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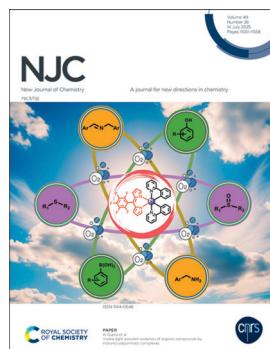
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Themed collection: 12th International Mesostructured Materials Symposium (IMMS12)

Peter Hesemann and Bao-Lian Su

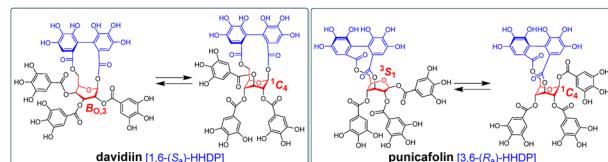


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Conformationally flexible ellagitannins: conformational analysis of davidiin and punicafolin by DFT-based ^1H – ^1H coupling constant calculations

Yosuke Matsuo,* Misato Iki, Chiho Okubo,
Yoshinori Saito and Takashi Tanaka





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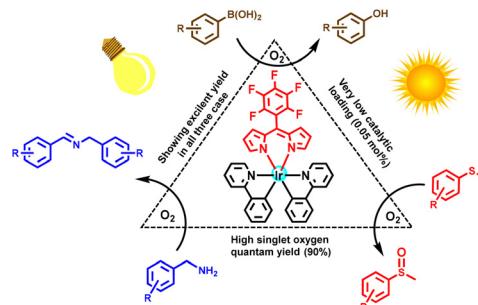
Fundamental questions
Elemental answers

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Visible light assisted oxidation of organic compounds by iridium(III)dipyrinato complexes

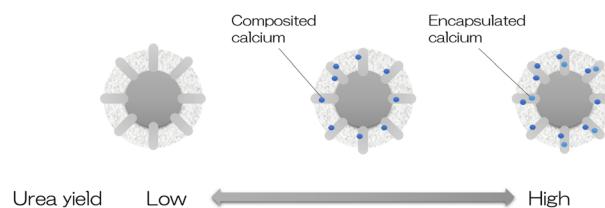
Shekhar Kumar, Lalita Devi and Iti Gupta*



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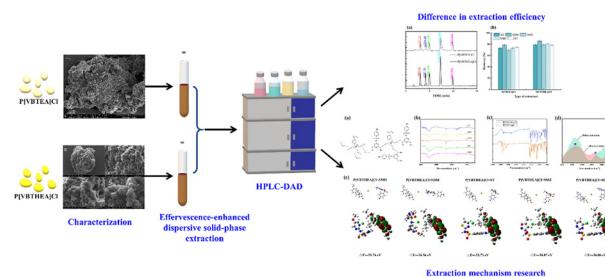
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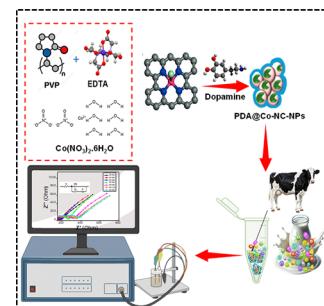
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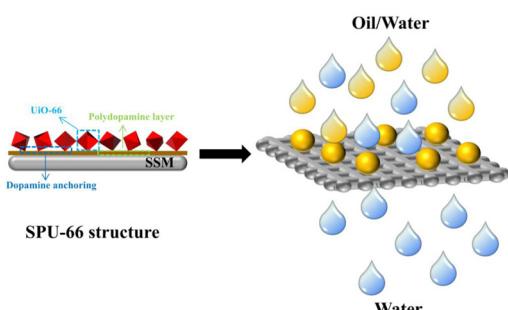
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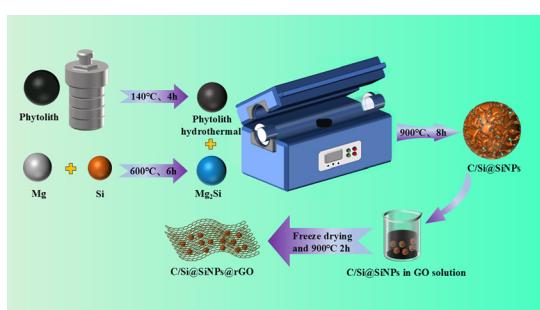
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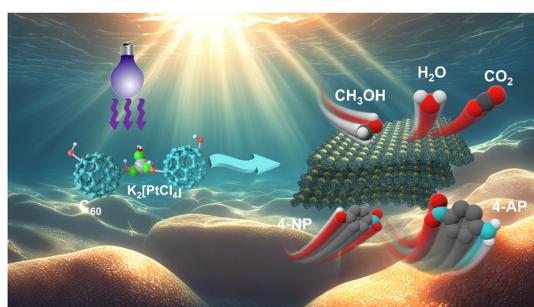
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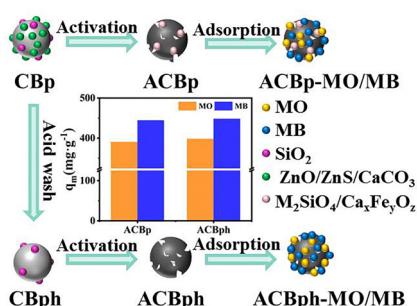
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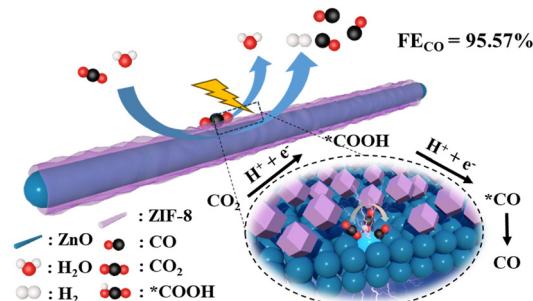


