

# Dalton Transactions

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See Urszula K. Komarnicka  
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pp. 114–124.

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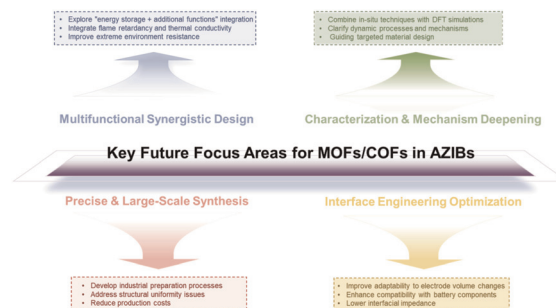
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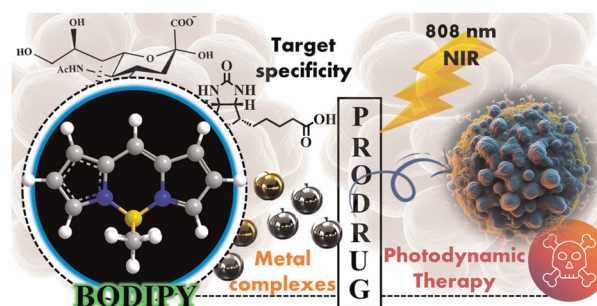
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Twara Kikani, Krutika Patel and Sonal Thakore\*



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## Next-generation therapeutics: unlocking the power of lanthanide compounds with phosphorus-containing ligands

Kacper Kardas, Debbie C. Crans and Urszula K. Komarnicka\*

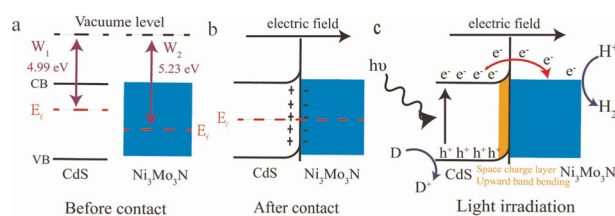


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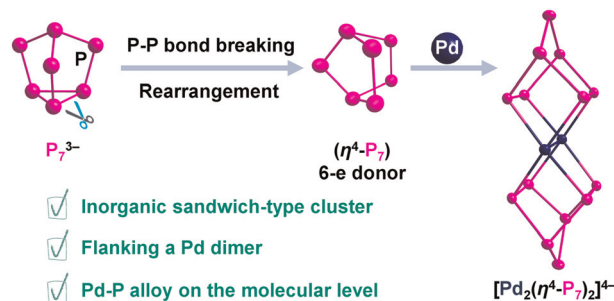
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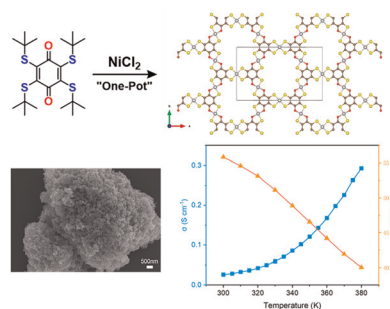
Minghao Deng, Xinyue Wang, Yu Tang\* and Fuxing Pan\*



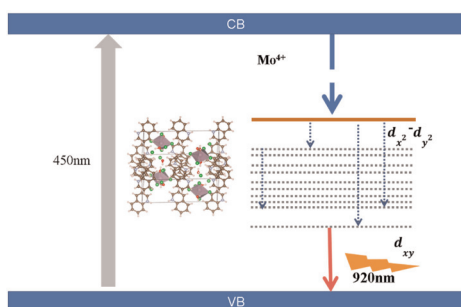
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Wenkai Liao, Siping Yin, Sha Wu and Wei Xu\*



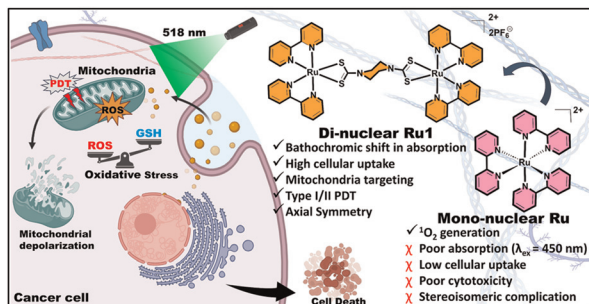
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Chao Wang,\* Junlin Wang, Xiangfeng Cai and Zhihui Wang\*

