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See Tetsuro Kusamoto *et al.*, pp. 2265–2270.

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See Nial J. Wheate *et al.*, pp. 2199–2208.

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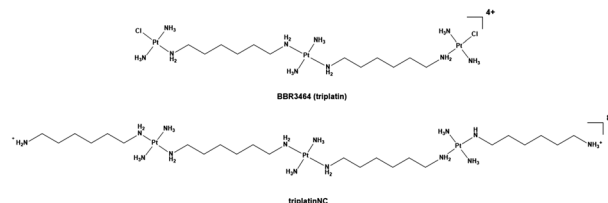
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What happened to BBR3464 and where to from here for multinuclear platinum-based anticancer drugs?

Mia A. Tesoriero and Nial J. Wheate*



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Push–pull effect – how to effectively control photoinduced intramolecular charge transfer processes in rhenium(i) chromophores with ligands of D–A or D– π –A structure

Katarzyna Choroba*, Joanna Palion-Gazda, Anna Kryczka, Ewa Malicka and Barbara Machura*



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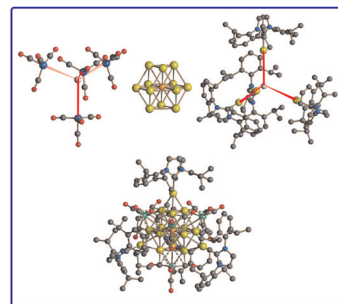
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Surface decorated metal carbonyl clusters: bridging organometallic molecular clusters and atomically precise ligated nanoclusters

Cristiana Cesari, Cristina Femoni, Francesca Forti, Maria Carmela Iapalucci, Giorgia Scorzoni and Stefano Zacchini*

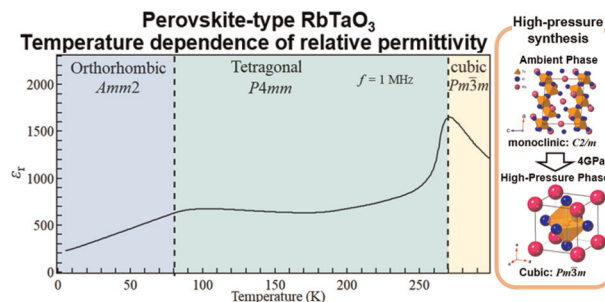


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Dielectric properties depend on the crystal structure of perovskite-type RbTaO_3 synthesized at high pressure

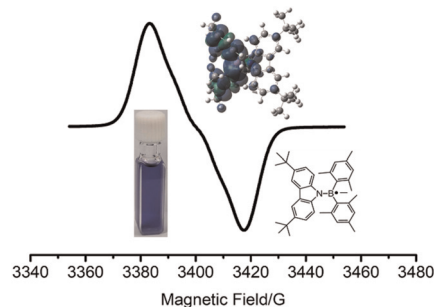
Kimitoshi Murase, Jun-ichi Yamaura, Yousuke Hamasaki, Takeharu Kato, Hajime Sagayama and Ayako Yamamoto*



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An isolable boron-centered radical anion stabilized by a carbazole moiety

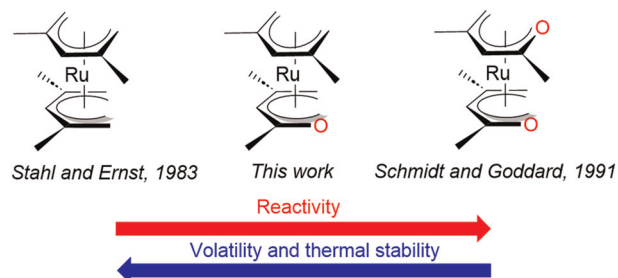
Ningning Yuan,* Tingchun Zhu, Jianping Ma, Yunsheng Xue and Yirui Liu



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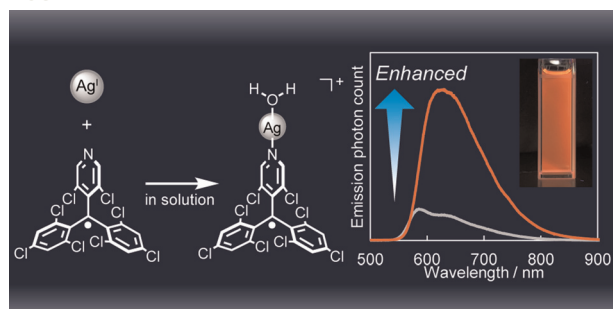
Heteroleptic "open ruthenocene" for deposition of Ru films from the gas phase

