures in Semicrystalline Diblock Copolymer Thin Films Using Micromolding   | Peng Zhang          | Chinese Journal of Polymer Science, 2014, 32(9), 1188-1198 |
| 26. | Contamination-resistant silica antireflective coating with closed ordered mesopores   | 孙菁华                 | Physical Chemistry Chemical Physics, 2014, 16, 16684-16693 |
| 27. | Stimulated emission in GaN-based laser diodes far below the threshold region  | Li ding             | Optica Express, 2014, 22(3), 2536                          |
| 28. | Three-dimensional strain state and spacer thickness-dependent properties of epitaxial Pr <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> /La <sub>0.5</sub> Ca <sub>0.5</sub> MnO <sub>3</sub> /Pr <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> trilayer structure | Haiou Wang          | Journal of Applied Physics, 2014, 115, 233911              |

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| 29. | Pressure-Induced Valence Change and Semiconductor–Metal Transition in $\text{PbCrO}_3$   | 吴敏         | The Journal of Physical Chemistry C, 2014, 118, 23274–23278     |
| 30. | Single-site nickel-grafted anatase $\text{TiO}_2$ for hydrogen production: Toward understanding the nature of visible-light photocatalysis                                       | Lizhou Fan | Journal of Catalysis, 2014, 320, 147-159                        |
| 31. | Structural investigations in helium charged titanium films using grazing incidence XRD and EXAFS spectroscopy  | 万初斌        | Journal of Nuclear Materials, 2014, 444;142–146                 |
| 32. | Synchrotron EXAFS studies of Ti-doped $\text{Mg}_2\text{Ni}$ alloy on the cycling behavior   | 王宇婷        | International Journal of Hydrogen Energy, 2014, 39, 13824-13831 |
| 33. | Effect of Cr substitution by Ni on the cycling stability of $\text{Mg}_2\text{Ni}$ alloy using EXAFS   | 王宇婷        | International Journal of Hydrogen Energy, 2014, 39; 14858-14867 |
| 34. | The role of electronic interaction in the use of Ag and $\text{Mn}_3\text{O}_4$ hybrid nanocrystals covalently coupled with carbon as advanced oxygen reduction electrocatalysts | 刘景军        | Journal of Materials Chemistry A, 2014, 2, 17477-17488          |
| 35. | A unified intermediate and mechanism for soot combustion on potassium supported oxides   | 李倩         | Scientific Reports, 2014, 4: 4725                               |
| 36. | Gradient $\text{FeO}_x(\text{PO}_4)_y$ Layer on Hematite Photoanodes: Novel Structure for Efficient Light Driven Water Oxidation   | 章宇超        | ACS Appl. Mater. Interfaces, 2014, 6 (15), 12844–12851          |
| 37. | Introduction of Bifunctional Groups into Mesoporous Silica for Enhancing Uptake of Thorium(IV) from Aqueous Solution   | 袁立永        | ACS Applied Materials & Interfaces, 2014, 6, 4786–4796          |
| 38. | Interactions between Th(IV) and graphene oxide: experimental and density functional theoretical investigations   | 白志强        | RSC Advances, 2014, 4, 3340–3347                                |

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| 39. | A study on inorganic phase-change resist $\text{Ge}_2\text{Sb}_2(1-x)\text{Bi}_2x\text{Te}_5$ and its mechanism  | 李建政           | Physical Chemistry<br>Chemical Physics, 2014,<br>16, 22281--22286   |
| 40. | Effects of humic acid on copper adsorption onto few-layer reduced graphene oxide and few-layer graphene oxide  | Shuang Yang   | Carbon, 2014,75,227-235   |
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| 42. | Enhancement of thermoelectric performance in Cd-doped $\text{Ca}_3\text{Co}_4\text{O}_9$ via spin entropy, defect chemistry and phonon scattering  | Sajid Butt/徐伟 | Journal of Materials<br>Chemistry A, 2014,2,<br>19479-19487         |
| 43. | Topological engineering of glass for modulating chemical state of dopants  | 周时凤           | Advanced Materials,<br>2014, 26(47), 7966–7972,                     |
| 44. | Domain-confined multiple collision enhanced catalytic soot combustion over a $\text{Fe}_2\text{O}_3/\text{TiO}_2$ -nanotube array catalyst prepared by light-assisted cyclic magnetic adsorption | 于一夫           | ACS Catalysis, 2014, 4,<br>934-941                                  |
| 45. | A series of copper-free ternary oxide catalysts $\text{ZnAlCex}$ used for hydrogen production via dimethyl ether steam reforming   | 张利杰           | Journal of Power Sources,<br>2014, 268, 331-341.                    |
| 46. | Effects of synthesis routes on the states and catalytic performance of manganese oxides used for diesel soot combustion  | 代方方           | Catalysis Letters, 2014,<br>144,1210-1218                           |