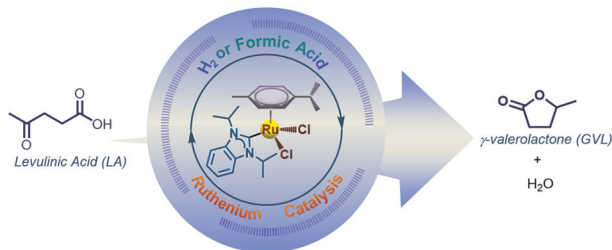
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Monika Negi and V. Venkatesh\*

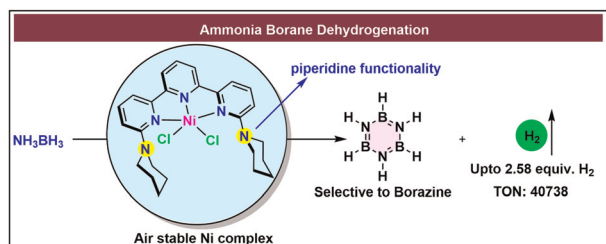
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Bijan Mondal, Aisa Mohanty and Prosenjit Daw\*

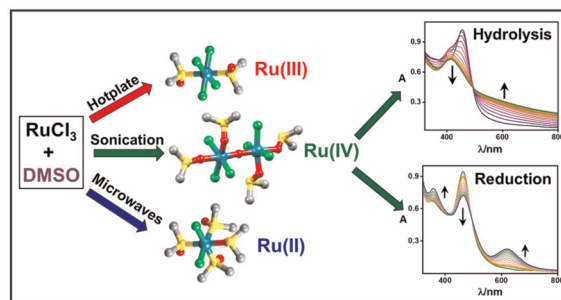


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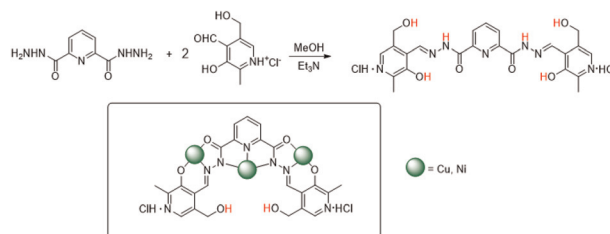


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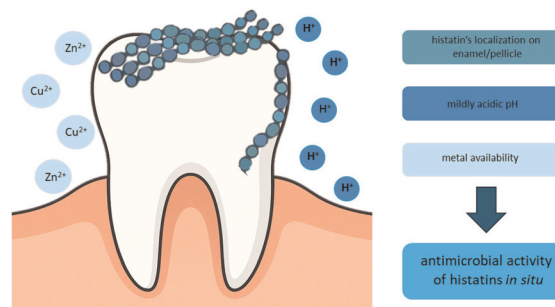
Wajid Ali, Hamed Bakhshi, Abdul Jabbar, Melanie Pilkington, Jeremy M. Rawson,\* Ahmed Al-Harrasi\* and Muhammad U. Anwar\*



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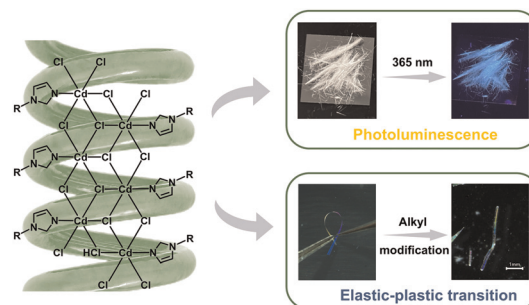
Emilia Dzień, Aleksandra Mikołajczyk-Tarnawa, Agnieszka Matera-Witkiewicz,\* Krzysztof Szewczyk, Miquel Barceló-Oliver, Lilla Pawlik-Sobecka, Joanna Wąty and Magdalena Rowińska-Żyrek\*