Roman Kultyshev,* Ian Harkness, Daniel B. G. Berry, Hoi Jobson, Huw Marchbank, Tugce Eralp Erden and Laura Ashfield



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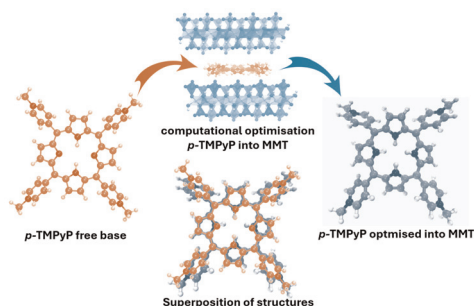
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Emission enhancement in a luminescent polychlorinated diphenylpyridylmethyl radical through coordination to silver(i)

Takuto Mibu,* Ryota Matsuoka, Masanari Nagasaka and Tetsuro Kusamoto*

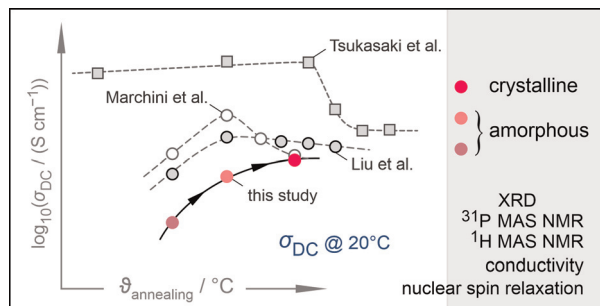
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Shape-responsive host-guest chemistry: metal-free tetra cationic porphyrin nonplanarity promoted by clay mineral interactions assessed by theoretical simulations

Eduardo Diaz Suarez, Filipe Camargo Dalmatti Alves Lima, Arles V. Gil Rebaza, Vera Regina Leopoldo Constantino* and Helena Maria Petrilli*

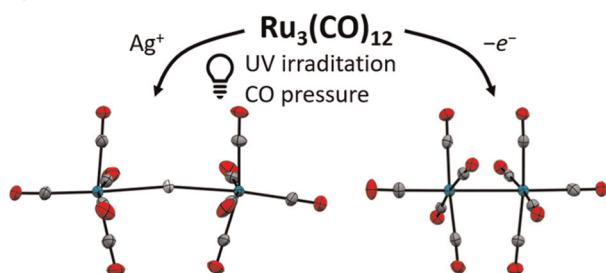
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Morphology-dependent Li⁺ ion dynamics in X-ray amorphous and crystalline Li₃PS₄ prepared by solvent-assisted synthesis

Jonas Spychala, Christoph Mandl, Katharina Hogrefe, H. Martin R. Wilkening* and Bernhard Gadermaier*

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Isolation and characterization of the dimetal decacarbonyl dication [Ru₂(CO)₁₀]²⁺ and the metal-only Lewis-pair [Ag{Ru(CO)₅}₂]⁺

Malte Sellin, Jörg Grunenberg and Ingo Krossing*

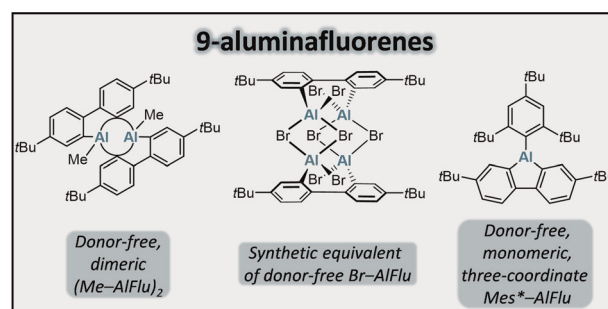


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Donor-free 9-aluminafluorenes: molecular structures and reactivity

