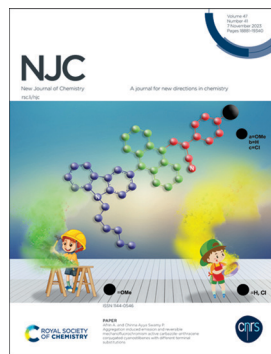


## IN THIS ISSUE

ISSN 1144–0546 CODEN NJCHES 47(41) 18881–19340 (2023)



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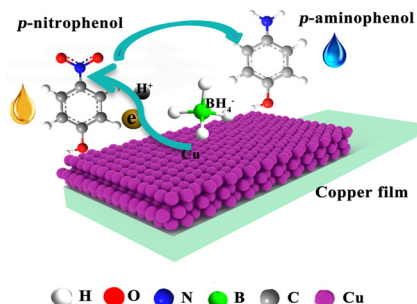
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## COMMUNICATIONS

18896

### Stable and efficient planar Cu/Cu<sub>2</sub>O film catalysts

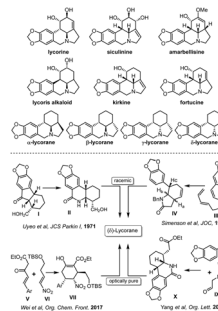
Junfeng Yan\* and Xu Meng



18900

### Total synthesis of (–)-δ-lycorane

Jyoti Shukla,\* Manoj Kumar Gangwar and  
Dipankar Koley\*



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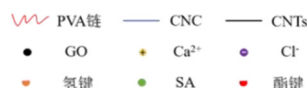
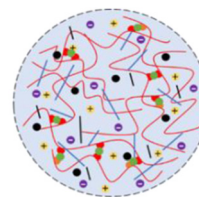


## COMMUNICATIONS

18905

Preparation and performance analysis of CNC/GO/CNTs/PVA/SA- $\text{Ca}^{2+}$  conductive hydrogels

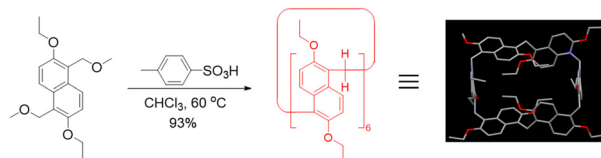
Lingling Meng,\* Shijie Ding, Zhongjie Yan, Zhenzhen Zhong, Weihao Li, Da Liu and En Liu



18910

## A facile and efficient preparation of prism[6]arene and its dual responsive complexation with 1-adamantane ammonium tetrakis [3,5-bis(trifluoromethyl)-phenyl]borate

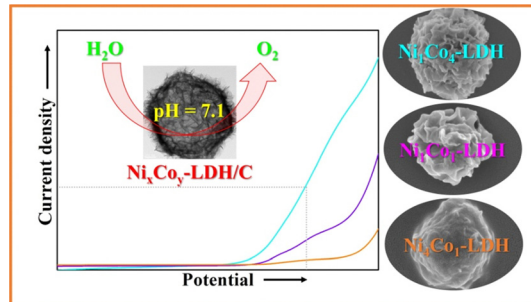
Guojiao Zhang, Zhengxiang Li, Zhen Pan, Dezhi Zhao and Chengyou Han\*



18914

## A hollow cage-like layered double hydroxide-modified carbon paste electrode as an efficient catalyst for electrochemical water oxidation in neutral media

Li Yu,\* Xiaocai Ma, Qin Liang and Yuqing Fan

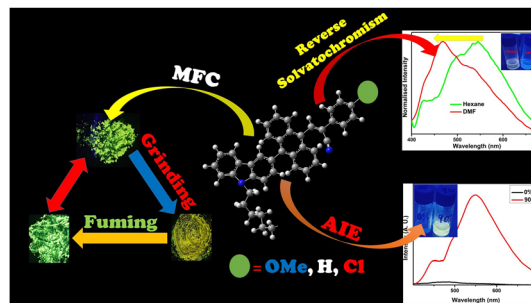


## PAPERS

18919

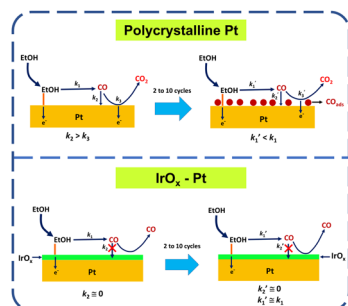
## Aggregation induced emission and reversible mechanofluorochromism active carbazole–anthracene conjugated cyanostilbenes with different terminal substitutions