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ZIF-8-regulated ZnO facilitates the efficient electrocatalytic CO_2 reduction to CO

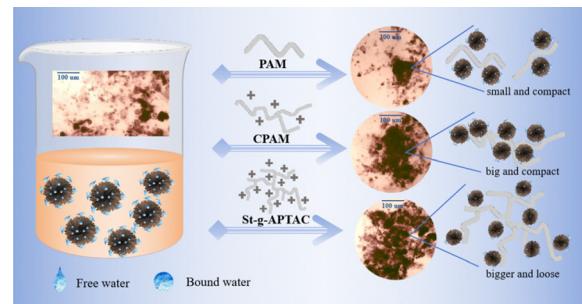
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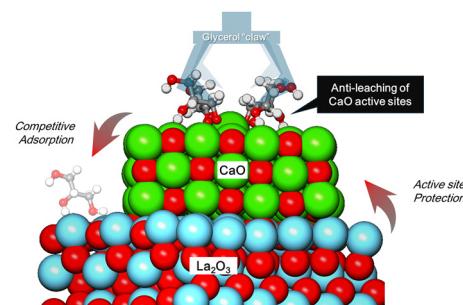
Xiaotian Wang, Yulu Luo, Huakun Ying and Jiangli Lin*



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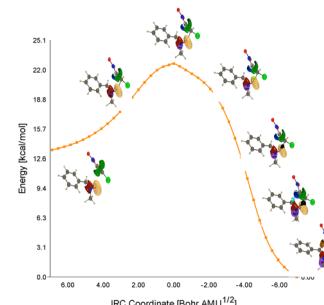
Junying Fu, Gaixiu Yang, Min Lu, Kejing Fang, Pengmei Lv* and Zuhong Xiong*