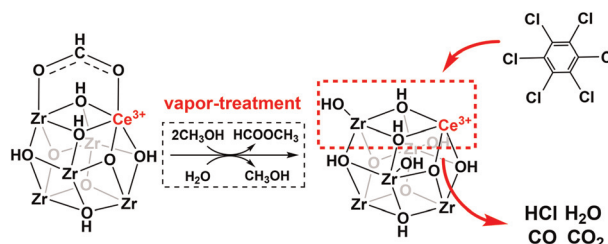
Paula L. Lückert, Jannik Gilmer, Alexander Virovets, Hans-Wolfram Lerner and Matthias Wagner*



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Defect-derived catalytic sites in Ce/Zr-UiO-66 for degradation of hexachlorobenzene

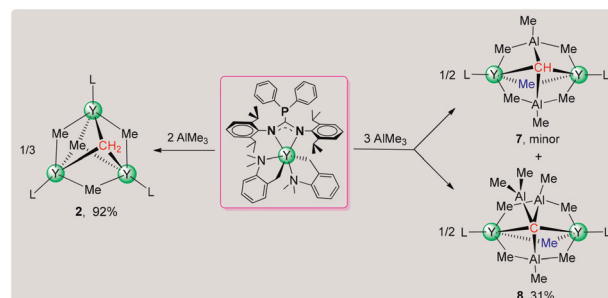
Zhengyan Wang, Chenhao Yuan, Dong Yang, Mifen Cui, Jihai Tang, Zhuxiu Zhang* and Xu Qiao*



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Phosphaguanidinate yttrium carbene, carbyne and carbide complexes: three distinct C1 functionalities

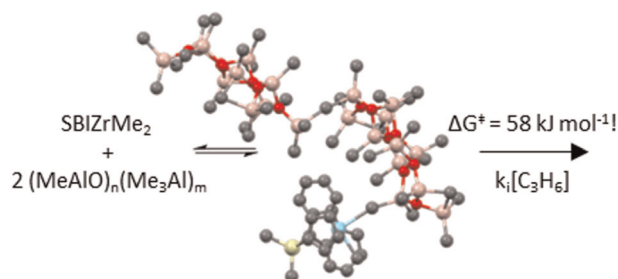
Wen Jiang and Lixin Zhang*



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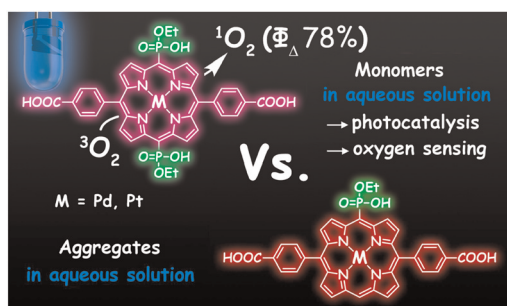
A cooperative model for metallocene catalyst activation by methylaluminoxane

Scott Collins* and Mikko Linnolahti*



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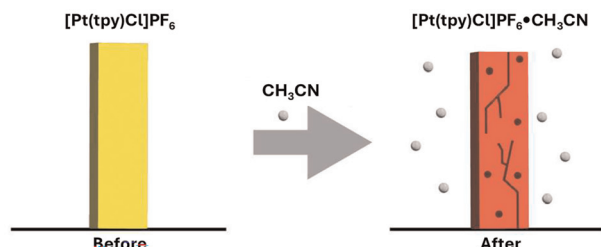
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Water-soluble platinum and palladium porphyrins with peripheral ethyl phosphonic acid substituents: synthesis, aggregation in solution, and photocatalytic properties

Marina V. Volostnykh, Gayane A. Kirakosyan, Anna A. Sinelshchikova, Elizaveta V. Ermakova, Yulia G. Gorbunova, Aslan Yu. Tsivadze, Sergey M. Borisov, Michel Meyer, Lhoussain Khrouz, Cyrille Monnereau, Stephane Parola and Alla Bessmertnykh-Lemeune*

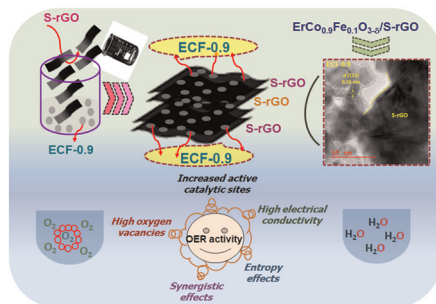
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Cracking down on vapochromic salts: unveiling vapomechanical stress in gas-sorbing platinum complexes