Afrin A. and Chinna Ayya Swamy P.\*



## PAPERS

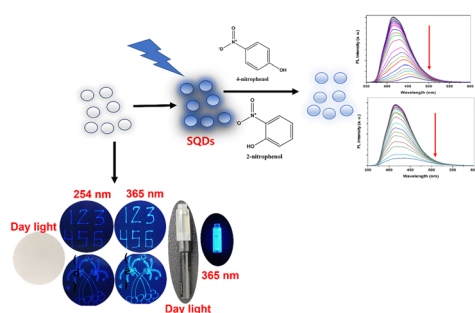
18933



### IrO<sub>x</sub>-Pt electrode for the electro-oxidation of ethanol in alkaline-type direct ethanol fuel cells: an excellent CO-tolerant catalyst

Md. Fahamidul Islam, Jahir Ahmed, M. Faisal, Jari S Algethami, Kentaro Aoki, Yuki Nagao, Farid A. Harraz\* and Mohammad A. Hasnat\*

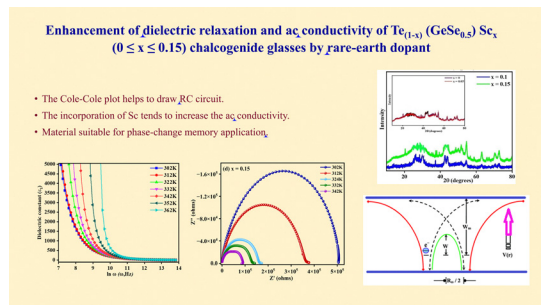
18945



### Sensing nitrophenols and luminescent ink applications of sulfur quantum dots

Sai Kumar Tammina, Ruchir Priyadarshi and Jong-Wan Rhim\*

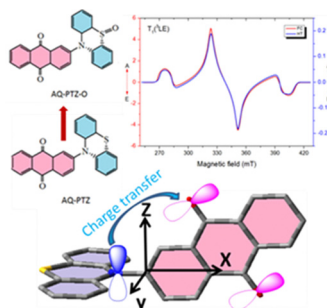
18957



### Enhancement of dielectric relaxation and AC conductivity of Te<sub>(1-x)</sub>(GeSe<sub>0.5</sub>)Sc<sub>x</sub> (0 ≤ x ≤ 0.15) chalcogenide glasses by a rare-earth dopant

Surbhi Agarwal, Pooja Lohia and D. K. Dwivedi\*

18972



### Spin-orbit charge transfer intersystem crossing and thermal activation delayed fluorescence (TADF) studies of compact orthogonal anthraquinone phenothiazine derivatives

LingLing Lv,\* Kun Yuan, TianYu Zhao, HuiXue Li and DongMei Wang

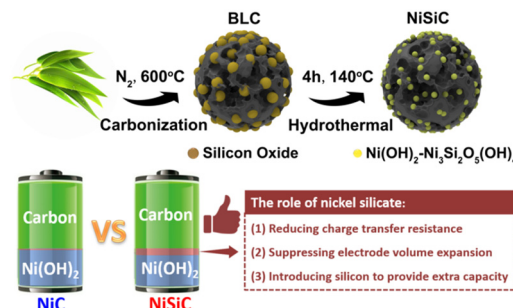


## PAPERS

18983

# Elevating the comprehensive performance of carbon-based hybrid electrode materials by incorporating nickel silicate for lithium-ion capacitors

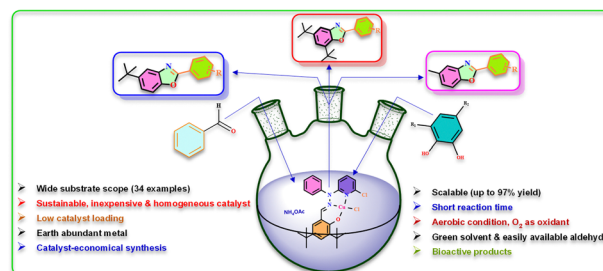
Hao Chen,\* Jiajie Wang, Ziheng Guan, Yingjie Tao, Lanze Li, Junjie Wei, Fan Wang,\* Zhehong Shen and Deren Yang



18995

# Facile synthesis of benzoxazole derivatives by a multi-component reaction catalysed by copper complexes capable of generating phenoxy radical complex

