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See Jonathan D. Burns *et al.*,
pp. 16344–16355.

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pp. 16393–16409.

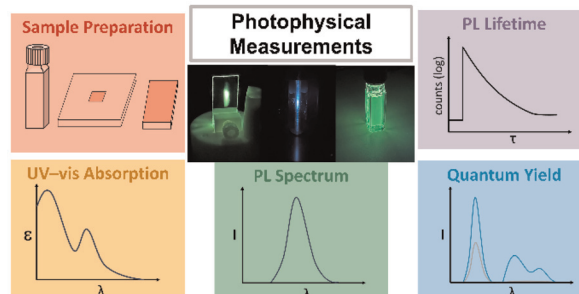
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A practical guide to measuring and reporting photophysical data

Vinh Q. Dang and Thomas S. Teets*

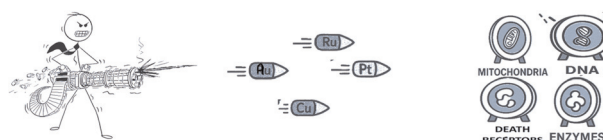


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Biochemical assays for evaluating anticancer activity and validating mechanisms of action in coordination/organometallic compounds: a review

Dalal Alezi, Abrar S. Iskandrani, Ehab M. M. Ali and Bandar A. Babgi*



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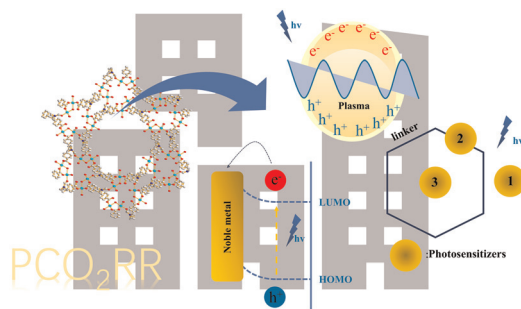
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Integration of noble metals with metal–organic frameworks for enhanced photocatalytic CO₂ reduction

Xiang-Yu Lu, Pei-Pei Cui* and Wei-Yin Sun*

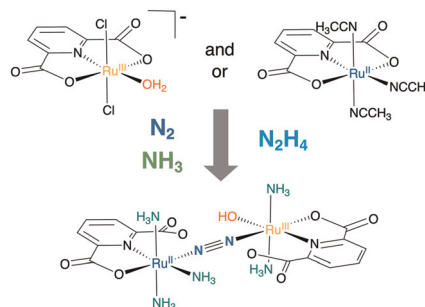


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Dinitrogen-bridged diruthenium complexes bearing 2,6-pyridinedicarboxylate in the mixed-valence state

Kazunari Uehara, Nayoung Kim, Aya Benzaki, Midori Otsuka, Tomoyo Misawa-Suzuki and Hirotaka Nagao*

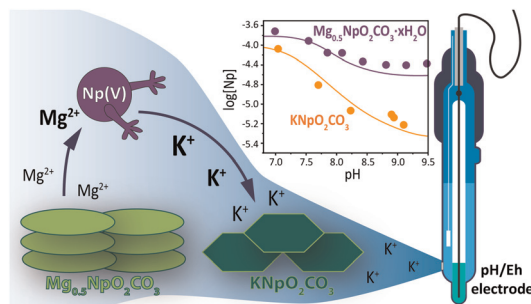


PAPERS

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Np(V) double carbonate with magnesium: synthesis, solubility and transformation

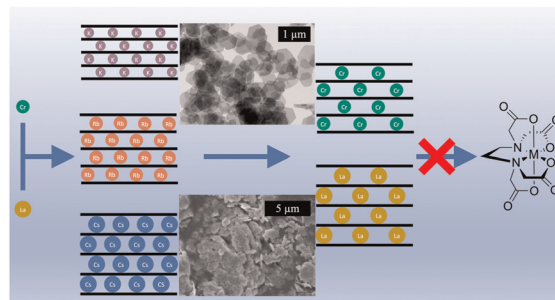
Anastasiia S. Kuzenkova,* Tatiana V. Plakhova, Roman D. Svetogorov, Elizaveta S. Kulikova, Alexander L. Trigub, Boris V. Kramar, Vasily O. Yapaskurt, Andrey S. Toropov, Maria D. Shaulskaya, Dmitry M. Tsybarenko, Anna Yu. Romanchuk and Stepan N. Kalmykov