Amie E. Norton,* Stephen D. Taylor,* Caroline Williams, Ann Zoller, Watts Dietrich, William B. Connick and Sayandev Chatterjee*

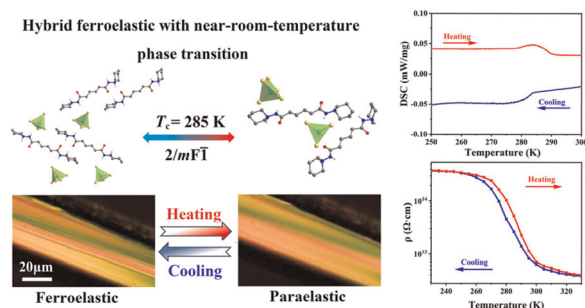
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Sulfonated reduced graphene oxide encapsulated perovskite-type ErCoFe oxide nanoparticles for efficient electrochemical water oxidation

Mehri Aligholivand and Zohreh Shaghghi*

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An organic–inorganic hybrid ferroelastic with a near-room-temperature phase transition

Yong-Ju Bai, Jun-Chao Qi, Ya-Ru Hou, Zhang-Tian Xia, Xin Shen, Hang Peng, Yan-Zi Lu, Yan Qin, Hui-Peng Lv* and Wei-Qiang Liao*

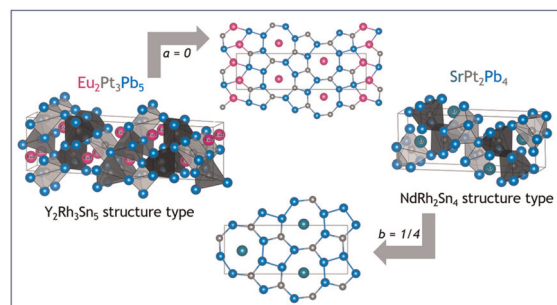


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Eu₂Pt₃Pb₅ and SrPt₂Pb₄—lead-based intermetallics with Y₂Rh₃Sn₅/NdRh₂Sn₄-type polyanionic platinum–lead 3D frameworks

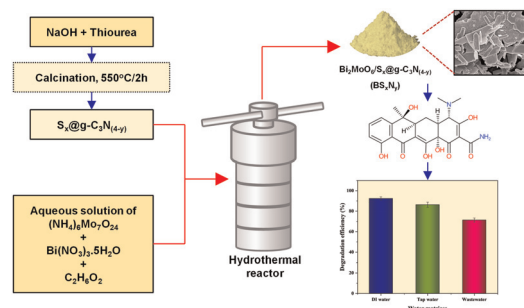
Anastasiia Yu. Makhaneva, Elena Yu. Zakharova, Sergey N. Nesterenko, Sergey M. Kazakov, Konstantin A. Lyssenko, Andrey N. Azarevich, Alexey V. Bogach and Alexey N. Kuznetsov*



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Fabrication of 2D/2D Bi₂MoO₆/S_x@g-C₃N_(4-y) type-II heterojunction photocatalyst for enhanced visible-light-mediated degradation of tetracycline in wastewater

Soorya K. K., Adarsh Singh, Suneel Kumar Srivastava,* Animesh Bhattacharya, Amit Bhatnagar and Ashok Kumar Gupta*

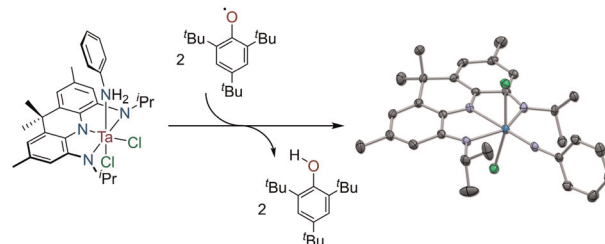


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Two-fold proton coupled electron transfer of a Ta(v) aniline complex mediated by a redox active NNN pincer ligand