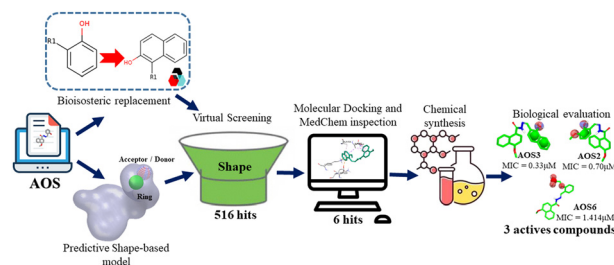
Virendra Kumar Chaudhary, Sain Singh, Kapil Kumar, Angshuman R. Choudhury and Kaushik Ghosh\*



19005

# Bioisosteric-replacement-driven optimization of 4-methoxynaphthalene-*N*-acylhydrazones with anti-*Paracoccidioides* activity

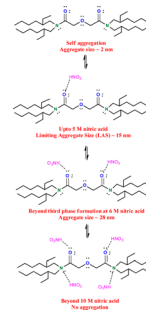
Amanda Alves de Oliveira,\* Lívia do Carmo Silva,\* Andrew Matheus Frederico Rozada, Vinícius Alexandre Fiaia Costa, Célia Maria de Almeida Soares, Flavio Augusto Vicente Seixas, Bruno Junior Neves, Gisele Freitas Gauze and Maristela Pereira



19017

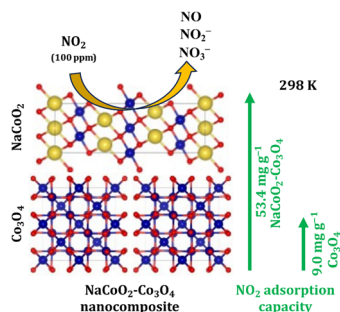
# The fate of the organic phase beyond third phase formation

N. Parvathy, Satyabrata Mishra and K. A. Venkatesan\*





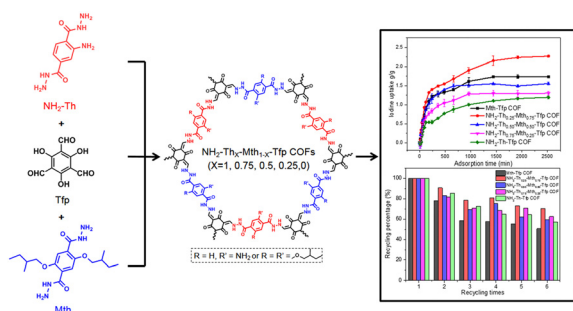
19029



### Reactive adsorption of NO<sub>2</sub> over the NaCoO<sub>2</sub>–Co<sub>3</sub>O<sub>4</sub> nanocomposite: experimental study and first-principles calculations

Nishesh Kumar Gupta,\* Kaptan Rajput, Bijal R. Mehta, Herlys Viltres, Debesh R. Roy and Kwang Soo Kim\*

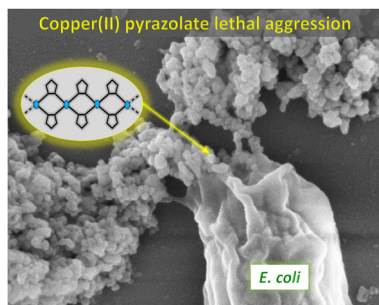
19039



### Regulating the iodine adsorption performances of two- and three-component $\beta$ -ketoenamine-linked covalent organic frameworks through tuning the proportion of monomers

Yu-Yang Wen, Zhao-Yi Dong, Xi-Hao Tang, Wei-Guang Zhang, Song-Liang Cai\* and Jun Fan\*

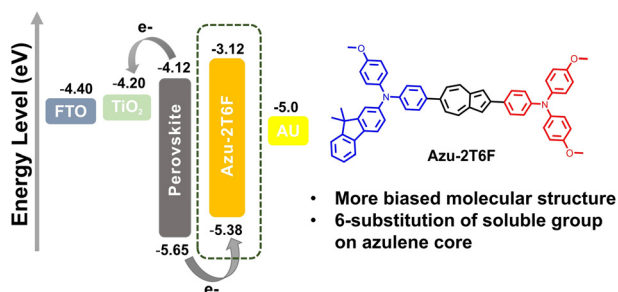
19047



### Antibacterial activity of copper pyrazolate coordination polymers

Corrado Di Nicola,\* Fabio Marchetti, Alessia Tombesi, Sonila Xhafa, Patrizio Campitelli, Marco Moroni, Simona Galli, Riccardo Pettinari and Claudio Pettinari