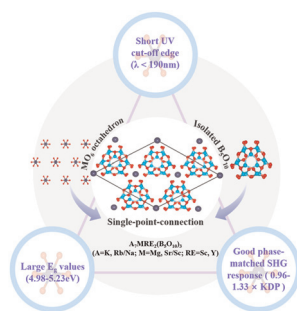
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Uptake and binding of La³⁺ and Cr³⁺ ions by alkali metal substituted alpha-zirconium phosphate

B. D. Imansha Madhushan, Adrianna L. Orsi, Jennifer M. Pyles and Jonathan D. Burns*



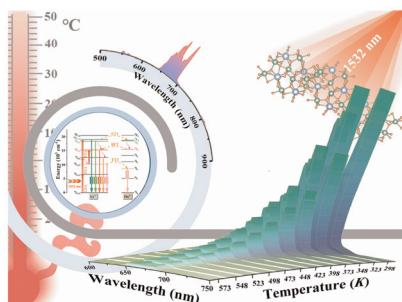
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Synthesising a series of promising ultraviolet nonlinear optical materials with the aid of the flexibility of isolated $[B_5O_{10}]$ groups

Yixin Song, Hongwei Yu,* Hongping Wu,* Zhanguai Hu, Jiyang Wang and Yicheng Wu

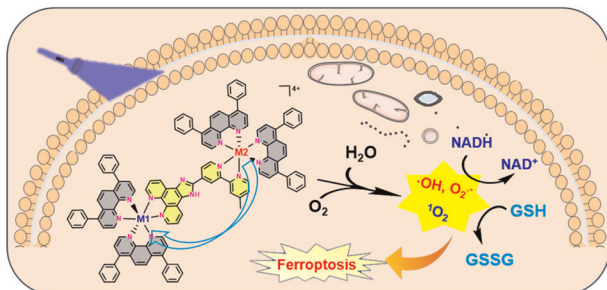
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Design of a 1532 nm-driven red upconverter with high color purity for optical thermometry and anti-counterfeiting applications

Guotao Xiang,* Hongdou Chen, Yuanyuan Yi, Zhiyu Yang, Yongjie Wang, Lu Yao,* Xianju Zhou, Li Li, Xiaojun Wang and Jiahua Zhang*

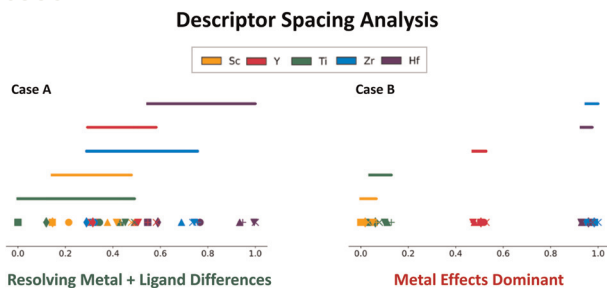
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A bimetallic Ru(II)–Ru(II) complex as an effective non-small cell lung cancer photosensitizer with potential ferroptosis photoinduction

Kelun Cui, Yuqing Wei, Sufen Si, Qiuyun Chen, Gaoji Wang, Songlin Xue, Yue Wang,* Chunyin Zhu* and Feng Chen*

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Electronic effects in early transition metal catalyzed olefin polymerization: challenges in featurization and descriptor strengths and weaknesses

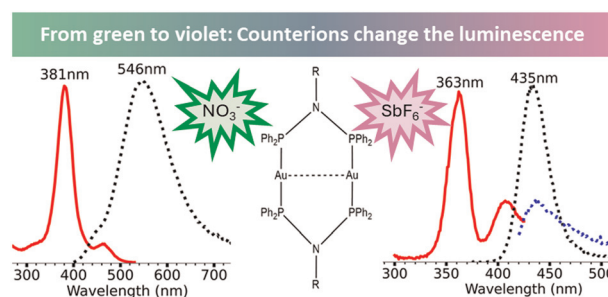
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Ligand and counter-ion effects on the photoluminescence of dinuclear bis(diphenylphosphino)amine gold(i) complexes

