

姜建壮 教授

姓 名	姜建壮
性 别	男
出生日期	1963. 3. 24
职 称	教授（博导）
工作单位	无机化学研究所
电 话	0531-8364088
传 真	0531-8365211
E-mail	jzjiang@sdu.edu.cn

【主讲课程】

分子功能材料、无机物研究法、无机化学前言导论等

【研究领域和兴趣】

卟啉酞菁化学、稀土化学、分子基光电磁功能材料和分子器件。着眼于发展新的合成方法，设计制备新型酞菁、萘菁、卟啉稀土配合物或聚合配合物尤其是手性分子功能材料，开发新型分子器件。

【主要论著】

(最近 10 篇代表论文)

1. Zhu, P., Pan, N., Ma, C., Sun, X., Arnold, D. P., Jiang, J.* (2004):
Electrochemistry of Heteroleptic Tris(phthalocyaninato) Rare Earth(III) Complexes,
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2. Zhu, P., Lu, F., Pan, N., Arnold, D. P., Zhang, S., Jiang, J.* (2004): Comparative
Electrochemical Study of Unsubstituted and Substituted Bis(phthalocyaninato) Rare
Earth(III) Complexes, Eur. J. Inorg. Chem., 510-517.
3. Bian, Y., Jiang, J.*, Tao, Y., Choi, M. T. M., Li, R., Ng, A. C. H.; Zhu, P.,
Pan, N., Sun, X., Arnold, D. P., Zhou, Z., Li, H.-W., Mak, T. C. W., Ng, D. K. P.
(2003): Tuning the Valence of the Cerium Center in (Na)phthalocyaninato and
Porphyrinato Cerium Double-Deckers by Changing the Nature of the Tetrapyrrole

Ligands. *J. Am. Chem. Soc.*, 125, 12257–12267.

4. Bai, M., Bao, M., Ma, C., Arnold, D. P., Ng, D. K. P., Jiang, J.* (2003): New dimeric supramolecular structure of mixed (porphyrinato)(phthalocyaninato) europium sandwiches: preparation and spectroscopic characteristics. *J. Mater. Chem.*, 13, 1333–1339.
5. Bian, Y., Wang, R., Jiang, J.*, Lee, C.-H., Wang, J., Ng, D. K. P. (2003): Synthesis, spectroscopic characterisation and structure of the first chiral heteroleptic bis(phthalocyaninato) rare earth complexes. *Chem. Commun.*, 1194–1195.
6. Sun, X., Cui, X., Arnold, D. P.*, Choi, M. T. M., Ng, D. K. P., Jiang, J.* (2003): The Electronic Absorption Characteristics of Mixed (Porphyrinato) (Phthalocyaninato) Rare Earth(III) Triple-Deckers $M_2(TPyP)_2(Pc)$, *Eur. J. Inorg. Chem.*, 1555–1561.
7. Bian, Y., Wang, D., Wang, R., Wen, L., Dou, L., Zhao, D., Ng, D. K. P., Jiang, J.* (2003): Structural studies of the whole series of lanthanide double-decker compounds with mixed 2,3-naphthalocyaninato and octaethylporphyrinato ligands. *New J. Chem.*, 27, 844–849.
8. Jiang, J.*, Bian, Y., Furuya, F., Liu, W., Choi, M. T. M., Li, H. W., Kobayashi, N., Yang, Q., Mak, T. C. W., Ng, D. K. P. (2001): Sandwich-type Rare Earth Complexes with 2,3-Naphthalocyaninato and Octaethylporphyrinato Ligands. Synthesis, Structure, Spectroscopic and Electrochemical Properties, *Chem. Eur. J.* 7, 5059–5069.
9. Jiang, J.*, Liu, W., Cheng, K.-L., Poon, K.-W., Ng, D. K. P. (2001): Heteroleptic Rare Earth Double-Decker Complexes with Porphyrinato and 2,3-Naphthalocyaninato Ligands, *Eur. J. Inorg. Chem.* 413–417.
10. Jiang, J.*, Kasuga, K., Arnold, D. P. (2001): Sandwich-type phthalocyaninato and porphyrinato metal complexes (review), *Supramolecular Photosensitive and Electroactive Materials*. Ed. Nalwa, H. S. (New York, USA: Academic Press), Chapter 2, 113–210.

【科研项目】

1. 三明治型稀土卟啉酞菁配合物分子材料、功能材料（国家自然科学基金委杰出青年基金，批准号为 20325105）；
2. 手性三明治型稀土酞菁配合物的设计、合成与性质表征（国家自然科学基金委，批准号为 20171028）；
3. 含酞菁三明治型稀土配合物的合成和性质表征（国家科技部“973”“纳电子运算器材料的表征与性能基础研究”，批准号为 2001CB6105-04）；
4. 卟啉、酞菁分子基功能材料（国家教育部“跨世纪优秀人才”基金）。