| 47. | Enhanced soot combustion over partially substituted hydrothermalite-derived mixed oxide catalysts $\text{CoMgAlLaO}$   | 代方方           | Journal of Molecular<br>Catalysis A: Chemistry,<br>2014, 393, 68-74 |
| 48. | $\text{YCeZrO}$ ternary oxide solid solution supported nonplatinic lean-burn $\text{NO}_x$ trap catalysts using $\text{LaCoO}_3$ perovskite as active phase                                      | 尤瑞            | Journal of Physical<br>Chemistry C, 2014, 118,<br>25403-25420       |
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| 50. | Stable isolated metal atoms as active sites for photocatalytic hydrogen evolution  | 邢军                   | Chem. Eur. J., 2014,20: 2138-2144                                |
| 51. | Effects of Co and Ni co-doping on the structure and reactivity of hexagonal birnessite   | Hui Yin              | Chemical Geology, 2014,381, 10–20                                |
| 52. | Effects of Fe dopants and residual carbonates on the catalytic activities of the perovskite-type $\text{La}_{0.7}\text{Sr}_{0.3}\text{Co}_{1-x}\text{Fe}_x\text{O}_3$ $\text{NO}_x$ storage catalyst | 马爱静                  | Applied Catalysis B, 2014,146, 24-34                             |
| 53. | Americium(III) Capture Using Phosphonic Acid-Functionalized Silicas with Different Mesoporous Morphologies: Adsorption Behavior Study and Mechanism Investigation by EXAFS/XPS                       | Wen Zhang            | Environmental Science & Technology, 2014,48(12),6874–6881        |
| 54. | Species-specific toxicity of ceria nanoparticles to <i>Lactuca</i> plants  | Peng Zhang           | Nanotoxicology, 2014<br>DOI:10.3109/17435390.2013.855829         |
| 55. | Effect of Cerium Oxide Nanoparticles on Asparagus Lettuce Cultured in an Agar Medium   | Di Cui/Peng Zhang    | Environ. Sci.: Nano., 2014,1, 459-465                            |
| 56. | Origin of the Different Phytotoxicity and Biotransformation of Cerium and Lanthanum Oxide Nanoparticles in Cucumber  | Yuhui Ma/ Peng Zhang | Nanotoxicology, 2014<br>doi:10.3109/17435390.2014.921344         |
| 57. | Comparative Pulmonary Toxicity of Two Ceria Nanoparticles with the Same Primary Size   | Lu Peng              | International Journal of Molecular Sciences, 2014, 15, 6072-6085 |
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| 60. | Oxygen Vacancies Effect on Photoluminescence Properties of Self-Activated Yttrium Tungstate   | 丁帮福   | Journal of Physical Chemistry C, 2014, 118 (44), 25633–25642 |
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| 62. | $\epsilon$ -Iron carbide as a low-temperature Fischer–Tropsch synthesis catalyst  | Ke Xu | Nature Commun., 2014, 5, 5783                                |
| 63. | Half-unit-cell $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> semiconductor nanosheets with intrinsic and robust ferromagnetism   | 程位任   | J. Am. Chem. Soc., 2014, 136, 10393                          |
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| 92. | Magnetic properties and local structure of the binary elements codoped Bi <sub>1-x</sub> Lax Fe <sub>0.95</sub> Mn <sub>0.05</sub> O <sub>3</sub>                     | Yongtao Li      | Journal of Alloys and Compounds, 2014, 592, 19-23    |
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| 94.  | Room-Temperature Multiferroic and Local Structures of the Mn-Doped and(Pb,Mn)-Codoped BiFeO <sub>3</sub>   | Yongtao Li      | J.supercond NOV Magn., 2014, 27:575-579                  |
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| 97.  | Data analysis method to achieve sub-10pm spatial resolution using extended X-ray absorption fine-structure spectroscopy  | 杜永华             | J.synchrotron rad., 2014, 21, 756-61                     |
| 98.  | Extraction of trivalent lanthanides with purified Cyanex 302: Determination of distribution coefficients and structural characterization of extracted species  | 何喜红             | Separation and Purification Technology, 2014,132:317-322 |
| 99.  | Characterization of the extracted complexes of trivalent lanthanides with purified cyanex 301 in comparison with trivalent actinide complexes  | 何喜红             | Dalton Transactions, 2014,43:17352-17357                 |
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| 111. | Pressure-induced phase transition of lead phosphate Pb <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> : X-ray diffraction and XANES  | Qin Fei        | Phase Transitions: A Multinational Journal, 2014, 87 (12), 1255-1264 |
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| 116. | Spectroscopic study and electronic structure of prototypical iron porphyrins and their [small mu ]-oxo-dimer derivatives with different functional configurations | 徐伟        | RSC Advances, 2014, 4, 46399-46406   |
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