

Dalton Transactions

An international journal of inorganic chemistry incorporating Acta Chemica Scandinavica
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IN THIS ISSUE

ISSN 1477-9226 CODEN DTARAF 55(16) 6225-6636 (2026)



Cover
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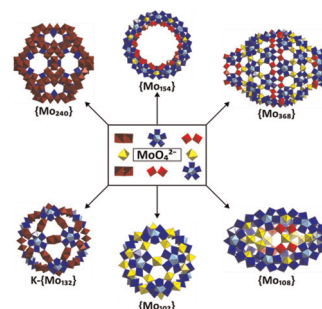
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TUTORIAL REVIEW

6237

Spontaneous assemblies of gigantic polyoxomolybdates; from structure and properties to synthetic methods

Vishal Lakhanpal, De-Liang Long and Leroy Cronin*

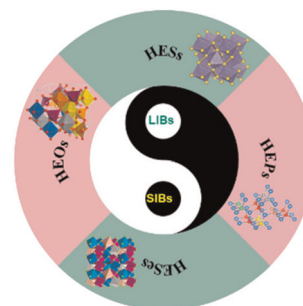


PERSPECTIVE

6253

Recent advances in high-entropy metal sulfides, selenides, and phosphides for use in lithium/sodium-ion batteries

Chen Sun, Yingzhe Gong, Yukun Zhang, Shaopeng Zheng, Xiao Zhang* and Jinxue Guo*



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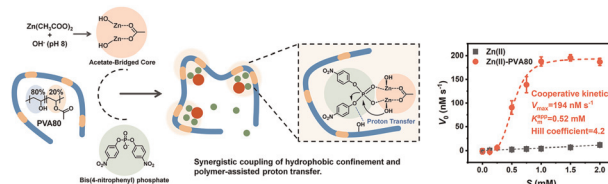
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COMMUNICATIONS

6270

Minimalist second-sphere engineering with polyvinyl alcohol drives cooperative hydrolysis in Zn(II) system

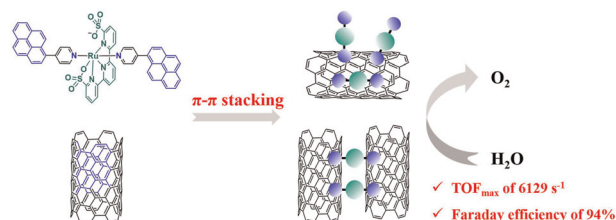
Tong Zhang and Lei Ye*



6276

Highly efficient heterogeneous water oxidation of a Ru^{II} disulfonic acid terpyridine complex on carbon nanotubes *via* π - π interactions

Xiao Guo, Jian Li, Xinghua Guo, Yuzhuo Sun, Bo Chen* and Degao Wang*

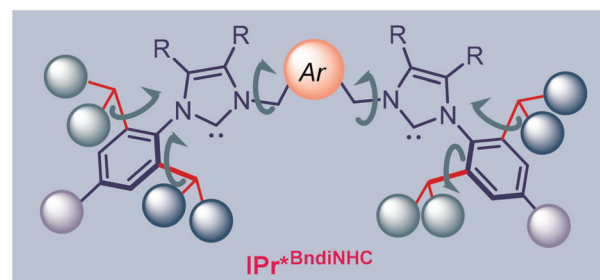


PAPERS

6282

IPr^{*}BndiNHC – sterically adaptable benzyl-linked dinuclear N-heterocyclic carbenes

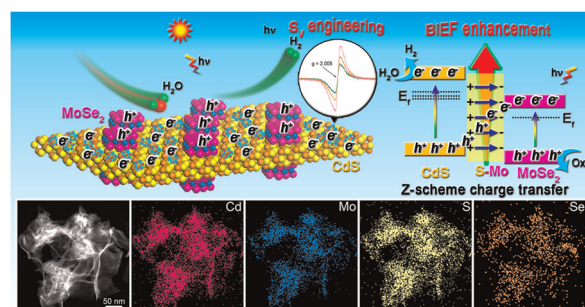
Katarzyna Halikowska-Tarasek, Błażej Dziuk, Roman Szostak, Michał Szostak* and Elwira Bisz*