19057



### Peripheral substituent regulation of bias structured azulene-based hole transport materials for perovskite solar cells

Haoyu Li, Zhangyan Wang, Yuanqing Sun, Yangyang Su, Zhenxiao Zhao, Yi Tian,\* Hongping Li\* and Ming Cheng\*

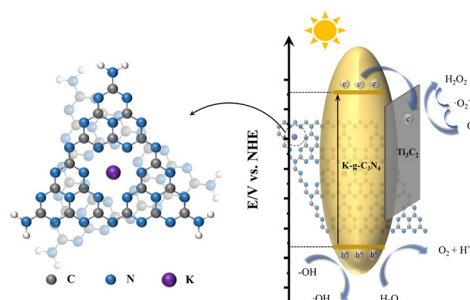


## PAPERS

19063

K-doped g-C<sub>3</sub>N<sub>4</sub> decorated with Ti<sub>3</sub>C<sub>2</sub> for efficient photocatalytic H<sub>2</sub>O<sub>2</sub> production

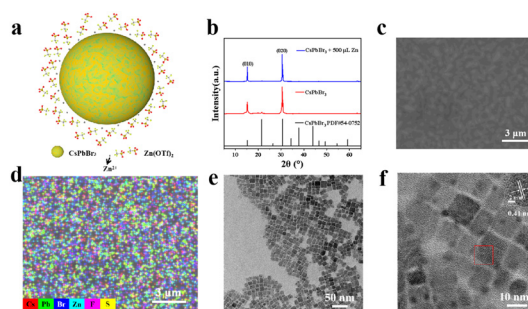
Suyu Zhou, Shaoli Cheng, Junhe Han\* and Mingju Huang\*



19077

Machine-learning-aided identification of ethanol in humid air using zinc complex capped CsPbBr<sub>3</sub> resistive sensors

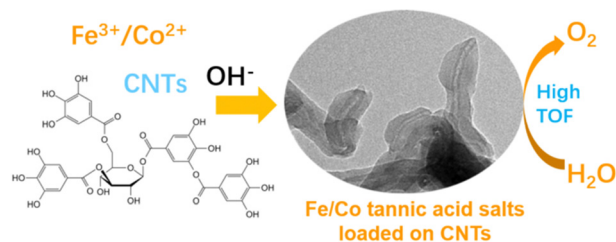
Yue Wang, Xi Wang, Hui Zhang, Shasha Gao, Wenjie Xu, Yulong Zhao, Mingzhi Jiao,\* Sheng Huang\* and Xiuquan Gu\*



19087

## Amorphous Fe/Co-based tannic acid salts as robust oxygen evolution pre-catalysts

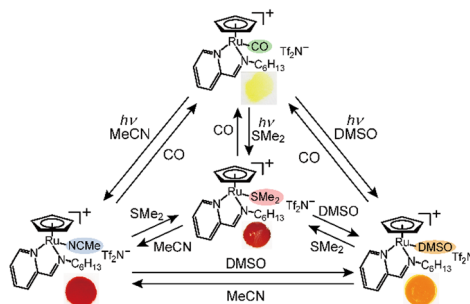
Wenjuan Zhu, Xueyang Wang, Yi Zhu, Lu Fang, Chengli Yao, Xiaoyang Song, Hu Chen, Xi Wang and Guoxing Zhu\*



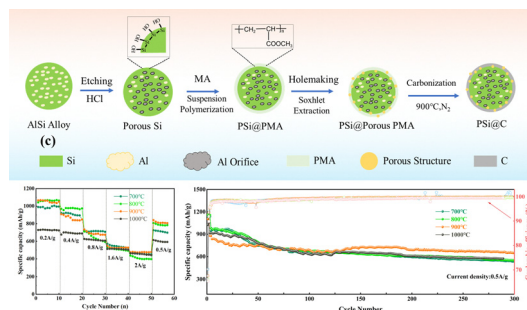
19096

Ionic liquids containing half-sandwich ruthenium complexes: *in situ* interconversions via photochemical and thermal ligand exchange