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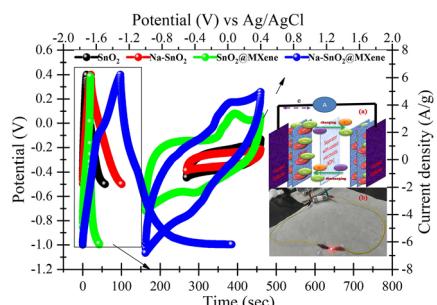
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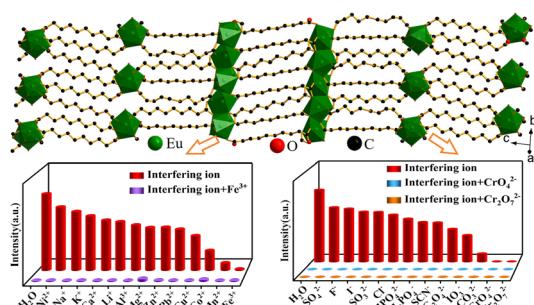
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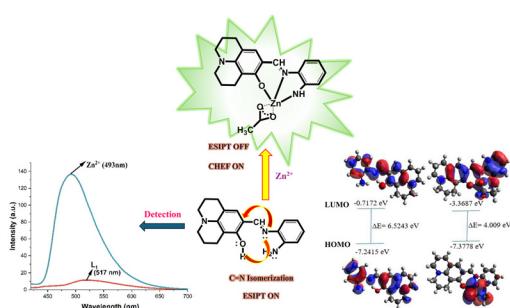
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Priyamvada Kumari, Narayan Sahoo, Neha Kumari, Minati Baral and Arun Kumar Padhy*

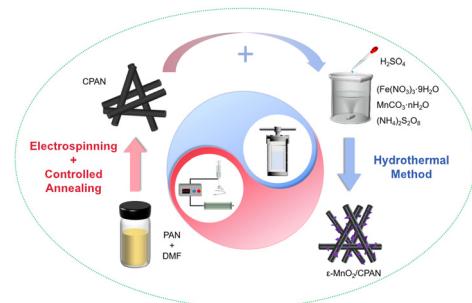


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3D ε -MnO₂/electrospun carbon fiber cathodes for aqueous zinc-ion batteries

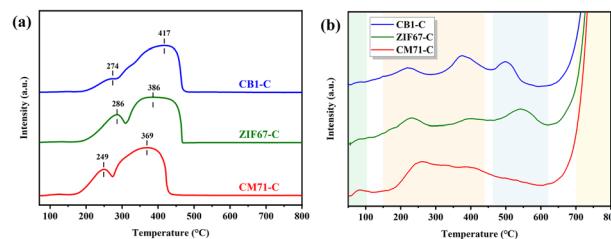
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Enhancement of the catalytic performance of Co₃O₄ towards butyl acetate oxidation by weakening the Co–O bond and promoting oxygen activation

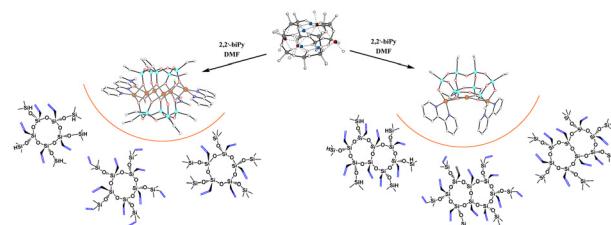
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Inga V. Frank, Albina R. Shakirova, Alexander S. Peregudov, Fedor M. Dolgushin, Olga I. Shchegolikhina and Anton A. Anisimov*



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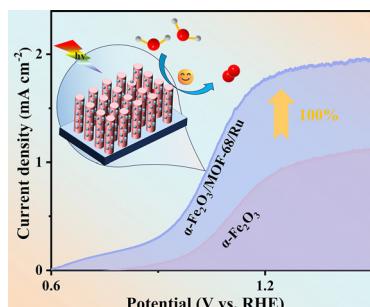
HOTf-catalyzed dehydrative coupling reaction of 3-hydroxyisoindolinones with alkyl ketones

Kai-Cheng Yang, Lian Liu, Ai-Qiong Jia, Jun-Feng Deng* and Long Chen*



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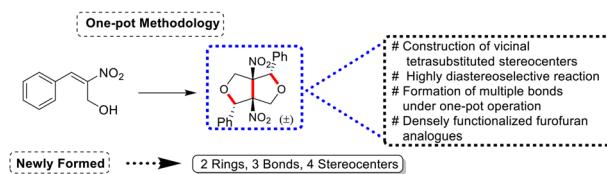
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Engineering Ru-anchored metal–organic frameworks in hematite photoanodes for efficient photoelectrochemical water oxidation