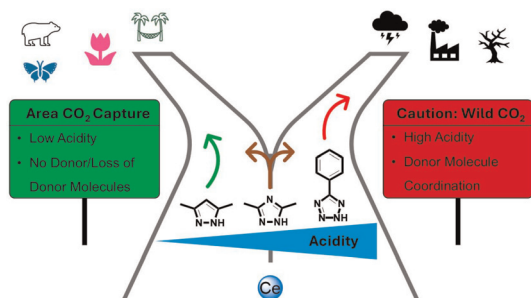
6294

S-vacancy-mediated efficient Z-scheme photocatalytic H₂ generation on an ultrathin nanosheet-based 2D/2D tight heterojunction

Li Zeng, Li Wang, Lei Xu, Ping Li, Vladimir Turkevich, Yanyan Li, Jixiang Xu,* Lei Wang and Haifeng Lin*



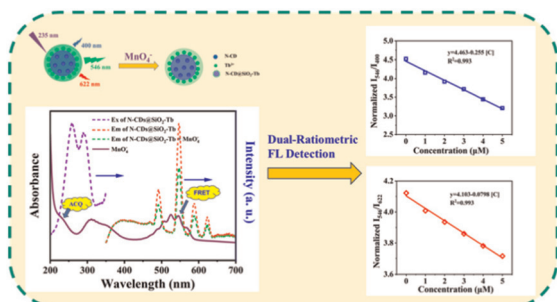
6302



CO₂ uptake potential of cerium(III) triazolates and tetrazolates

Jonas Riedmaier, Căcilia Maichle-Mössmer and Reiner Anwänder*

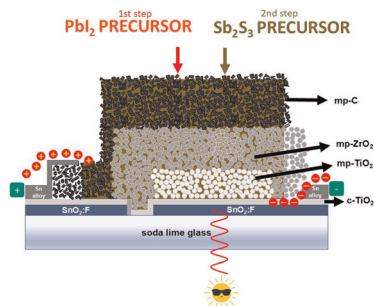
6312



Preparation of a carbon quantum dot-embedded silica microsphere/terbium composite for dual-ratiometric fluorescence detection of MnO₄⁻ ions

Bo Duan, Shuting Guo, Qingzhong Guo,* Jiangyu Wu and Junfang Guo*

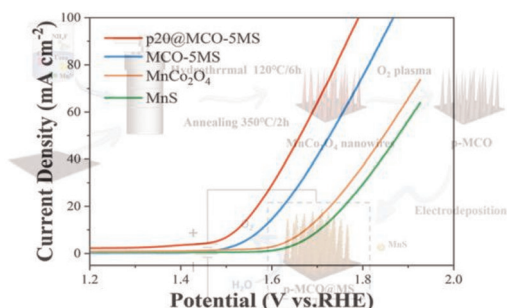
6322



Fully printable Sb₂S₃-based mesoscopic triple-stack solar cells: the influence of infiltration chemistry

Martín Faúndez, Patricia Díaz, Gonzalo Riveros, Rodrigo Wittwer, Francisco Martín, Enrique Dalchiale, Beatriz Heredia-Cervera, Mahmoud Nabil, Gerko Oskam, Renan Escalante* and Daniel Ramírez*

6336



Synergistic structural engineering of hierarchically porous MnCo₂O₄@MnS nanowire arrays for oxygen evolution catalysis

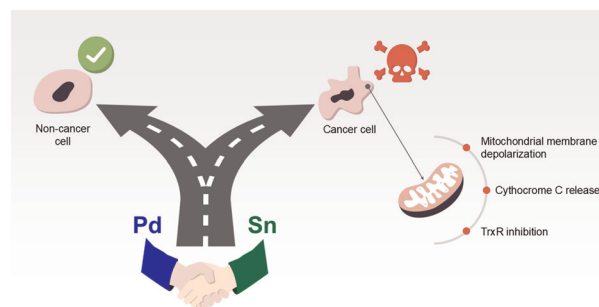
Xinyu Shi, Chonger Chen, Zhongxin Song, Lei Zhang, Qianling Zhang, Xiangzhong Ren and Yongliang Li*



6351

Insertion of SnCl_2 into the Pd–Cl bond: mechanistic elucidation and antitumor evaluation of trichlorostannyl palladium–NHC allyl complexes in ovarian cancer models