Tomoyuki Mochida,\* Syou Maekawa and Ryo Sumitani



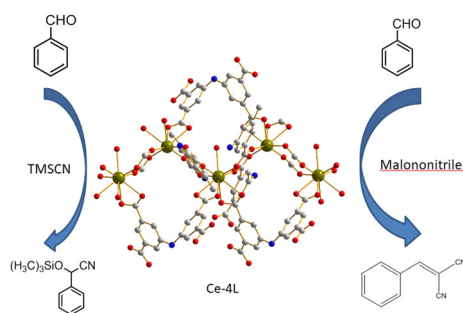
19103



### Preparation of porous silicon composite anode material coated with open pore polymethyl acrylate and its electrochemical performance as a carbon source

Simin Liao, Xiang Shi, Yefei Xu, Mengyue Liu, Nengwen Ding,\* Xiaocheng Li and Zhifeng Li

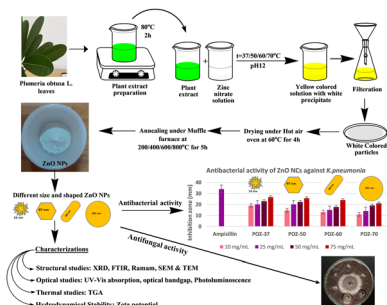
19114



### A dual-functional 3D cerium MOF heterogeneous catalyst for catalysing Knoevenagel condensation and cyanosilylation

Peiran Zhao, Yuqian Liu, Cheng He and Chunying Duan\*

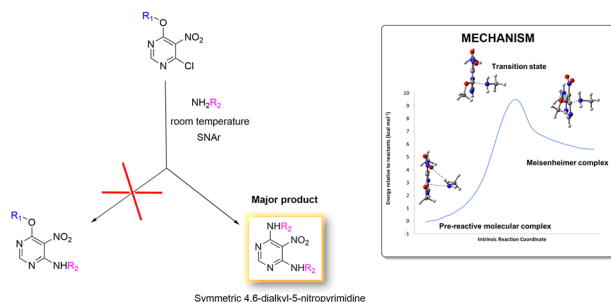
19122



### The effect of reaction and annealing temperatures on physicochemical properties of highly stable ZnO nanoparticles synthesized via a green route using *Plumeria obtusa* L.

Bibi Raza Khanam, Prachalith N. C., Basavaraj Angadi, B. Uma Reddy and Khadke Udaykumar\*

19138



### Symmetric 4,6-dialkyl/arylamino-5-nitropyrimidines: theoretical explanation of why aminolysis of alkoxy groups is favoured over chlorine aminolysis in nitro-activated pyrimidines

Laura Córdoba Gómez, Alvaro Lorente-Macias, María José Pineda de las Infantas y Villatoro, Andrés Garzón-Ruiz\* and Juan J. Diaz-Mochon\*



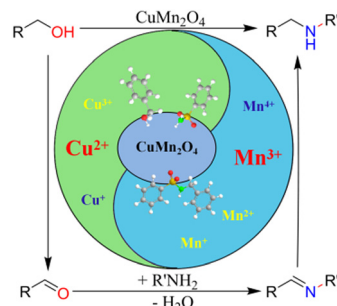


## PAPERS

19146

**N-Alkylation of substituted alcohols through self-supported mesoporous  $\text{CuMn}_2\text{O}_4$** 

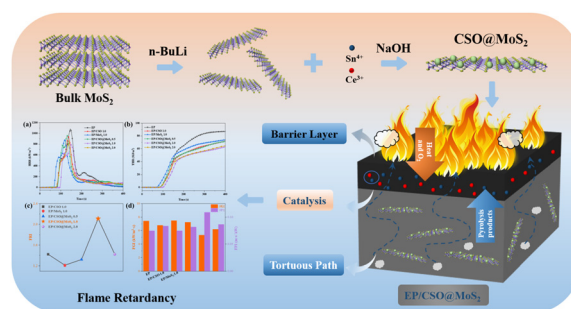
Lanyan Shou, Xue Yang, Xueting Feng, Yanqiong Wang, Kejie Chai\* and Weiming Xu\*



19155

**Rationally designed rare earth elements functionalized  $\text{MoS}_2$  nanosheets towards reducing fire hazards of epoxy resin**

Changhao Wang, Kaili Gong,\* Jianjian Luo, Lian Yin and Keqing Zhou\*



19167

**Structural diversity of three new  $\text{Co(II)}$ -based MOFs as a UV light-driven photocatalyst: photocatalytic performance**