Kaidi Wu, Lin Huang, Xin Song, Dongxu Han, Yuhua Guo, Xinling Zhang, Liguang Yang, Yong Zheng, Zhongyuan Zhou* and Yunchang Fan*

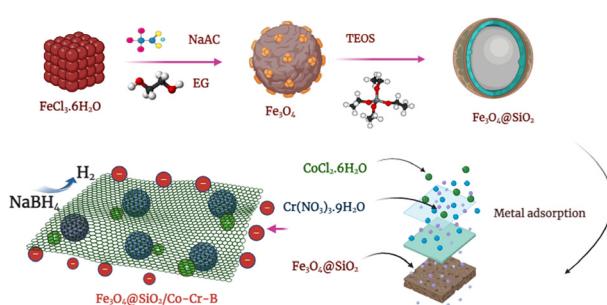
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A concise and highly diastereoselective one-pot synthesis of vicinal tetrasubstituted furofuran analogues

Chinnaiyah Sneka, Balasubramaniyam Manikandan, Subbiah Thamotharan, Olivier Blacque and Subramaniapillai Selva Ganesan*

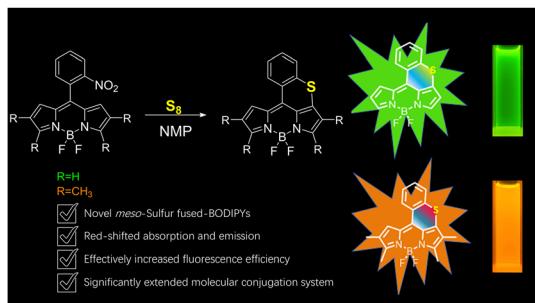
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A novel core–shell Fe₃O₄@SiO₂/Co–Cr–B magnetic catalyst for efficient and reusable hydrogen evolution from NaBH₄ hydrolysis

Houssem Lakhali, Ömer Şahin and Ayhan Abdullah Ceyhan*

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Sulfur-bridged annulated BODIPYs: synthesis, structure and photophysical properties

Yongli Zhang, Xiong Fu, Jie Li, Kaiwen Guo, Hanyu Wen, Tingting Guo, Xiangguang Li,* Yanhua Yang* and Shulin Gao*

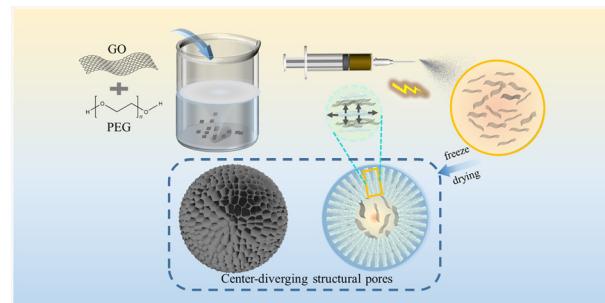


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PEG/GO phase-change composite aerogel microspheres with highly ordered center-diverging microchannels for the efficient thermal management of electronic devices

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A novel approach for non-enzymatic determination of urea via a screen-printed electrode prepared with a conductive ink containing graphene and nickel oxide

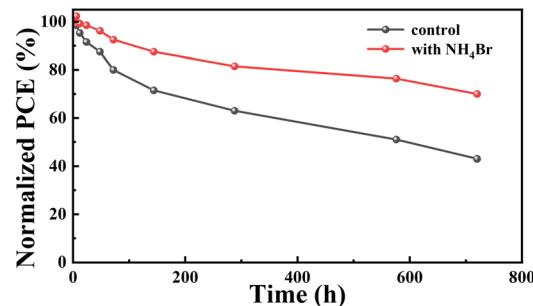
Rabianur Kurteli, Ebrar Dokur, Selen Uruc, Ozge Gorduk and Yucel Sahin*



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Enhancement of perovskite solar cell performance in ambient air through NH₄Br incorporation: improved film quality and open-circuit voltage for nanorod-based devices