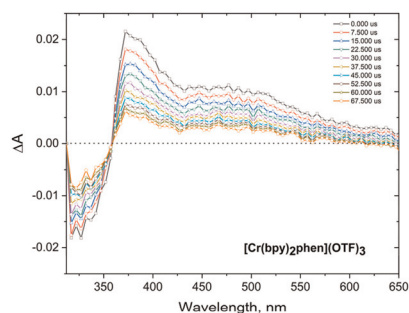
Eleonora Botter, Valentina Lauteri, Alessandro Rubbi, Laura Orian, Matteo Forner, Valentina Gandin, Nicola Demitri, Vincenzo Canzonieri, Flavio Rizzolio, Enrico Cavarzerani,* Fabiano Visentin* and Thomas Scattolin*



6373

The role of exciplex charge-transfer character and reorganization energy in steering oxygen-quenching pathways of chromium(III) excited states

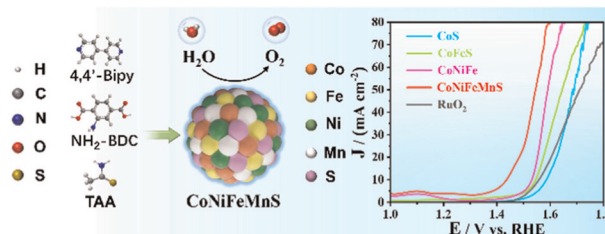
Aya S. I. Amer, Ahmed Alazaly, Mahmoud A. El-Jemni, Hamdy H. Hassan, Hesham S. Abdel-Samad and Ayman A. Abdel-Shafi*



6390

Mn-incorporated high-entropy quaternary sulfide CoNiFeMnS for efficient electrocatalytic oxygen evolution reaction

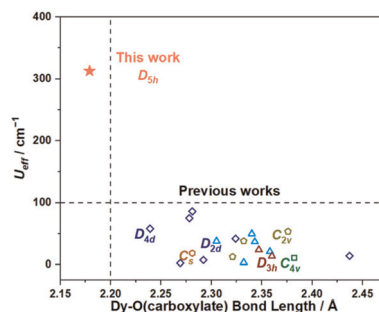
Zhuo Wang, Siru Chen,* Guoqun Liu,* Shuyue Wang, Laidong Li, Yinghua Li, Xingxing Gao, Jing Chen, Wenjie Yang and Yu Yang



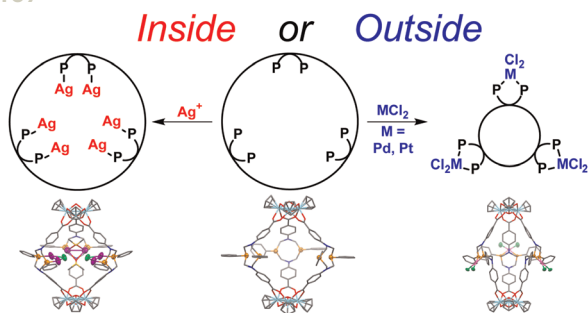
6398

Strongly axial monodentate carboxylate for dysprosium single-ion magnets

Tao-Xiao Wen, Jia-Chuan Liu, Yan-Cong Chen, Shan-Nan Du, Si-Guo Wu, Wei Deng,* Jun-Liang Liu* and Ming-Liang Tong



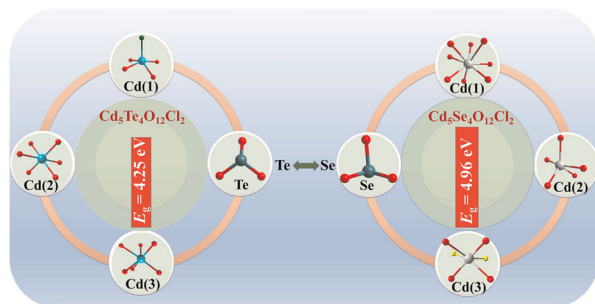
6407



In or out? Adaptive metal binding by a diphosphine-based Zr metal–organic cage

Jiehye Shin and Casey R. Wade*

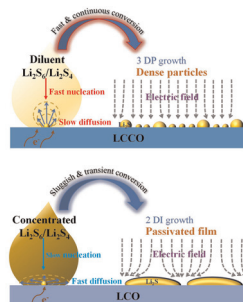
6415



Te–Se replacement induced structural transition and enhanced band gaps in $\text{Cd}_5\text{Se}_4\text{O}_{12}\text{Cl}_2$ and $\text{Cd}_5\text{Se}_4\text{O}_{12}\text{Br}_2$