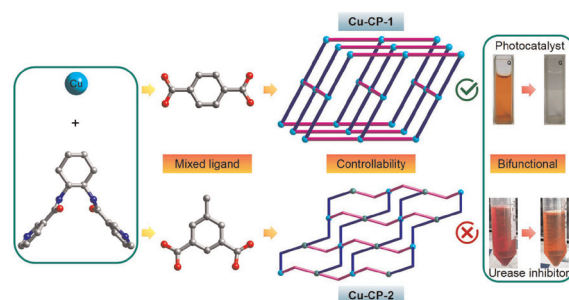
Christo van Staden, Robin E. Kroon, Cameron Matthews, Lyudmila V. Moskaleva, Kgalaleto P. Otukile, Dumisani V. Kama, Marietjie Schutte-Smith and Hendrik G. Visser*



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Fabrication of a copper-based coordination polymer as a bifunctional photocatalyst and urease inhibitor

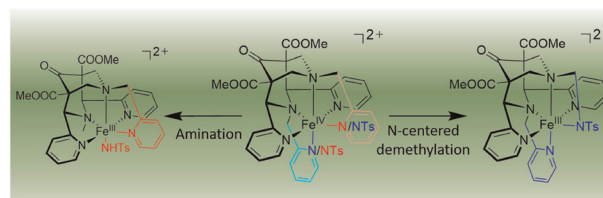
Fang Ding,* Nan Su, Wen-Long Duan,* Si-Qi Wang, Hao-Nan Deng and Jian Luan*



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Elucidating decay pathways of bispidine–iron(IV)–tosylimido complexes: insights gained from decay products

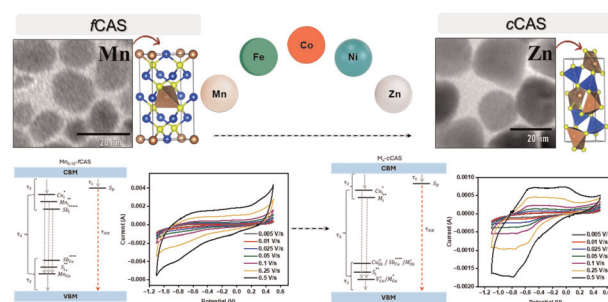
Thomas Josephy, Fridolin Röhs, Thorsten Glaser, Peter Comba and Katharina Bleher*



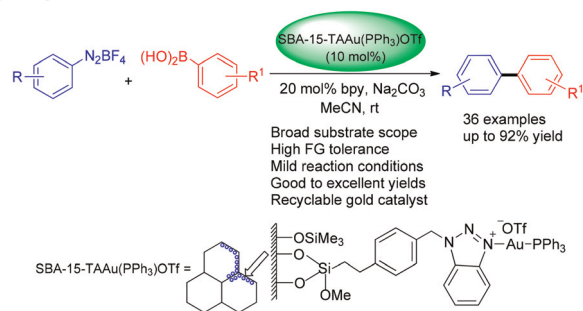
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Metal ion dopant-induced famatinite to chalcostibite phase transformation of copper antimony sulphide colloidal nanostructures: effect on photophysical and pseudocapacitance properties

Kimberly Weston, Richard A. Taylor,* Kim Kisslinger and Shobha Mantripragada



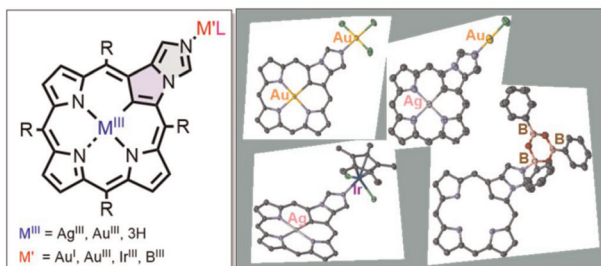
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External oxidant-free heterogeneous gold-catalyzed C(sp²)-C(sp²) cross-coupling of aryl diazonium salts and arylboronic acids with the assistance of a bpy ligand

Ling Chen,* Boling Song, Jiajia Li and Mingzhong Cai*

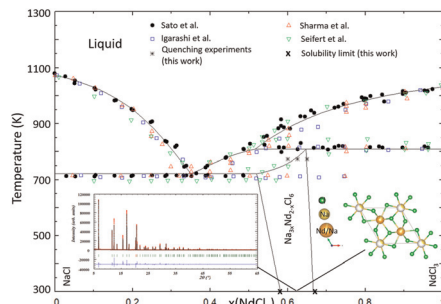
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Imidazo[1,5]carbazolines as a hybrid ligand