Sotirios Pavlidis, Jasmin Alasadi, Amanda Opis-Basilio and Josh Abbenseth*

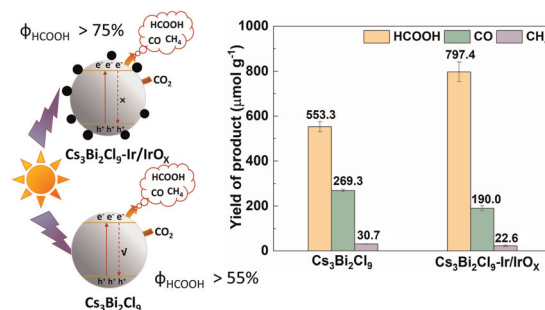
Ligand assisted proton coupled electron transfer of a Ta(V) aniline complex



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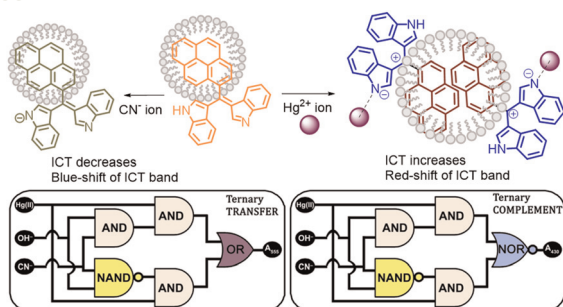
Selective photoreduction of carbon dioxide to formic acid using Cs₃Bi₂Cl₉–Ir/IrO_x hybrid materials

Govardhan Pandurangappa, Alamelu Kaliyaperumal, Raghuram Chetty* and Aravind Kumar Chandiran*



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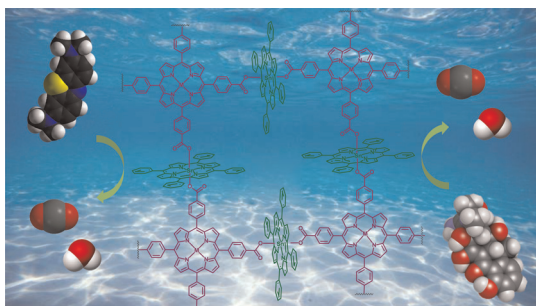
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Preeminent designing of complementary *ternary* TRANSFER and COMPLEMENT alongside excitation modulated molecular logic systems

Monaj Karar, Rikitha S. Fernandes, Snehasish Saha and Nilanjan Dey*

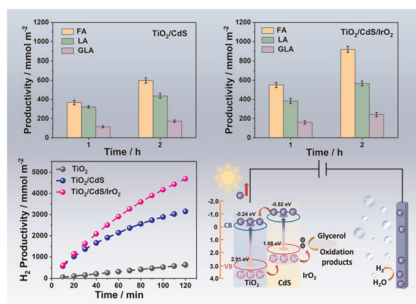
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Two-dimensional porous porphyrin materials composed of robust tin(IV)-porphyrin linkages for photocatalytic wastewater remediation

Nirmal Kumar Shee and Hee-Joon Kim*

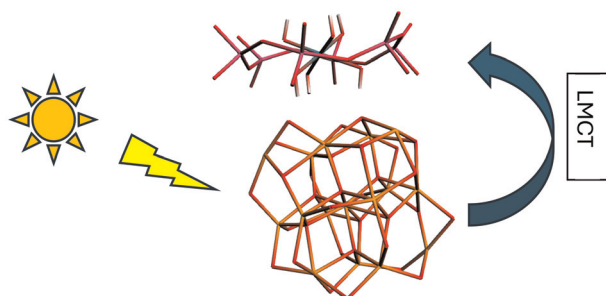
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Construction of ternary TiO₂/CdS/IrO₂ heterostructure photoanodes for efficient glycerol oxidation coupled with hydrogen evolution

Chenfeng Jiang, Yibo Ding, Jiayu Lin, Yi Sun, Wei Zhou, Xiaoyan Zhang,* Hongbin Zhao, Weimin Cao and Danhong Cheng

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Study of methylene blue removal and photocatalytic degradation on zirconia thin films modified with Mn-Anderson polyoxometalates

Jiress Florez, Carlos Diaz-Urbe, William Vallejo,* Freider Duran, Esneyder Puella, Javier Salazar, Ximena Zarate and Eduardo Schott*

