Journal of Materials Chemistry C

Materials for optical, magnetic and electronic devices

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Bridging the gap from single molecule properties to organic semiconductor materials

Qian Zhan, Dacheng Dai, Fang Miao, Dongsheng Wang,* Xiaodong Liu* and Yonghao Zheng*



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Highly stable lanthanide cluster-based luminescent materials constructed from β -diketone to 1,10-phenanthroline exhibiting ultrahigh photoluminescence and efficient pesticide detection

Mei-Xin Hong, Cheng Chen, Lingyun Cao,* Jun Zheng and Xiu-Ying Zheng*



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Active Bi

Inactive B



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MISSION



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Sook Hee Jeong, Jun Seop Im, Dong Ryun Lee, Han Jin Ahn, Jun Yun Kim, Ji-Ho Baek and Jun Yeob Lee*

the lower RH detection limit to near zero in



HOMO-LUMO separation by steric hindrance D-A

Enhanced electron transport property

✓ Enhanced electron
✓ Small ∆E_{ST}
✓ TADF property
✓ High triplet energy



Anodic Alumina

Graphene Oxide Hydroxyl Group





Upconversion enhancement through engineering the local crystal field in Yb³⁺ and Er³⁺ codoped BaWO₄ along with excellent temperature sensing performance

Guotao Xiang,* Zhen Liu, Zhiyu Yang, Yongjie Wang, Lu Yao, Sha Jiang, Xianju Zhou, Li Li, Xiaojun Wang* and Jiahua Zhang*





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Dayu Huang, Pan Zheng, Ziyong Cheng, Qiuyun Ouyang,* Hongzhou Lian* and Jun Lin*

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Nargish Parvin, Tapas K. Mandal* and Sang W. Joo*

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Correction: Compositional engineering solutions for decreasing trap state density and improving thermal stability in perovskite solar cells

Manala Tabu Mbumba, Davy Maurice Malouangou, Jadel Matondo Tsiba, Muhammad Waleed Akram, Luyun Bai, Yifan Yang and Mina Guli*