Kinga Szydełko, Sebastian Koniarz, Michał J. Biatek and Piotr J. Chmielewski*

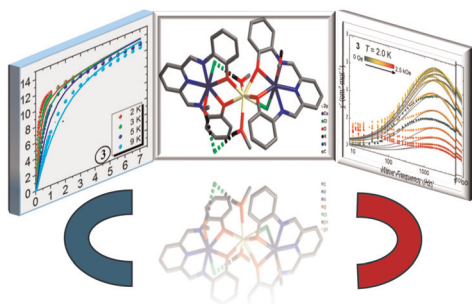
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Simulant chemistry for uranium and plutonium molten fuel salts: crystallographic investigation and thermodynamic modelling assessment of the NaCl-RECl₃ and NaCl-MgCl₂-RECl₃ (RE = Ce, Nd) systems

Dennis C. Alders, Ana Sacristán-Civera, Mädchen Wolff, Elisa Capelli, Eleanor L. Bright, Christoph Hennig, Rudy J. M. Konings and A. L. Smith*

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Exploring the magnetic anisotropy and slow relaxation in heterometallic Co^{II}-Ln^{III}-Co^{II} complexes: from synthesis to *ab initio* insights

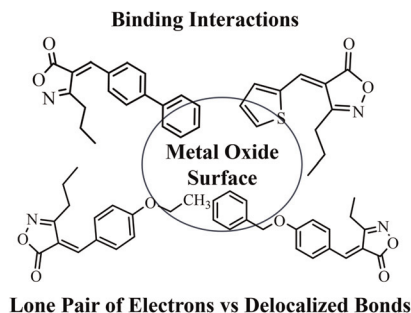
Sukhendu Bikash Samanta, Soumalya Roy, Piotr Konieczny,* Robert Pełka, Stanisław Baran, Mo Himchan, Atanu Dey,* Junseong Lee* and Sourav Das*



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Lone pair *versus* aromatic interactions on metal oxide surfaces: a combined spectroscopic and computational study

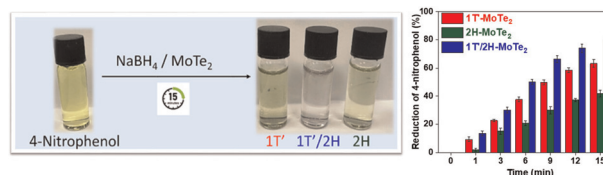
Afia Saleem, Hamza Khan, Syed Majid Bukhari, Lotfi Ben Tahar, Umar Farooq* and Ahson Jabbar Shaikh*



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Catalytic reduction of 4-nitrophenol using 2D-molybdenum ditelluride

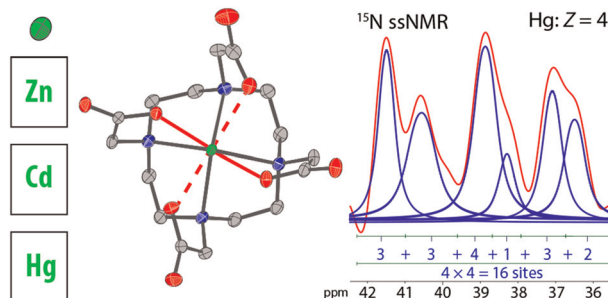
Arun Kumar Samuel, Zeliha Ertekin, B. Moses Abraham, Zhengxin Yang, Mark D. Symes and Alexey Y. Ganin*



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DOTA complexes with divalent zinc, cadmium and mercury: X-ray and solid-state NMR studies and solution isomerism

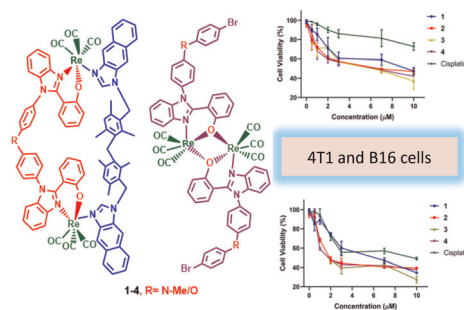
Jakub Obuch, Ivana Císařová, Jiří Brus* and Petr Hermann*