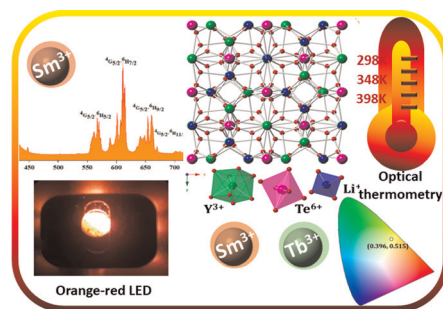


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Engineering the multifunctionality of $\text{Li}_3\text{Y}_3\text{Te}_2\text{O}_{12}$ garnets with Sm^{3+} and Tb^{3+} activators for solid-state lighting and luminescence thermometry

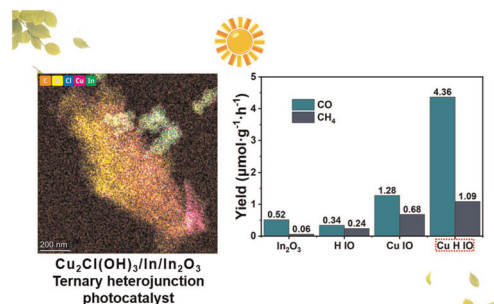
Amrithakrishnan Bindhu, Jawahar I. Naseemabeevi and Subodh Ganesanpotti*



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Construction of ternary heterojunction photocatalyst $\text{Cu}_2\text{Cl}(\text{OH})_3/\text{In}/\text{In}_2\text{O}_3$ for boosted photocatalytic CO_2 reduction performance

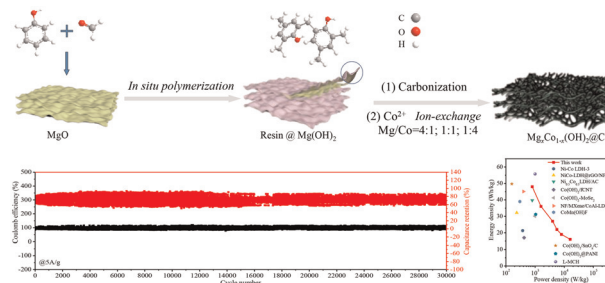
Jiayang Huang, Yao Su, Zhangjie Qian, Miaoer Wu, Yunchang Xie* and Chao Zeng*



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$\text{Mg}_x\text{Co}_{1-x}(\text{OH})_2@\text{C}$ as an electrode for supercapacitors: effect of doping level on energy storage capability

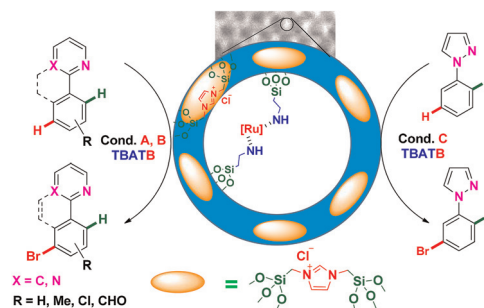
Beina Yang, Bei Cheng, Huijuan Li, Tielin Wang* and Mingjiang Xie*



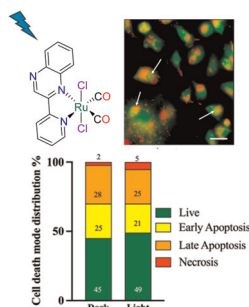
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Remote *meta*-selective C–H bromination of arenes using a recyclable Ru-based aminopropyl bifunctional PMO with robust imidazolium bridges

Hesamodin Moradi, Babak Karimi,* Touraj Karimpour, Piero Mastorilli and Stefano Todisco



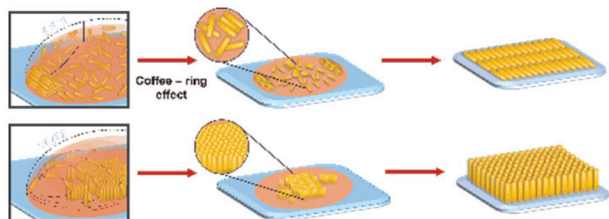
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Visible-light-induced CO-releasing properties and cytotoxicity of a Ru(II) carbonyl complex containing 2-(pyridin-2-yl)-quinoxaline