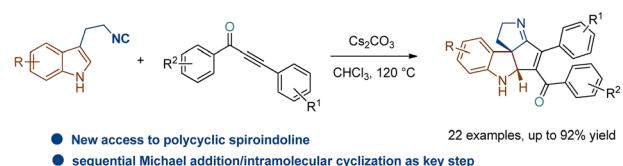
Jiandong Yang, Chunxiao Wang, Xinyu Wang, Jun Wang, Zhenyu Yang, Mingguan Wei, Fen Lin, Wenhui Zhang, Haibin Yang and Wuyou Fu*



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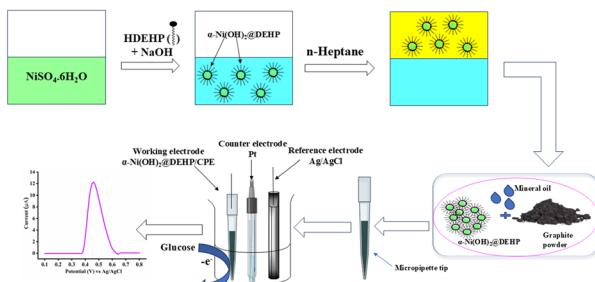
Diastereoselective reaction to construct polycyclic spiroindolines from 3-(2-isocyanoethyl)indoles and yrones

Demin Liang, Da Wu, Jie Shen, Shanya Lu, Jiale Wang, Xiaodong Yan* and Jian Li*



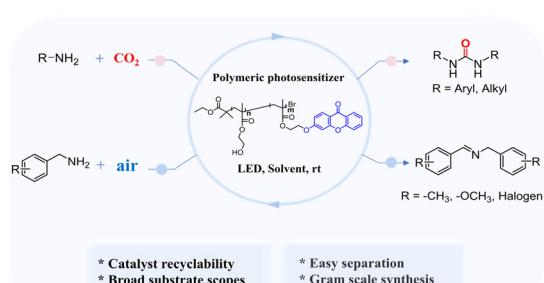
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 **$\alpha\text{-Ni(OH)}_2@\text{DEHP}$ nanoparticles for the fabrication of a non-enzymatic electrochemical glucose sensor**

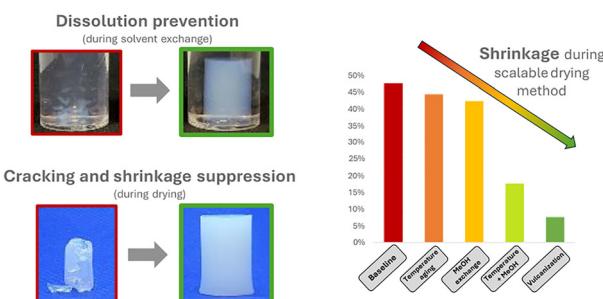
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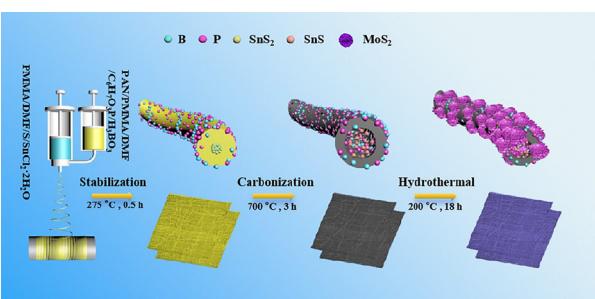
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**VTMS-based aerogel structure preservation: the influence of the sol-gel synthesis composition, aging process, and double-crosslinking**

Aleksandra M. Pisarek,* Bartosz Nowak, Ryszard Jobda and Jakub M. Gac

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**MoS₂/SnS@B, P-doped hollow multi-channel carbon fibers for lithium-ion batteries**

Yujie Wang, Panpan Ding, Fan Zhang, Minglei Wang* and Anqi Ju*

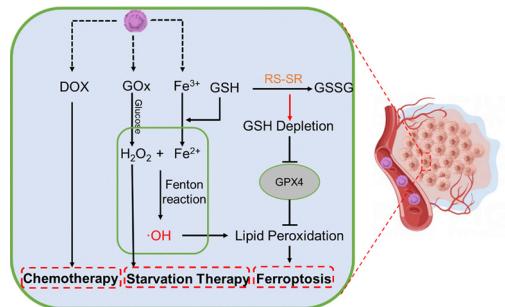


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A pH/GSH dual-responsive Fe-based MOF drug carrier for ferroptosis-glycolysis synergistic therapy