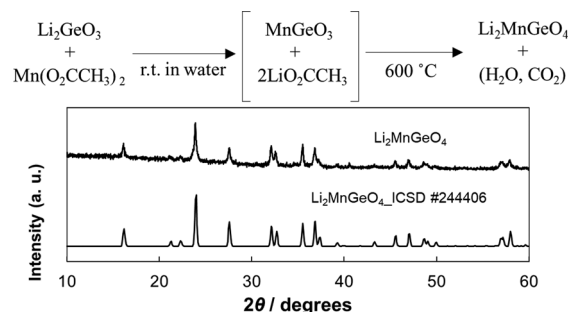
Mei-Hua Yan, Manaswini Ray, Jun Wang,\* Lu Lu, Wei Zhang,\* Mohd. Muddassir and Aurobinda Mohanty\*



19177

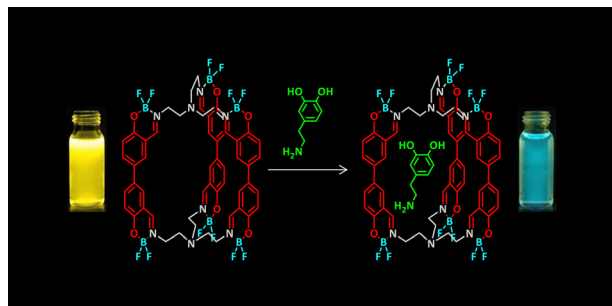
**Aqueous synthesis of  $\text{Li}_2\text{MnAO}_4/\text{C}$  ( $\text{A} = \text{Si}, \text{Ge}$ ) as positive electrode active materials for lithium-ion batteries by acid–base reaction**

Hiroshi Nagata,\* Junji Akimoto and Kunimitsu Kataoka



## PAPERS

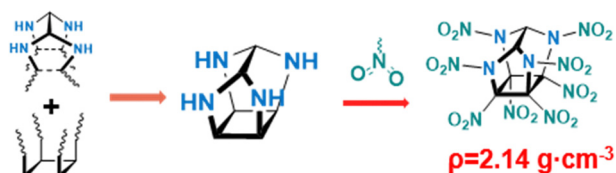
19183



### Selective naked-eye detection of dopamine using an imino-boron molecular capsule

P. P. Praveen Kumar, Ashima Bajaj, Prodipta Samadder, Md. Ehesan Ali and Prakash P. Neelakandan\*

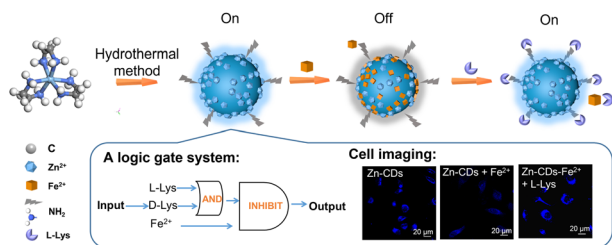
19191



### Touching the density limits of energetic materials by molecular design

Yunlu Li,\* Xinzhong Wang and Mei Xue\*

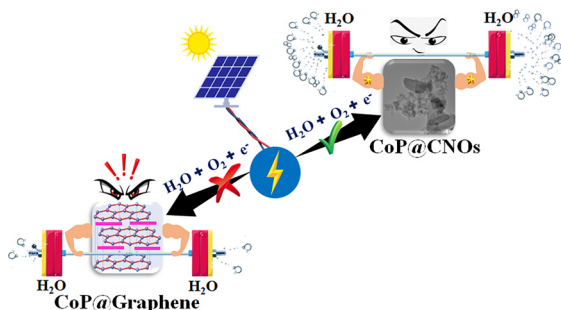
19202



### Sequential on–off–on detection of Fe<sup>2+</sup> and enantiomeric L-lysine with logic gate operation based on fluorescent carbon dots derived from a zinc–amine complex

Xinlei Zhang, Peng Liu, Yuchi Zhang, Bohan Li and Yan Xu\*

19210



### Ultrathin cobalt phosphate enfolded with biomass-derived multishelled carbon onion as a proficient electrocatalyst for the oxygen evolution reaction and its green sustainability assessments