Rabaa M. Khaled, Mahmoud T. Abo-Elfadl, Krzysztof Radacki, Mona A. M. Abo Zeid, Ola R. Shehab, Nora S. Abdel-Kader, Gamal A. E. Mostafa, Essam A. Ali, Shaikha S. Al Neyadi and Ahmed M. Mansour*

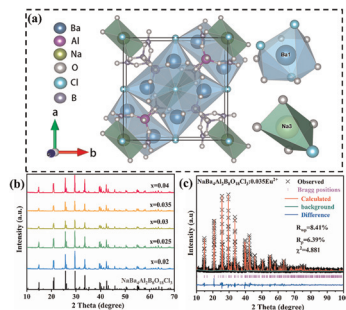
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Rational side-by-side self-assembly of gold nanorods with short and medium aspect ratios via the self-evaporation method to boost their potential as a surface-enhanced Raman scattering (SERS) substrate

Khuong Quoc Vo,* Thanh-Tuyen Thi Huynh, Thu Anh Nguyen and Tan-Trung Truong

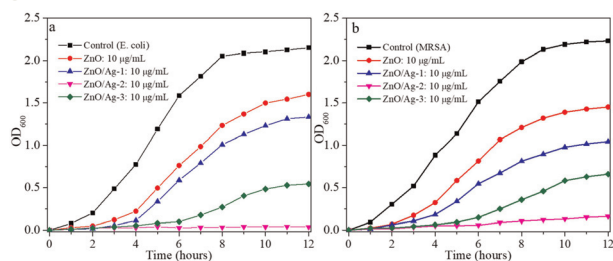
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A narrow band blue phosphor NaBa₄Al₂B₈O₁₈Cl₃:Eu²⁺ for white light emitting diodes

Boyu Pan, Yao Wang,* Bing Xu, Kangkang Wang, Liang Zhang, Zhixian He and Shengnan Zhang

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One-step spray pyrolysis synthesis of ZnO/Ag hollow spheres for enhanced visible-light-driven antibacterial applications and wound healing

Hailong Miao, Haili Wang,* Xiaoyue Feng and Hongwei Jiao*

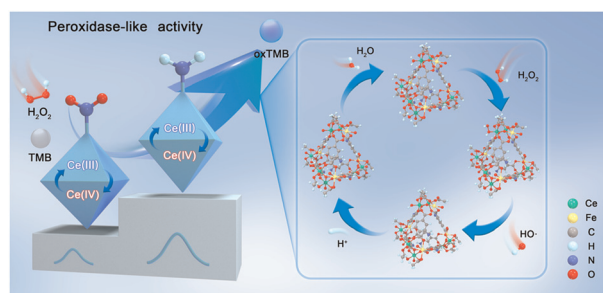


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Impact of cerium doping on the peroxidase-like activity of metal–organic frameworks

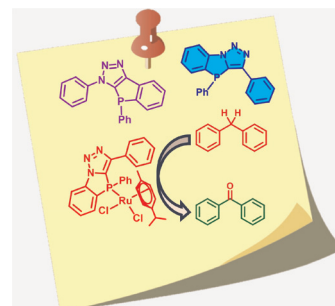
Yang Gao and Weisheng Liu*



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Triazolyl-phosphole and triazolyl-azaphosphole: synthesis, transition metal complexes and catalytic studies

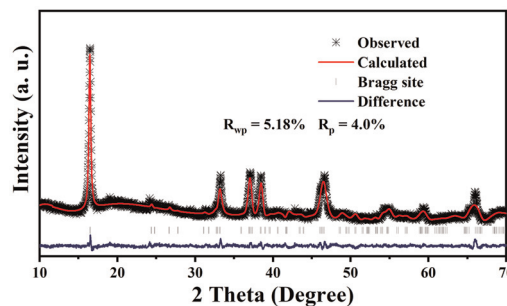
Latchupatula Radhakrishna, Basvaraj S. Kote, Rani Gourkhede, Ankit Pandey, Bhupinder Kaur and Maravanji S. Balakrishna*



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Delaying the volume-change of $\text{CaCo}_2\text{O}_4/\text{rGO}$ as an anode for high-performance lithium-ion and sodium-ion batteries

