

## 杜意恩

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### 教育经历:

1999/09—2003/07, 廊坊师范学院, 化学系, 学士  
2008/09—2011/07, 辽宁大学, 化学学院, 硕士(导师: 韩正波教授)  
2011/09—2015/01, 北京师范大学, 化学学院, 博士(导师: 杨晓晶教授)  
2012/10—2013/10, 日本国立香川大学, 工学部, 联合培养博士生(导师: 冯旗教授)

### 工作经历:

2003/07—2008/08, 河北省成安县第一中学, 教师  
2015/05—2017/12, 晋中学院, 化学化工学院, 讲师  
2018/01—至今, 晋中学院, 化学化工学院, 副教授

### 讲授课程:

无机化学、无机及分析化学、有机化学、无机化学实验、无机及分析化学实验、无机材料化学、无机合成化学、教师教育技能训练等

### 研究兴趣:

1. 无机纳米材料/无机纳米复合材料的设计、合成及其光化学、电化学性能研究;
2. 功能化金属有机框架材料的设计、合成及其性能研究。

### 科研论文

1. **Y. E. Du, Z. B. Han**, Solvothermal Synthesis and Crystal Structure of a 1D Coordination Polymer:  $[\text{Ni}(\text{1,4-BDC})(\text{N-MIM})_2]_n$  (1,4-BDC = 1,4-Benzenedicarboxylic Acid, N-MIM = N-Methylimidazole). *Russian Journal of Coordination Chemistry*, **2011**, 37(12), 926–930.

2. **Y. E. Du, Z. B. Han**, A new 1D Chiral Metal-Organic Coordination Polymer Constructed by Cu(II) with L-3-Cyanophenylalanine. *Russian Journal of Coordination Chemistry*, **2011**, 37(8), 594–599.

3. **Y. E. Du, Z. B. Han**, Hydrothermal Synthesis and Structural Characterization of a New 3D Chiral Coordination Polymer  $[\text{Cd}_2(\text{C}_4\text{H}_4\text{O}_6)_2]_n$ . *Russian Journal of Coordination Chemistry*, **2011**, 37(7), 506–510.

4. **Y. E. Du, L. Ai, Z. B. Han**, Solvothermal Synthesis and Structural Characterization of a New One-Dimensional Coordination Polymer  $[\text{Zn}(\text{ATIBDC})(\text{DPA})]_n$  ( $\text{H}_2\text{TIBDC}$  = 5-Amino-2,4,6-Triiodoisophthalic Acid, DPA = 2,2'-Dipyridylamine). *Russian Journal of Coordination Chemistry*, **2011**, 37(3), 176–179.

5. **Y. E. Du, L. Ai, Z. B. Han**, A 1D Linear Chain Coordination Polymer Constructed by Co(II) with Atibdc and Bipy Ligands ( $\text{H}_2\text{Atibdc}$  = 5-Amino-2,4,6-triiodoisophthalic Acid, Bipy = 4,4-Bipyridyl). *Russian Journal of Coordination Chemistry*

Chemistry, **2011**, 37(2), 122–126.

6. Zheng-Bo Han, Bi-Ye Li, Jian-Wei Ji, **Yi-En Du**, Hai-Yan An, Ming-Hua Zeng, A 3D Chiral Porous In(III) Coordination Polymer with PtS Topological Net. *Dalton Trans.*, **2011**, 40, 9154–9158.

7. **Yi-en Du**, Xiao-Fang Wang, Yan-Fang Liang, Jian-Wei Ji, Zheng-Bo Han. A New Eight-connected CsCl-type Topological Net Based on Trinuclear Co(II) Clusters as Nodes. *Inorganic Chemistry Communications*, **2011**, 14, 1940-1943.

8. **Y. E. Du**, B. Y. Li, Z. B. Han. Solvothermal Synthesis and Structural Characterization of a New One-Dimensional Chain Coordination Polymer [Co(Bpdc)(Dpa)]<sub>n</sub> (H<sub>2</sub>Bpdc = Benzophenone-4,4'-Dicarboxylic Acid, Dpa = 2,2'-Dipyridylamine). *Russian Journal of Coordination Chemistry*, **2012**, 38(9), 634-638.

9. **Yi-En Du**, Ming-Yang Zhang, Ya-Ru Zhang, Zheng-Bo Han. In Situ Deaminization Reaction of the D-3-(4-Pyridyl)-alanine: A Chiral Zigzag Chain and a Five-fold Interpenetrated Diamondoid Network. *Inorganic Chemistry Communications*, **2012**, 17, 13-16.