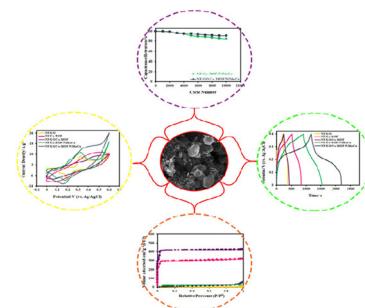
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Electrochemical study of graphene oxide-integrated Co-MOF/trimetallic hydroxide nanostructures for next generation supercapacitor applications

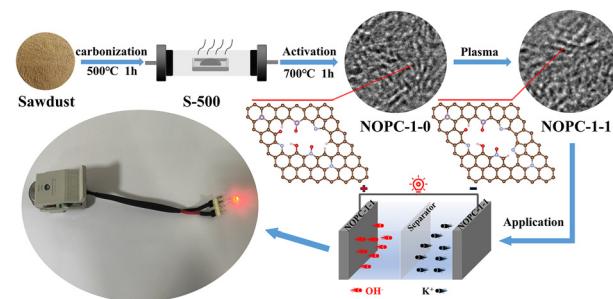
Eman A. Alabdulkarem and Junaid Khan*



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Sawdust-based N, O and P co-doped porous biochar for high-performance supercapacitors

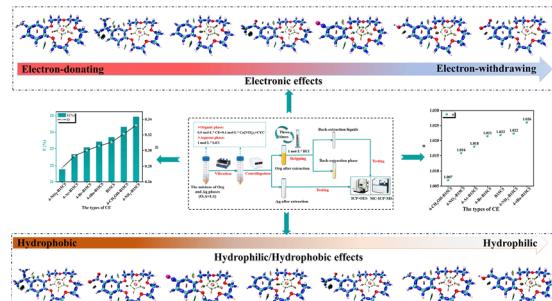
Zongjin Wu, Xiaojing Wang, Dailiu Hu, Nian He, Liangliang Zhao, Chaochuang Yin, Hongyan Pan,* Zheng Chen* and Qian Lin*



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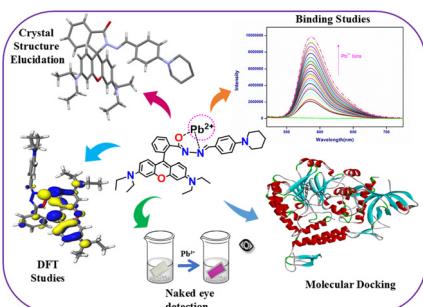
Selective extraction of lithium isotopes using B15C5 derivatives modified with different groups: experimental and theoretical perspectives

Lianjing Mao, Xiao Li, Pengrui Zhang, Wei Sun, Tianyu Zheng, Chunsen Ye and Jinhe Sun*



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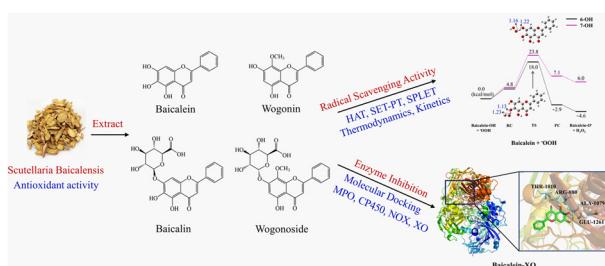
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Multifunctional rhodamine Schiff base sensor for Pb^{2+} : fluorogenic switching, reusability, and structural elucidation through spectroscopic and molecular simulation