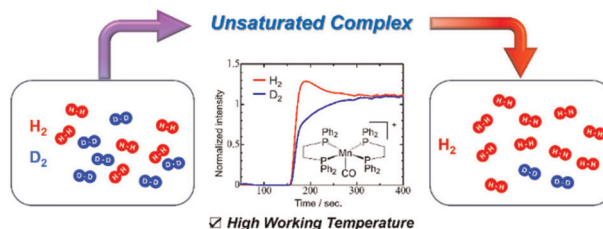
Yajie Zhou, Qinghua Fan,* Quan Kuang, Youzhong Dong and Yanming Zhao*



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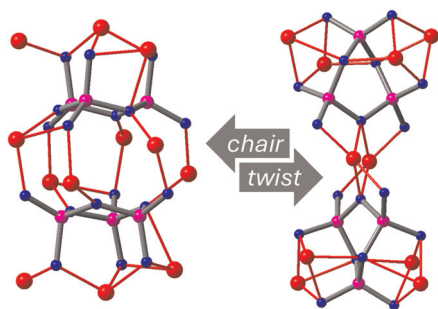
Hydrogen isotope separation at exceptionally high temperature using an unsaturated organometallic complex

Taku Kitayama, Tamon Yamauchi, Kaiji Uchida, Shunya Tanaka, Ryojun Toyoda, Hiroaki Iguchi, Ryota Sakamoto, Hao Xue, Naoki Kishimoto, Takefumi Yoshida, Tomoya Uruga, Shin-ichiro Noro and Shinya Takaishi*



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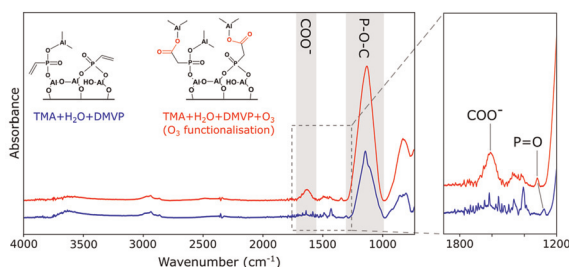


Tipping the balance between *twist* and *chair* ligand conformers in multinuclear ethylzinc cyclophosphazenes

Ramamoorthy Boomishankar, Philip I. Richards and Alexander Steiner*

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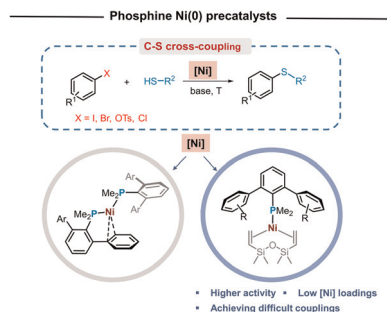
Phosphonate ALD



Vapour phase deposition of phosphonate-containing alumina thin films using dimethyl vinylphosphonate as precursor

Juan Santo Domingo Peñaranda, Arpan Dhara, Aditya Chalishazar, Matthias M. Minjauw, Jolien Dendooven and Christophe Detavernier*

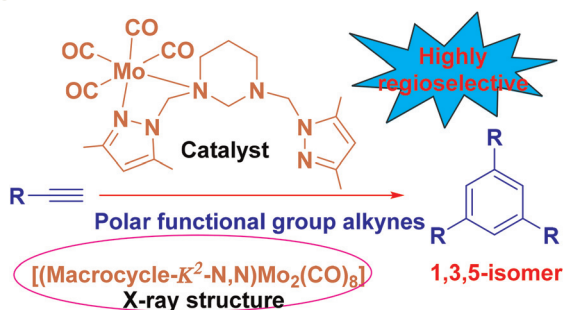
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Low-coordinate bis-phosphine and monophosphine Ni(0) complexes: synthesis and reactivity in C–S cross-coupling

M. Trinidad Martín, Carlos J. Carrasco, Nazaret Santamaría, Celia Maya, Auxiliadora Prieto,* Agustín Galindo* and M. Carmen Nicasio*

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Mo(0) carbonyl complexes bearing the bis(3,5-dimethylpyrazole) ligand: catalysis of the regioselective [2 + 2 + 2] cycloaddition of terminal alkynes to synthesize 1,3,5-isomers

Palash Mondal, Poulami Dutta and Ganesan Mani*