Sundarraj Sriram, Bakthavachalam Vishnu and Jayaraman Jayabharathi\*

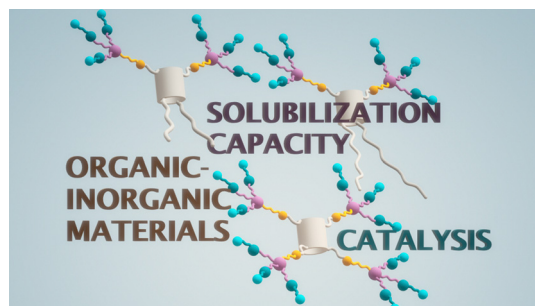


## PAPERS

19223

### Gallic acid-based dendrimers with a thiacalix[4]arene core: synthesis, aggregation and use for stabilization of Pd nanoparticles

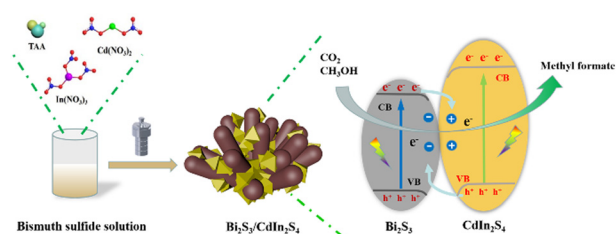
Aigul M. Fatykhova, Elza D. Sultanova, Vladimir A. Burilov,\* Bulat Kh. Gafiatullin, Angelina A. Fedoseeva, Tatyana A. Veshta, Marat A. Ziganshin, Sufia A. Ziganshina, Vladimir G. Evtugyn, Daut R. Islamov, Konstantin S. Usachev, Svetlana E. Solovieva and Igor S. Antipin



19235

### Construction of an S-scheme $\text{Bi}_2\text{S}_3/\text{CdIn}_2\text{S}_4$ heterojunction for the photocatalytic generation of methyl formate

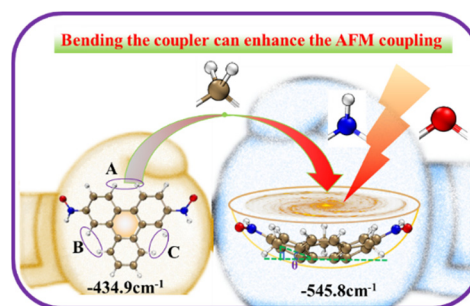
Lipeng Sun, Wenting Wu, Ruiping Wei, Lijing Gao, Jin Zhang, Guoming Xiao\* and Xiaomei Pan\*



19243

### Conjugated coupler curvature enhances magnetic spin coupling in $\pi$ -diradicals

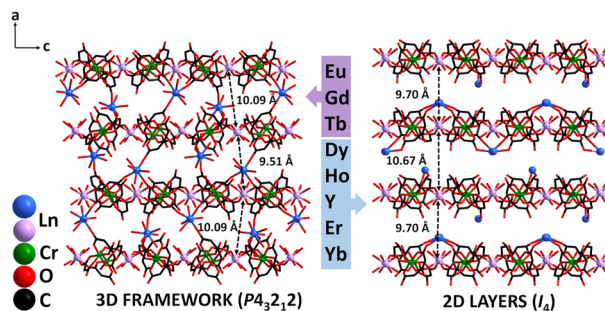
Shaofen Yu, Yamin Song, Yuxiang Bu and Xinyu Song\*



19251

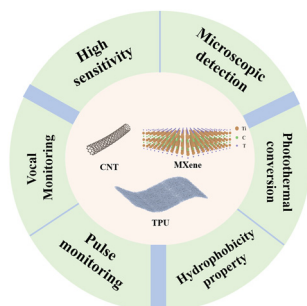
### Synthesis, structural features, magnetic properties and thermal decomposition of a new series of polymeric $\text{Ln(III)}-\text{Cr(III)}$ cyclopropane-1,1-dicarboxylates

Evgeniya S. Bazhina,\* Maxim A. Shmelev, Julia K. Voronina, Natalia A. Korotkova, Konstantin A. Babeshkin, Anna K. Matiukhina, Ekaterina V. Belova, Natalia V. Gogoleva, Sergey Yu. Kottsov, Nikolay N. Efimov, Mikhail A. Kiskin and Igor L. Eremenko



## PAPERS

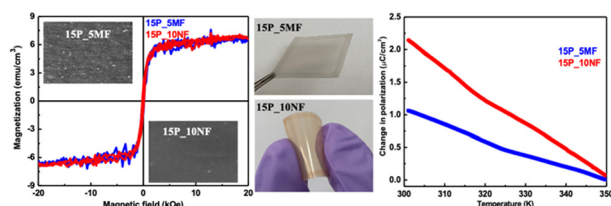
19265



### A multifunctional flexible strain sensor based on an excellent sensing performance PDMS-MXene@CNT/TPU nanofiber membrane with hydrophobic and photothermal conversion performance