Ram Kumar, Bholey Singh,* Rita Kakkar and Balaram Pani*

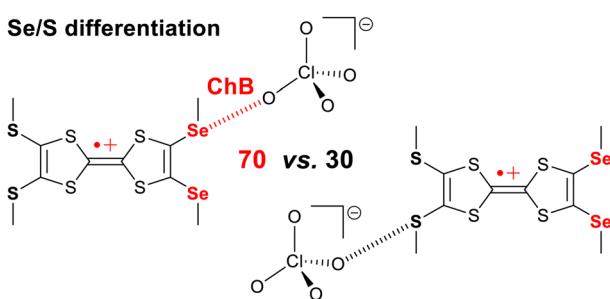
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Antioxidant potential of four flavonoids from *Scutellaria baicalensis*: a computational investigation on radical scavenging activity and enzyme inhibition

Xiao-Qin Lu,* Pengcheng Ren, Shu Qin, Jindong Li and Xiao-Ni Zhao

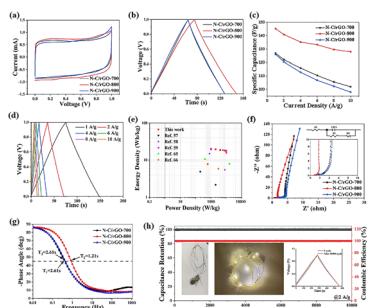
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Activation of chalcogen bonding in tetrathiafulvalene derivatives with Se/S differentiation

Maxime Beau, Ie-Rang Jeon,* Olivier Jeannin, Thierry Guizouarn and Marc Fourmigué*

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Nitrogen-doped coal-based porous carbon and reduced graphene oxide composites for high-performance symmetrical supercapacitors

Hongze Zhu, Fuyang Ren, Haoran Pan, Lu Tian, Tao Wang, Jianglong Yu, Jinxiao Dou,* Dongling Wu* and Xingxing Chen*

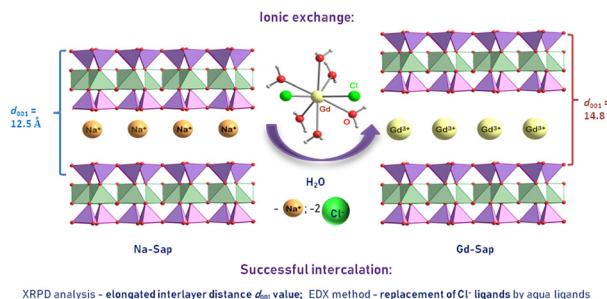


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Gadolinium chloride hexahydrate and its intercalation into synthetic saponite: structure, characterization and slow magnetic relaxation of the intercalated sample

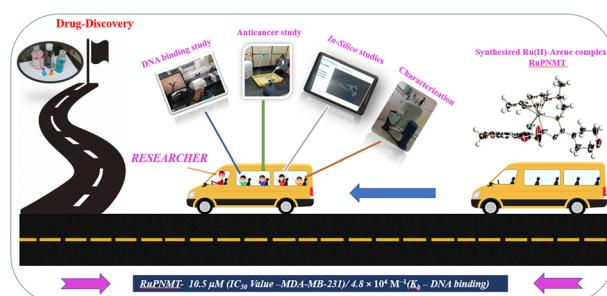
Lenka Krešáková,* Róbert Tarasenko, Martin Orendáč, Hryhorii Titikov, Erik Čižmár, Juraj Kuchár, Juraj Černák, Ľuboš Jankovič and Jana Madejová



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Functionalized nitro-piperonal thiosemicarbazone based ruthenium(II)-arene complexes for DNA interaction, anticancer and flow cytometry studies

Vishnunarayanan Namboothiri Vadakkedathu Palakkeezhillam, Jebiti Haribabu, K. S. Karthik, Vaishnu Suresh Kumar, Vipin Manakkadan, Puthiyavalappil Rasin, Mohith Garg, Arunachalam Arulraj, Daniel Moraga and Anandaram Sreekanth*



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Catalytic selectivity in hexafluoropropylene trimerization using tailored nucleophilic ionic liquids

Huiyao Yang, Bingxi Song, Peihong Zhang, Qijie Zhu, Fu Ding, Yaofeng Wang, Guliang Liu, Yanyan Diao and Hongyan Wang*