Maqsood Iqbal, Jiazheng Zhou, Aqsa Munawar, Juanjuan Lu and Junjie Li*

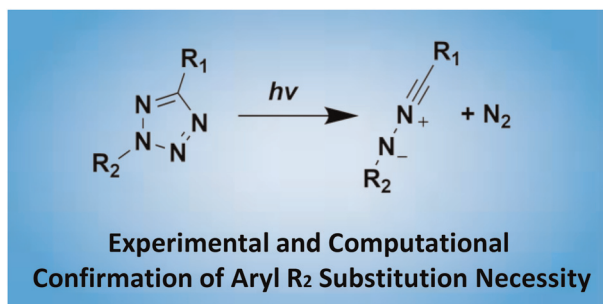
6423



Low-valent cation substitution engineering regulates Li_2S durable electrodeposition in practical lithium–sulfur batteries

Jiyang Tian, Jiajun Wan, Qian Zhang,* Huibo Zhang and Jie Liu*

6433



A combined computational and experimental study of nitrilimines generated from 2,5-substituted tetrazoles

Michael Thoenen, Aleksa Milosavljevic, Paul Wenthold and Davin Piercey*

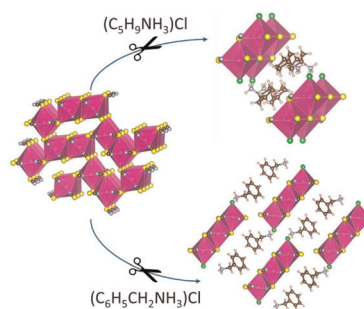


PAPERS

6441

Structural design principles for hybrid cadmium thiocyanate-halides containing bulky organic cations

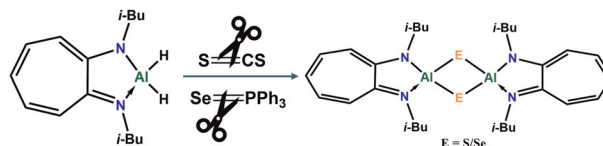
Alexander Milder and Patrick M. Woodward*



6453

Aluminum dihydride from E(IV) precursors (E = Si, Ge) and its bond-activation reactivities

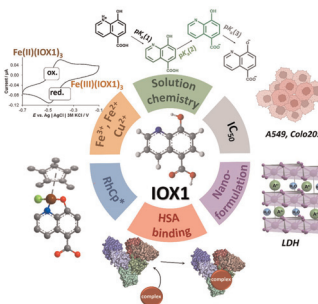
Hemant Kumar, Steven P. Kelley, Tanya Batra, Selvarajan Nagendran and Justin R. Walensky*



6462

Interactions of IOX1, a histone demethylase inhibitor, with essential metal ions, albumin, and its clay-based nanoformulation

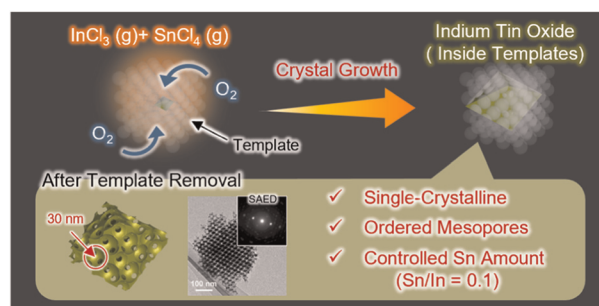
Hilda Kovács, Orsolya Dömötör, Anett Giricz, Nóra Igaz, Krisztina Szőke, Csenge Bocz, Mónika Kiricsi, Adél Szerlauth, Réka Ormos, István Szilágyi and Éva A. Enyedy*



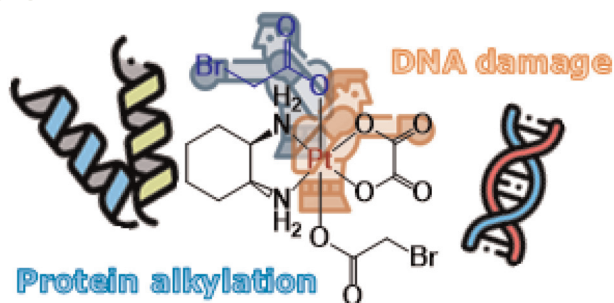
6480

Single-crystalline ordered mesoporous indium tin oxides with controlled Sn/In ratio via vapor-phase oxidation of metal chlorides within silica colloidal crystals