10. **Y. E. Du**, Z. B. Han. Solvothermal Synthesis and Structural Characterization of a New One-Dimensional Metal-Organic Framework [Co(Atibdc)(Dpa)]<sub>n</sub> (H<sub>2</sub>Tibdc = 5-Amino-2,4,6-Triiodoisophthalic Acid, Dpa = 2,2'-Dipyridylamine). *Russian Journal of Coordination Chemistry*, **2013**, 39(1), 72-76.

11. **Y. E. Du**, Z. Q. Xing, Y. F. Liang, Z. B. Han. Hydrothermal Synthesis and Structural Characterization of a One-Dimensional Coordination Polymer [Zn(Pydc)(Dppz)]<sub>n</sub> (H<sub>2</sub>Pydc = 2,6-Pyridinedicarboxylic Acid, Dppz = Dipyrido[3,2-a:2',3'-c]Phenazine). *Russian Journal of Coordination Chemistry*, **2013**, 39(1), 114-118.

12. **Yi-en Du**, Qi Feng, Changdong Chen, Yasuhiro Tanaka, Xiaojing Yang. Photocatalytic and Dye-sensitized Solar Cell Performances of {010}-Faceted and [111]-Faceted Anatase TiO<sub>2</sub> Nanocrystals Synthesized from Tetratitanate Nanoribbons. *ACS Applied Materials & Interfaces*, **2014**, 6(18), 16007-16019.

13. **Yi-en Du**, Dejian Du, Qi Feng, Xiaojing Yang. Delithiation, Exfoliation and Transformation of Rock-salt-structured Li<sub>2</sub>TiO<sub>3</sub> to Highly Exposed {010}-Faceted Anatase. *ACS Applied Materials & Interfaces*, **2015**, 7(15), 7995-8004.

14. **Yi-en Du**, Jun Li, Yufang Liu, Xianjun Niu, Fang Guo, Qi Feng. Synthesis of {110}-Faceted Rutile TiO<sub>2</sub> Nanocrystals from Tetratitanate Nanoribbons for Improving Dye-sensitized Solar Cell Performances. *RSC Advances*, **2016**, 6, 9717-9724.

15. **Yi-en Du**, Yang Bai, Yufang Liu, Yanqing Guo, Xuemei Cai, Qi Feng. One-pot Synthesis of [111]-/{010} Facets Coexisting Anatase Nanocrystals with Enhanced Dye-sensitized Solar Cell Performance. *ChemistrySelect*, **2016**, 1, 6632-6640.

16. Xianjun Niu, **Yi-en Du**\*, Yufang Liu, Hongxue Qi, Jing An, Xiaojing Yang, Qi Feng. Hydrothermal Synthesis and Formation Mechanism of the Anatase Nanocrystals with Co-exposed High energy {001}, {010} and [111]-Facets for Enhanced Photocatalytic Performance. *RSC Advances*, **2017**, 7, 24616–24627.

17. 杜意恩, 白杨, 刘毓芳\*, 蔡雪梅, 郭彦青. 超声分散法制备 WS<sub>2</sub>/TiO<sub>2</sub> 复合光催化剂及其光催化性能. *四川大学学报 (自然科学版)*, **2017**, 54(4), 829-834.

18. Wanxi Li, Hongxue Qi, **Yi-En Du**. Fe-Fe<sub>3</sub>C/C Fibers as a Highly Efficient Microwave Absorbent. *Journal of Nanoscience and Nanotechnology*, **2017**, 17, 4504–4510.

19. Yufang Liu, **Yi-en Du**\*, Yang Bai, Jing An, Jianqing Li, Xiaojing Yang, Qi Feng. Facile Synthesis of {101}, {010} and [111]-Faceted Anatase-TiO<sub>2</sub> Nanocrystals Derived from Porous Metatitanic Acid H<sub>2</sub>TiO<sub>3</sub> for Enhanced Photocatalytic Performance. *ChemistrySelect*, **2018**, 3, 2867-2876.

20. Leng Liu, **Yi-en Du**\*, Xianjun Niu, Wanxi Li, Jun Li, Xiaojing Yang, and Qi Feng. Synthesis, Transformation Mechanism and Photocatalytic Properties of Various Morphologies Anatase TiO<sub>2</sub> Nanocrystals Derived From Tetratitanate Nanobelts. *ChemistrySelect*, **2018**, 3, 9953-9959.

21. 刘冷, 杜意恩\*, 李军, 刘毓芳, 蔡雪梅, 陈勇强. 水热法制备 ZnTiO<sub>3</sub>/TiO<sub>2</sub> 复合光催化剂及其光催化性能研究. *四川大学学报 (自然科学版)*, **2018**, 55(4), 827-832.

22. 刘毓芳, 吕秀清, 杜意恩. 腐植酸对水体中汞的吸附研究. *晋中学院学报*, **2018**, 35(3), 32-36.