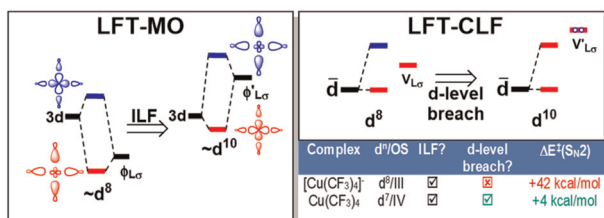
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Jia-Hui Zhang, Yu-Xia Li, Kai-Ge Gao, Xin-Li Shi, Jie-Sheng Hu, Hui Ai, Zi-Shuo Yao\* and Jun Tao



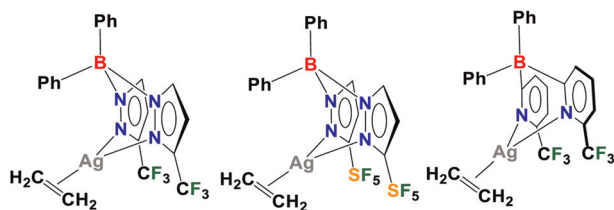
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Robert J. Deeth

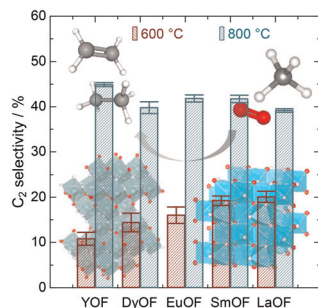
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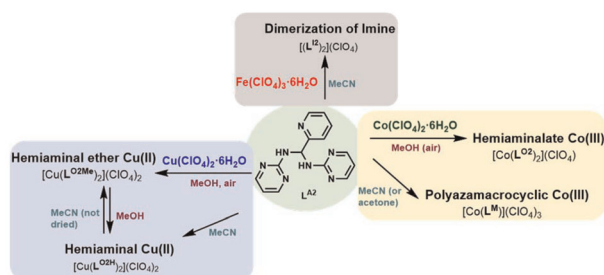
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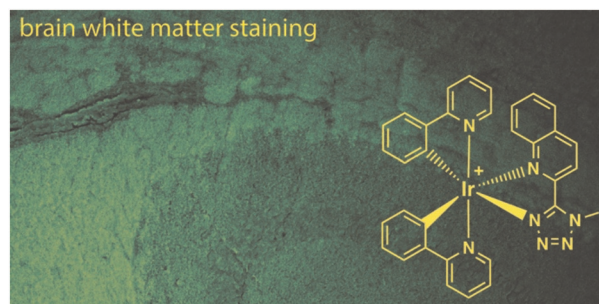
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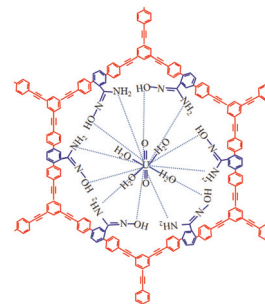
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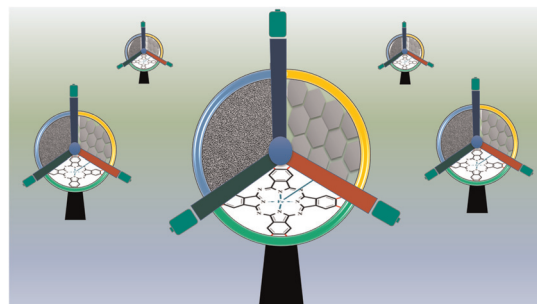
Guangyu Xu, Qi Chen, Caijuan Lu, Luxin Huang, Zhengfeng Hu\* and Muqing Qiu\*



