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Boran Tao, Dailin Zhong, Hongda Li, Guofu Wang and Haixin Chang*



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Lixin Xu, Hao Jia, Chuang Zhang, Baipeng Yin* and Jiannian Yao*



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EDGE ARTICLES

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Significance of the connecting position between Zn(n) porphyrin and Re(n) bipyridine tricarbonyl complex units in dyads for room-temperature phosphorescence and photocatalytic CO_2 reduction: unexpected enhancement by triethanolamine in catalytic activity

Yusuke Kuramochi,* Yuto Suzuki, Somyo Asai, Tomohiro Suzuki, Hiroki Iwama, Motoko S. Asano* and Akiharu Satake*

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In vitro characterization of nonribosomal peptide synthetase-dependent O-(2-hydrazineylideneacetyl) serine synthesis indicates a stepwise oxidation strategy to generate the α -diazo ester moiety of azaserine

Yusuke Shikai, Seiji Kawai, Yohei Katsuyama* and Yasuo Ohnishi





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Accessing complex reconstructed material structures with hybrid global optimization accelerated *via* on-the-fly machine learning

Xiangcheng Shi, Dongfang Cheng, Ran Zhao, Gong Zhang, Shican Wu, Shiyu Zhen, Zhi-Jian Zhao^{*} and Jinlong Gong^{*}



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A rational design strategy of radical-type mechanophores with thermal tolerance

Yi Lu, Hajime Sugita, Koichiro Mikami,* Daisuke Aoki and Hideyuki Otsuka*

Parallel multi-droplet platform for reaction kinetics and optimization

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Ritwika Chatterjee and Garima Jindal*

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Wencheng Zhong, Kangqiang Liang, Wenfeng Liu and Li Shang $\!\!\!\!\!^*$

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Thieno[3,4-*d*]pyrimidin-4(3*H*)-thione: an effective, oxygenation independent, heavy-atom-free photosensitizer for cancer cells

Luis A. Ortiz-Rodríguez, Ye-Guang Fang, Germain Niogret, Kaivin Hadidi, Sean J. Hoehn, Heather J. Folkwein, Steffen Jockusch, Yitzhak Tor,* Ganglong Cui,* Liraz Levi* and Carlos E. Crespo-Hernández*

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Controlling NIR-II emitting gold organic/inorganic nanohybrids with tunable morphology and surface PEG density for dynamic visualization of vascular dysfunction

Tingyao Zhou, Menglei Zha, Hao Tang, Kai Li and Xingyu Jiang*







Necklace-like shape Higher QY (0.59%) Longer blood t_{1/2} (3.44 h)



Spherical shape

Lower QY (0.11%) Shorter blood $t_{1/2}$ (10 min)

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pH-Switching of the luminescent, redox, and magnetic properties in a spin crossover cobalt(II) molecular nanomagnet

Renato Rabelo, Luminita Toma, Nicolás Moliner, Miguel Julve, Francesc Lloret, Mario Inclán, Enrique García-España, Jorge Pasán, Rafael Ruiz-García and Joan Cano^{*}

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Impact of electrolyte decomposition products on the electrochemical performance of 4 V class K-ion batteries

Tomooki Hosaka, Tatsuo Matsuyama, Ryoichi Tatara, Zachary T. Gossage and Shinichi Komaba*







EDGE ARTICLES



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50 40

20 10 0

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* ⁴⁰ **e** 30 TEMPLATE

time (hrs)

200 300 400 500 600

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Daniele Rosa-Gastaldo, Andrea Dalla Valle, Tommaso Marchetti and Luca Gabrielli*

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Jiyu Sun, Daniel A. Decato, Vyacheslav S. Bryantsev, Eric A. John and Orion B. Berryman*



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Kevin Fabrizio, Eoghan L. Gormley, Audrey M. Davenport, Christopher H. Hendon^{*} and Carl K. Brozek^{*}

Selective synthesis of germasila-adamantanes through germanium-silicon shift processes

Steffen Kühn, Benedikt Köstler, Celine True, Lena Albers, Matthias Wagner,* Thomas Müller* and Christoph Marschner*

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SiMe_x GeMe_x x = 0-3

Electron delocalization of robust high-nuclear bismuth-oxo clusters for promoted CO₂ electroreduction

Baoshan Hou, Haiyan Zheng, Kunhao Zhang, Qi Wu, Chao Qin, Chunyi Sun,* Qinhe Pan, Zhenhui Kang, Xinlong Wang* and Zhongmin Su