23. **Yi-en Du**\*, Xianjun Niu, Yang Bai, Hongxue Qi, Yanqing Guo, Yongqiang Chen, Pengfei Wang, Xiaojing Yang, Qi Feng. Synthesis of Anatase TiO<sub>2</sub> Nanocrystals with Defined Morphologies from Exfoliated Nanoribbons: Photocatalytic Performance and Application in Dye-sensitized Solar Cell. *ChemistrySelect*, **2019**, 4, 4443-4457.

24. De-jian Du, **Yi-en Du**, Wen-bo Yue, Xiao-jing Yang. Lithium Storage Performance of {010}-Faceted and [111]-Faceted Anatase TiO<sub>2</sub> Nanocrystals. *J. Cent. South Univ.* **2019**, 26, 1530–1539.

25. Jing He, **Yi-en Du**\*, Yang Bai, Jing An, Xuemei Cai, Yongqiang Chen, Pengfei Wang, Xiaojing Yang, and Qi Feng. Facile Formation of Anatase/Rutile TiO<sub>2</sub> Nanocomposites with Enhanced Photocatalytic Activity. *Molecules*, **2019**, 24, 2996.

26. Wanxi Li, Hongxue Qi, Fang Guo, **Yien Du**, Ningjing Song, Yanyun Liu, Yongqiang Chen. Co Nanoparticles Supported on Cotton-based Carbon Fibers: A Novel Broadband Microwave Absorbent. *Journal of Alloys and Compounds*,

2019, 772, 760-769.

27. 刘冷, 杜意恩\*, 牛宪军. 溶胶-凝胶法制备锐钛矿型TiO<sub>2</sub>光催化剂及其光催化性能研究. 四川大学学报(自然科学版), 2019, 56(3), 507-512.

28. 何婧, 刘冷, 杜意恩\*, 李军. 一种新型锰配位聚合物[[Mn(H<sub>2</sub>cpimda)<sub>2</sub>(H<sub>2</sub>O)<sub>2</sub>·H<sub>2</sub>O]<sub>n</sub>的水热合成及晶体结构表征. 海南师范大学学报(自然科学版), 2019, 32(2), 141-146.

29. Hongxue Qi, Xiuling Chen, Yi-en Du, Xianjun Niu, Fang Guo, WanxiLi\*. Cancer Risk Assessment of Soils Contaminated by Polycyclic Aromatic Hydrocarbons in Shanxi, China [J]. Ecotoxicology and Environmental Safety, 2019, DOI: org/10.1016/j.ecoenv.2019.10938.

发明专利:

1. 杨晓晶\*, 杜意恩, 杜德健, 一种TiO<sub>2</sub>纳米晶的合成方法, 专利号: ZL 201410410548.3

2. 杨晓晶\*, 杜意恩, 杜德健, 一种TiO<sub>2</sub>纳米晶及其合成方法, 专利号: ZL 201410411656.2

科研项目:

1. 国家自然科学基金面上项目, 20873999, 无机纳米片与石墨烯的可控组装及其纳米复合体的光化学电化学性能, 2013/01—2016/12, 80万元, 主要参与者;

2. 山西省科技创新项目, 2017172, 基于废弃生物质设计合成轻质高效微波吸收剂的研究, 2017/05—2019/05, 2万元, 主要参与者;

3. 晋中学院教学改革创新项目, Jg201903, 以富媒体技术深化《无机化学实验》课程建设的探索与实践, 2019/05—2021/05, 1万元, 主持;

4. 山西省高等学校教学改革创新项目, J2019186, 以富媒体技术深化《无机化学实验》课程建设的探索与实践, 2019/06—2021/06, 1万元, 主持。

荣誉奖项:

1. 河北省成安县第一中学青年教师讲课比赛二等奖(2004年、2005年);

2. 河北省成安县优秀团务工作者(2005年);

3. 河北省成安县新长征突击手(2005年);

4. 河北省邯郸市优秀辅导员(2005年);

5. 河北省成安县第一中学青年教师讲课比赛一等奖(2008年);

6. 辽宁大学化学学院优秀助教(2010年);

7. 指导的学生荣获“山西高校教师教育联盟第二届师范生教学技能竞赛”二等奖(2016年);

8. 指导的学生荣获“第四届全国师范生教学技能竞赛”三等奖(2016年);

9. 晋中学院“优秀大学生”成长导师(2017年);

10. 晋中学院“三育人”工作先进个人(2018年);

11. 指导的学生荣获“山西高校教师教育联盟第四届师范生教学技能竞赛”三等奖(2019年)。

社会兼职:

“亚太化学期刊”编委、Geomicrobiology Journal、Chemistryselect、Nanoscale等国际期刊审稿人。

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