Junjie Xiao, Jingqiang He, Weijie Wang, Meimei Chen and Ronghui Guo\*

19276



PVDF/Ferrite composite films on flexible substrate for pyroelectric energy conversion

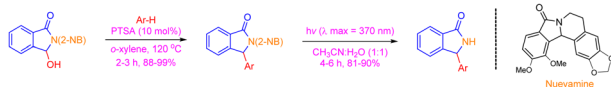
### Studies on PVDF/ferrite composite films on flexible substrates for pyroelectric energy conversion

Achal Bhiogade, Katragadda Nagamalleswari, Pranab Mandal\* and Vengadesh Kumara Mangalam Ramakrishnan\*

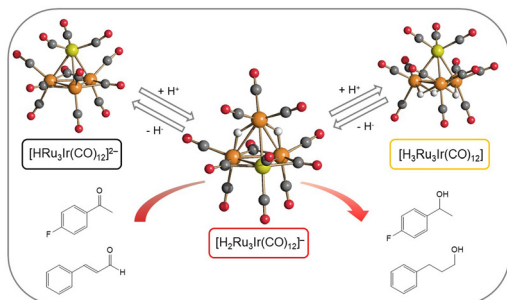
19283

### C(3)-Aryl isoindolinones: a PTSA-mediated access and improved synthesis of (±)-nuevamine

H. Surya Prakash Rao\* and Prabhakaran J



19289



### Heterometallic Ru–Ir carbonyl clusters as catalyst precursors for hydrogenation and hydrogen transfer reactions

Francesca Forti, Cristiana Cesari,\* Marco Bortoluzzi, Cristina Femoni, Maria Carmela Iapalucci and Stefano Zacchini

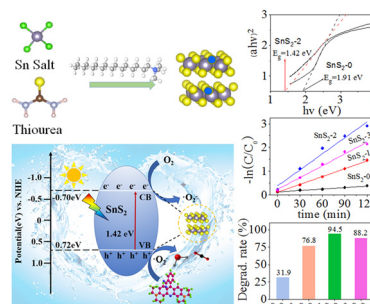


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19304

## Engineering crystal planes and band structure of 2D tin sulfide nanosheets and investigating their photocatalytic degradation performance

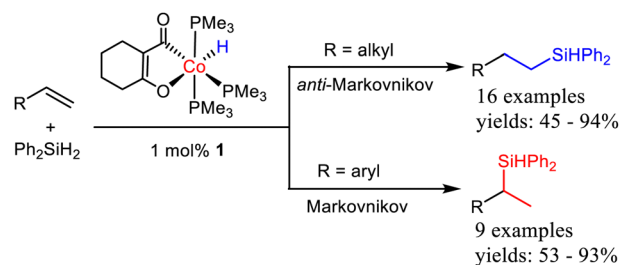
Zhixin Jia, Xiaofeng Shuai, Ruihua Zhao and Jianping Du\*



19314

## Distinct selective alkene hydrosilylation catalyzed by acylenalato cobalt hydrides

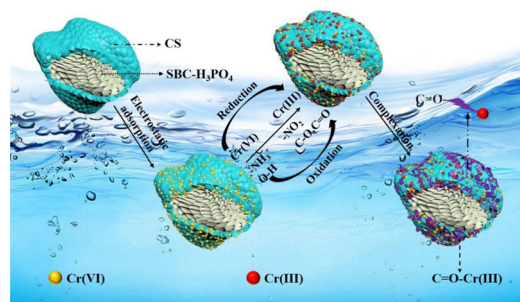
Xin Wang, Xiaoyan Li and Hongjian Sun\*



19320

A novel sludge-based biochar composite adsorbent CS/SBC-H<sub>3</sub>PO<sub>4</sub> for efficient Cr(VI) removal from aqueous solution

Hui Wang, Dengjie Zhong,\* Yunlan Xu and Pengfei Liao



19330

Highly efficient oxidative removal of thiophene at ambient temperature over synthetic MnO<sub>2</sub>/zeolite nanocomposites

Zahra Chenari, Maasoumeh Khatamian\* and Azin Yavari