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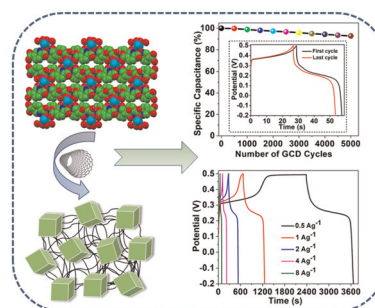
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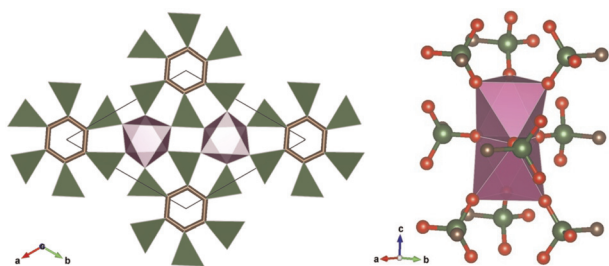
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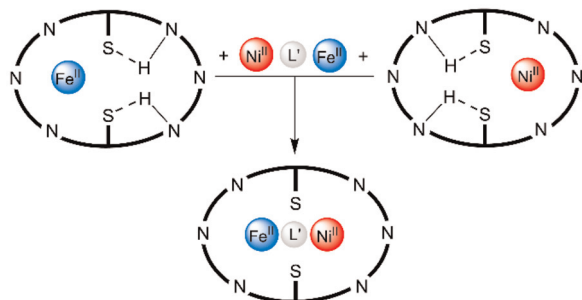
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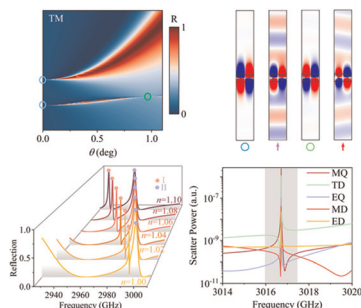
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Vanessa Stephan, Christian Zocher, Martin Börner, Jennifer Klose, Daniel Fuhrmann and Berthold Kersting\*

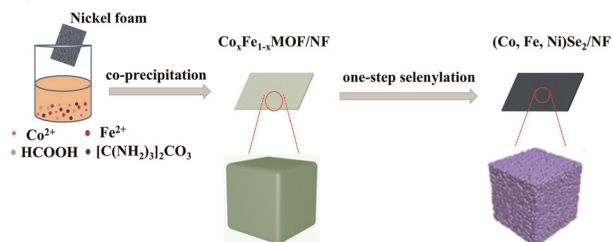
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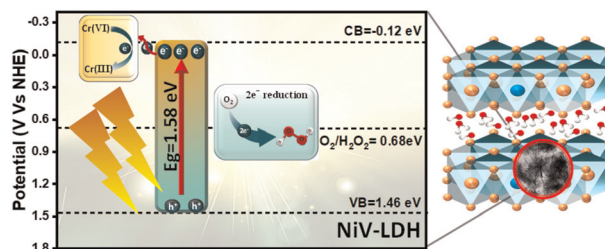
Youwen Li, Yuying Feng, Jiahui Jiang, Ting Zhao, Guancheng Xu\* and Li Zhang\*



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### Green synthesis of oxygen-vacancy-rich NiV-LDH photocatalysts for the enhancement of photocatalytic H<sub>2</sub>O<sub>2</sub> production and Cr(vi) detoxification

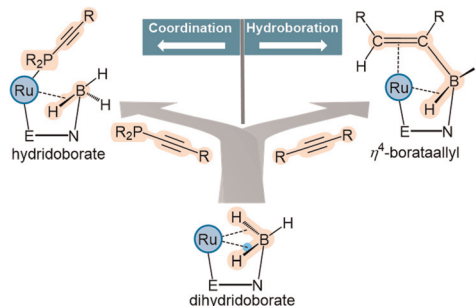
Preeti Prabha Sarangi, Jyotirmayee Sahu, Rasan Kumar Giri and Kulamani Parida\*



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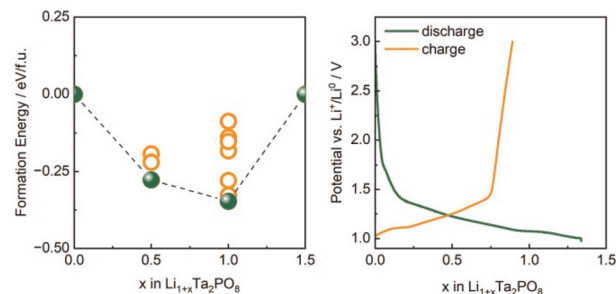
Sourav Gayen, Snigdha Satapathi, Deepak Kumar Patel and Sundargopal Ghosh\*