Tomohiro Okita, Ryoma Uchida, Atsushi Shimojima and Takamichi Matsuno*



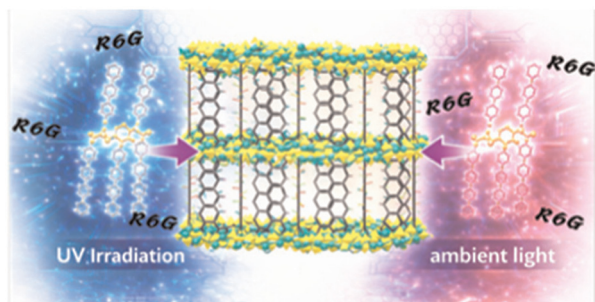
6487



Engineering oxaliplatin(IV) prodrugs with monohaloacetates for redox-responsive and multimodal anticancer activity

Francesca Binacchi, Martina Porco, Tiziana Funaioli, Rebecca Sodano, Paolo Paoli, Iogann Tolbatov, Alessandro Marrone, Damiano Cirri,* Chiara Gabbiani and Alessandro Pratesi*

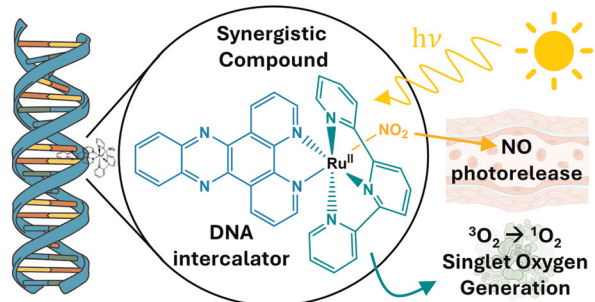
6503



Nanoscale layer-separated zincophosphate framework enabled by dual-mode aromatic pillar engineering for selective luminescent dye detection

Jia-Yi Jian, Pi-Chen Wei, Kai-Chi Chang, Chun-Ru Hsu, Ching-Ping Lu and Chih-Min Wang*

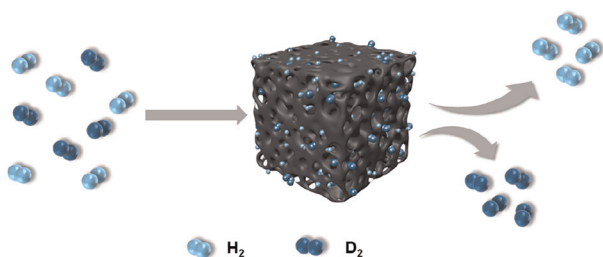
6510



Synergistic properties of biological interest of a ruthenium(II) compound

Renan R. Bertoloni, Hugo E. Barbosa, Alexia M. Silva, Amanda B. Becceneri, Roberto S. da Silva, Bernardo A. Iglesias, Claudia Turro and Sofia Nikolaou*

6523



MOF-derived hierarchical nanoporous carbons for improved hydrogen isotope separation

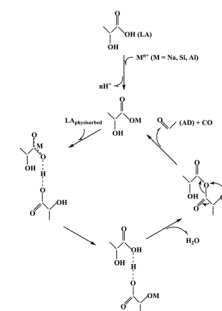
Jiyu Zhu, Xinlu He, Zhu Zhuo, Wenjing Wang* and Daqiang Yuan*



6530

Studies on the pathways of the heterogeneous catalytic decarboxylation of lactic acid to acetaldehyde

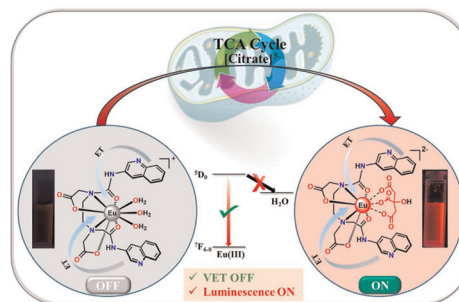
Lin Huang,* Chuan Wang, De Sheng Theng and Lili Zhang



6545

Rational design and evaluation of the sensing mechanism of a europium(III)-based luminescent turn-ON chemosensor for citrate

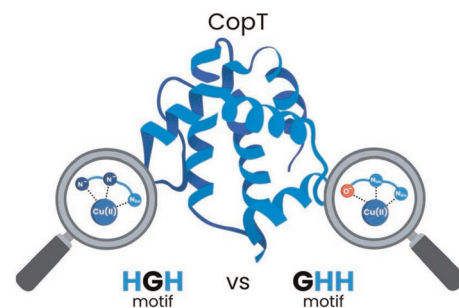
Ashwini Kumari Shaw, Nitin Shukla and Ashis K. Patra*