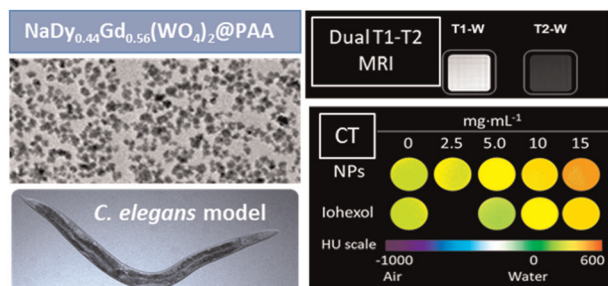
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Dirhenium core-based cyclic and acyclic helicates as anticancer agents for breast cancer and skin cancer cells

Moon Kedia, Sajmina Khatun, Ramar Arumugam, Chandra Lekha Putta, Bhaskaran Shankar, Upasana Phukon, Vadapalli Chandrasekhar,* Aravind Kumar Rengan* and Malaichamy Sathiyendiran*



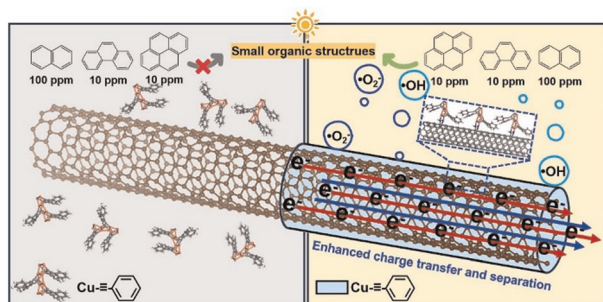
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Sodium lanthanide tungstate-based nanoparticles as bimodal probes for T_1 – T_2 magnetic resonance imaging and X-ray computed tomography

Elisabet Gómez-González,* Nuria O. Núñez, Carlos Caro, Maria L. García-Martín, José M. Monje Moreno, Amel Hamdi, Pilar López-Larrubia, Ana I. Becerro and Manuel Ocaña*

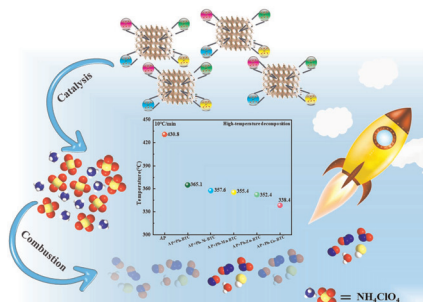
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CNT serial copper-phenylacetylide to construct high-speed charge transfer/separation channels for effective photocatalytic degradation of PAHs

Hui-Ying Sun,* Yue-Ying Xu, Bai-Ling Liu* and Hua-Qiao Tan*

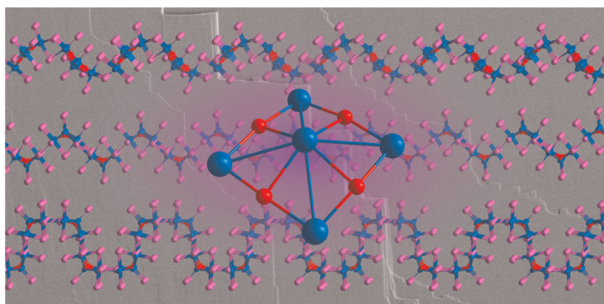
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Encapsulation of transition metals in lead-based MOF pores to facilitate efficient thermal decomposition of ammonium perchlorate

Juan Zhang, Bo Jin* and Rufang Peng*

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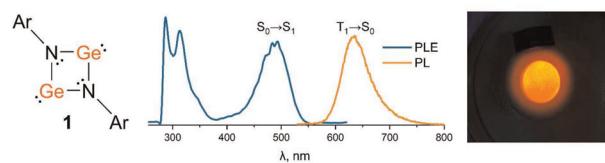


Structural modifications of $M_5O_4I_{11}$ ($M = Nb, Ta$) cluster networks from heterogeneous solid-state reactions

Fabian Grahlow, Jan Beitzberger, Mario Martin, Eric Juriatti, Heiko Peisert, Marcus Scheele, Markus Ströbele, Carl P. Romao and Hans-Jürgen Meyer*



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Strongly emitting Ge(II) imide complexesAlina A. Kryuchenkova, Vasily A. Ilichev,
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Synthesis, coordination, and catalytic application of phosphinoferrocene ligands bearing flexible thienyl and thiazolyl pendants

Věra Varmužová, Ivana Císařová and Petr Štěpnička*