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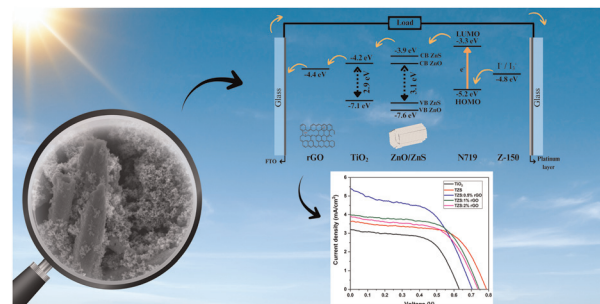
Maria G. Skachilova, Yelizaveta A. Morkhova and Alexander A. Shindrov\*



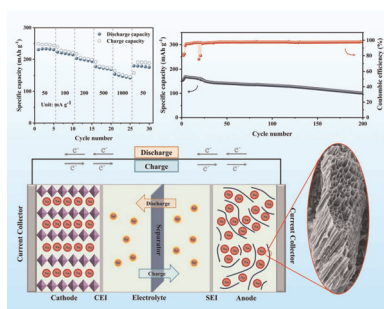
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### Insight into the development and behaviour of (TiO<sub>2</sub>)<sub>0.9</sub> + ((ZnO/ZnS):x% rGO)<sub>0.1</sub> composites as photoelectrodes in DSSCs

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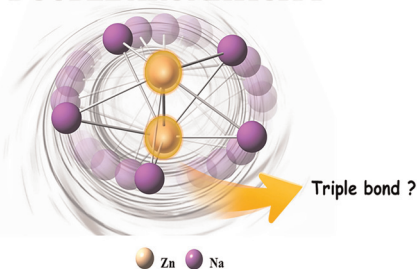


### Biomass-derived hard carbon anodes with enhanced capacity for sodium-ion batteries

Huahua Zeng, Juntao He, Jinlian Zhang, Qinxuan Zeng, Ning Li, Ming Sun\* and Lin Yu

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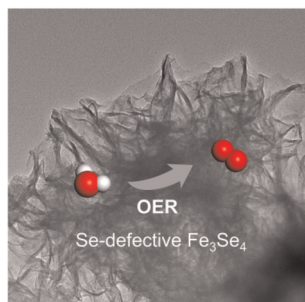
### DOUBLE AROMATICITY



### Canonical Zn–Zn pseudo-triple bond with double aromaticity in $D_{5h}$ - $Zn_2Na_5^-$ cluster

Xinluo Wu, Xingman Liu,\* Lifang Yan, Yue Huang, Xiaomeng Wang\* and Zhongmin Su\*

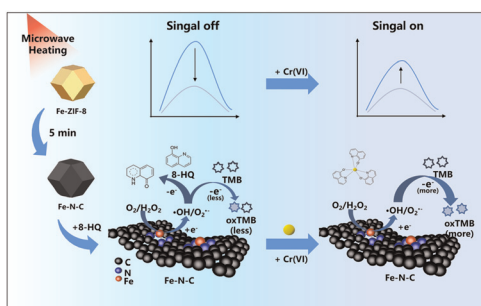
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### Unraveling the role of Se defects in $Fe_3Se_4$ for the electrocatalytic oxygen evolution reaction

Wenjuan Chen, Jinting Wu, Yunfei Zhang, Wan Liu, Zhen-Feng Huang, Ji-Jun Zou, Yong-Chao Zhang\* and Xiao-Dong Zhu\*

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### Microwave-assisted synthesis of Fe-based single-atom nanozyme: a colorimetric approach to detect Cr(vi)

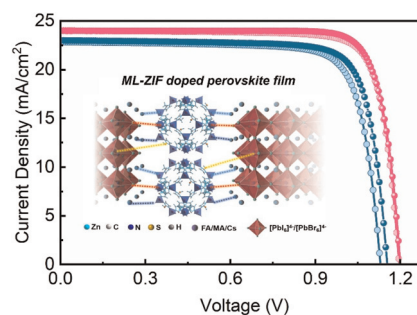
Zixiang Liao, Yue Ren, Bingzheng Yuan, Libo Li\* and Tianyan You\*