6558

From cysteines to histidines – chemically distinct Cu(II)-binding motifs in the C-terminal region of archaeal CopT regulators

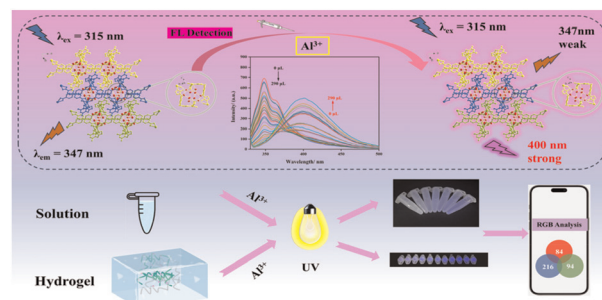
Wojciech Lizak, Klaudia Kłopotowska, Arian Kola, Daniela Valensin and Aleksandra Hecel*



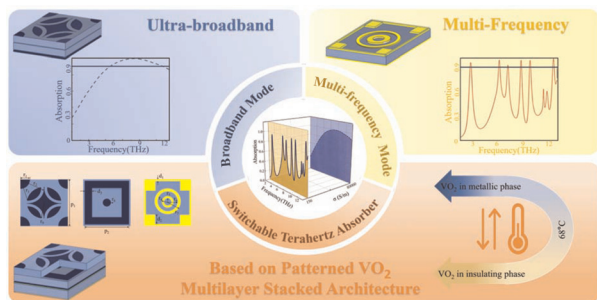
6572

A dual-mode MOF sensor for Al³⁺ detection based on ratiometric fluorescence red-shift and portable hydrogel and smartphone-based analysis

Yun Cao, Mengting Zhao, Yuxuan Zhang, Chunyin Ye, Junuo Zhang and Yan Wang*



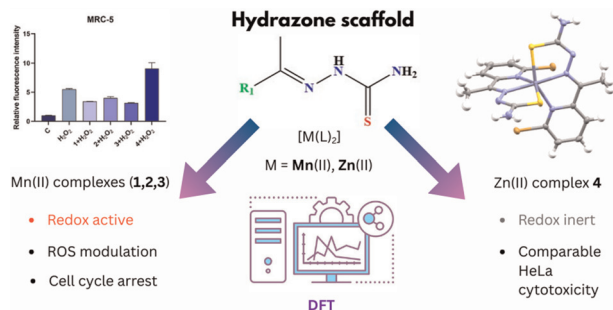
6587



An ultra-broadband and multi-frequency switchable terahertz absorber based on a patterned VO₂ multilayer stacked architecture

Shaokun Hu, Junliang Yao* and Zhen Cui

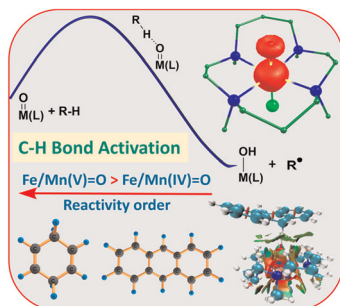
6603



Comparative biological activity of manganese(II) and zinc(II) hydrazone complexes

Milica Savić, Andrej Pevec, Irena Novaković, Ivana Z. Matić, Tatjana Stanojković, Matija Zlata, Maja Gruden* and Božidar Čobeljić*

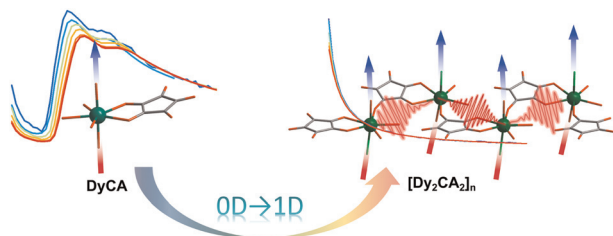
6615



Computational insights into the role of oxidation state in C–H activation by high-valent iron and manganese oxo oxidants

Mukhtar Ahmed, Sunita Srivastava, Ranjan Kumar Mohapatra, Monika,* Mursaleem Ansari,* Manoj Kumar Gupta* and Azaj Ansari*

6628



Programming magnetization dynamics in a Dy–croconic acid system

Yue Yang, Xue-Ying Shao, Jian-Xu Pan, Xiao-Fang Dong, Shen Wang, Yulu Liang, Yi-Quan Zhang,* Yu-Xia Wang* and Peng Cheng*