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### Mixed-ligand ZIF-doped perovskite films toward damp-heat-stable solar cells

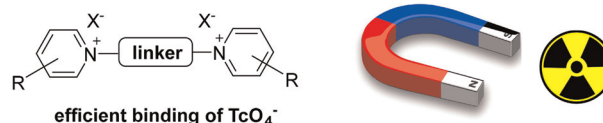
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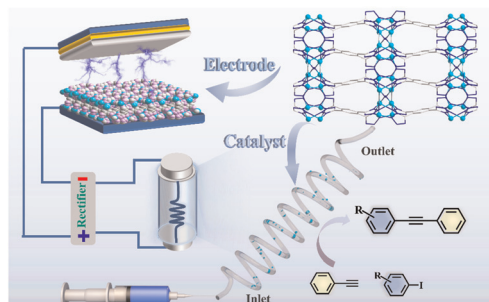
Yuri A. Ustynyuk, Igor P. Gloriov, Zoia A. Sizova, Nelly I. Zhokhova, Uliana M. Leksina, Anna Yu. Fominykh, Alexander V. Gopin, Petr I. Matveev, Vladimir G. Petrov, Victor A. Tafeenko and Valentine G. Nenajdenko\*



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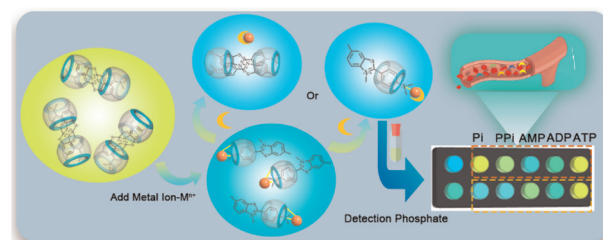
Yuanmeng Tao, Chao Huang,\* Jiaying Cui, Dandan Wang, Qi Qin, Jichao Wang\* and Zhichao Shao\*



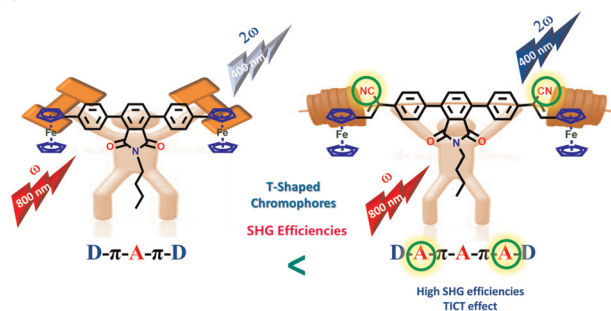
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### Cucurbit[8]uril-guest-metal ion self-assemblies as fluorescence sensor arrays for discrimination and detection of physiological phosphates

Ru-Pei Yang, Hong-Xue Wang, Qing Tang, Jian-Hang Hu, Hong-Ling Yi, Hong-Yuan Hu, Zhu Tao and Ying Huang\*



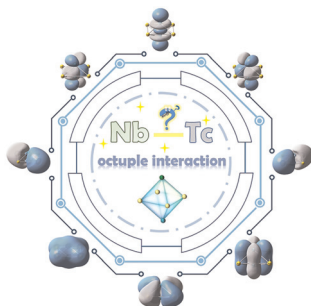
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### Enhancement of second harmonic generation (SHG) in ferrocene-appended T-shaped chromophores: impact of the cyanovinylene moiety with the TICT effect and theoretical insights

Vengidusamy Srinivasan Subiksha, P. P. Sanak Archana and Nallasamy Palanisami\*

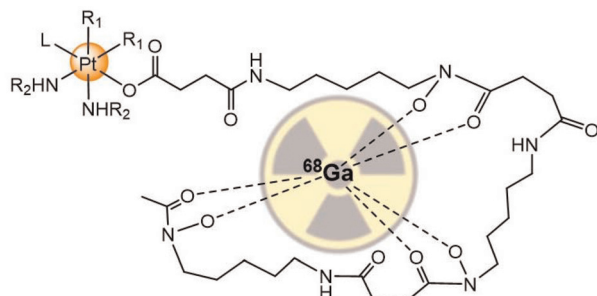
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### Cubic aromaticity in octahedral NbTcAu<sub>4</sub> featuring a stable Nb–Tc quadruple bond plus four additional delocalized interactions

Yue Huang, Xingman Liu,\* Lifang Yan, Jianyu Wei, Xinluo Wu, Xiaomeng Wang,\* Yingtao Liu and Zhongmin Su\*

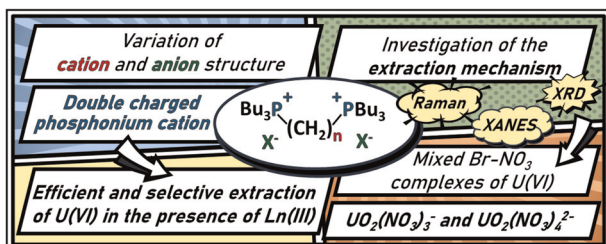
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### <sup>68</sup>Ga radiolabeling strategies in Pt(IV)-deferoxamine scaffolds for potential theranostic application

Giulia Ferrari, Ines Lopez-Martinez, Mohamad Saqawa, Eithne Demspey, Thomas Wanek, Irena Pashkunova-Martic, Silvia Panseri, Marcus Hacker, Monica Montesi,\* Claudia Kuntner\* and Diego Montagner\*

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### Diposphonium salts as effective extractants for the separation of uranium(VI) from nitric acid media

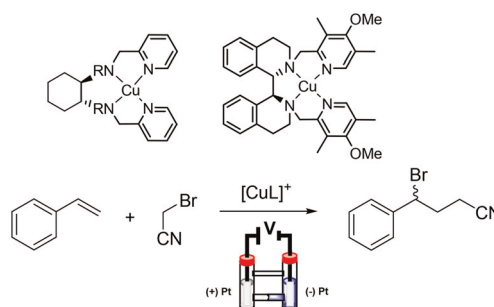
Anna Yu. Fominykh,\* Mikhail A. Gerasimov, Tatiana Poliakova, Daniil Novichkov, Paulina Kalle, Alexey Averin, Anna D. Krot, Natalia E. Borisova and Petr I. Matveev



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### Exploring asymmetric electrochemical atom transfer radical addition with chiral copper complexes

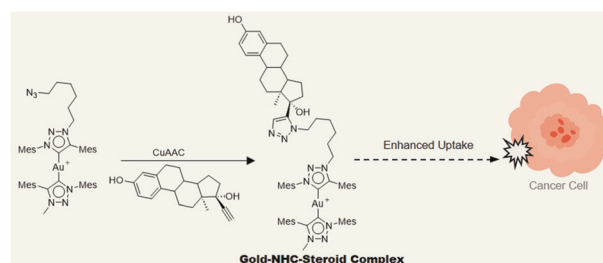
Jawed El Batti, Masnun Naher, Craig M. Williams\* and Paul V. Bernhardt\*



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### Oestradiol post-functionalized gold(i) bis(1,2,3-triazol-5-ylidene) complex exhibits high activity for ER $\alpha$ -positive breast cancer cells (MCF-7)

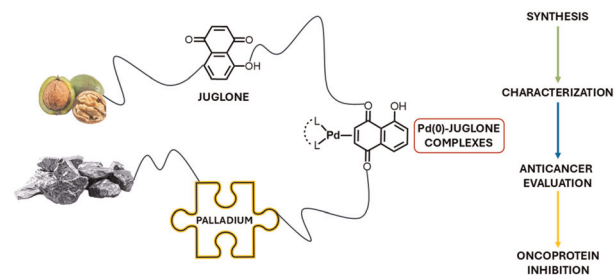
Melanie E. Hoffmann, Fernanda Marques, João D. G. Correia and Fritz E. Kühn\*



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### Palladium(0) and Juglone: a new alliance in the fight against ovarian cancer

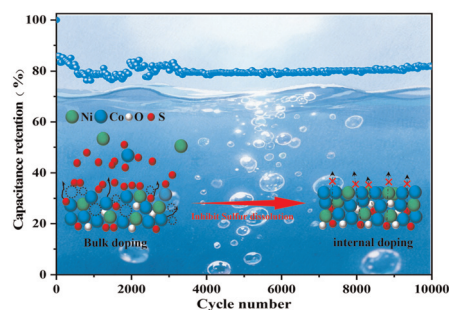
Giovanni Tonon, Anna Rafaniello, Matteo Mauceri, Nicola Demitri, Thomas Scattolin,\* Flavio Rizzolio\* and Fabiano Visentin\*



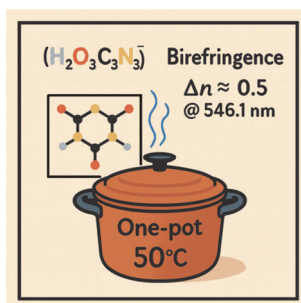
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### Enhanced electrochemical performance of NiCo-LDH by inner sulfur doping design

Yujiao Li, Zhaoshun Liu, Zhongning Shi, Hongbin Sun and Junli Xu\*



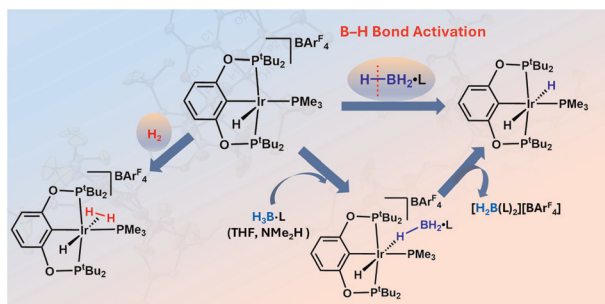
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### A one-pot method in water to synthesize a new cyanurate $\text{K}(\text{H}_2\text{C}_3\text{N}_3\text{O}_3)\cdot\text{H}_2\text{O}$ with large birefringence

Bingheng Ji, Chu Chu, Bingbing Zhang\* and Jian Wang\*

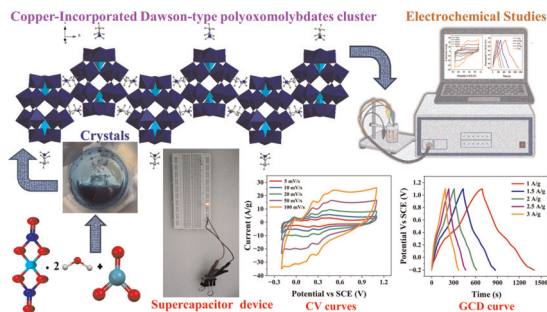
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### Heterolytic cleavage of the B–H bond in $\text{H}_3\text{B}\cdot\text{L}$ ( $\text{L} = \text{THF}, \text{NMe}_2\text{H}$ ) by an electrophilic $\text{Ir}(\text{III})$ pincer complex $[\text{Ir}(\text{H})(\text{PMe}_3)(^t\text{Bu}_4\text{POCOP})][\text{BAr}_4^{\text{F}}]$

Mitarani Pradhan, Zeel Y. Surati, Apurba Kumar Pal, Kumar Vanka\* and Balaji R. Jagirdar\*

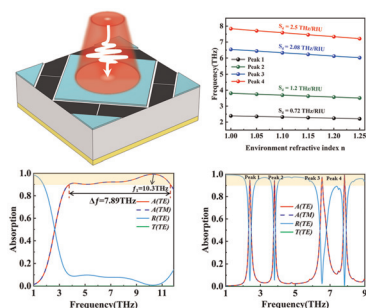
492



### Redox-active modification of Dawson-type copper molybdate cluster for advanced supercapacitor applications

Ankita Pardiwala, Ravi Rajan Pandey, Anshu Andola, Rakesh K. Pandey\* and Ritambhara Jangir\*

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### A dynamically switchable three-layer terahertz metasurface based on a $\text{VO}_2$ –graphene hybrid for ultra-broadband and quad-narrowband absorption

Zhihan Chen, Shengyuan Wang, Hao Chen,\* Xinyao Wu, Shenglan Pu and Bo Dai\*

