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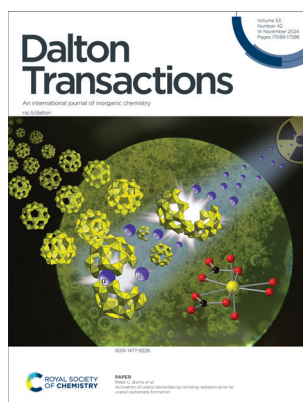
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Cover
See Roland A. Fischer *et al.*,
pp. 17162–17168.

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See Peter C. Burns *et al.*,
pp. 17169–17178.

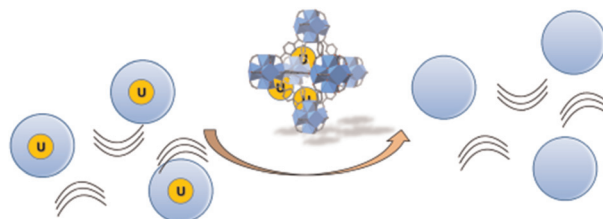
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PERSPECTIVE

17110

Uranium extraction by metal–organic frameworks: advanced materials for new sorption possibilities

Mathéo Henry, Damien Rinsant, Jérôme Maynadié and
Michaël Carboni*

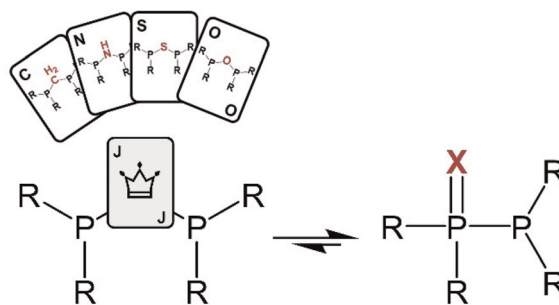


FRONTIERS

17123

PPX/XPX-type ligands (X = O and S) and their transition metal complexes: synthesis, properties and applications

Franziska Flecken and Schirin Hanf*



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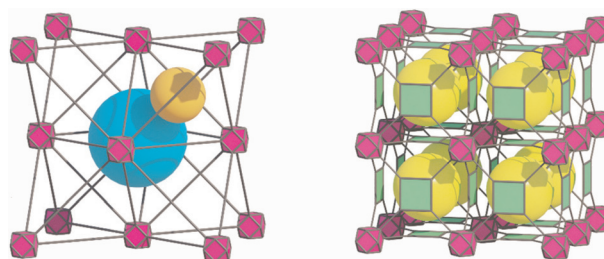
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17132

Yttrium-based metal–organic frameworks built on hexanuclear clusters

Shenfeng Li, Tao Shen,* Manglai Gao* and Hao Wang*

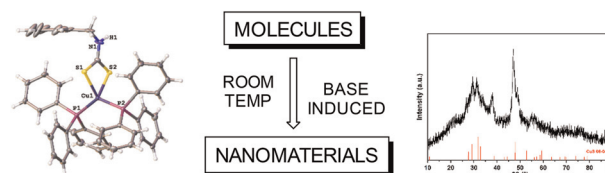


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A chemically induced, room temperature, single source precursor to CuS (covellite) nanomaterials: synthesis and reactivity of $[\text{Cu}(\text{S}_2\text{CNHBz})]_n$

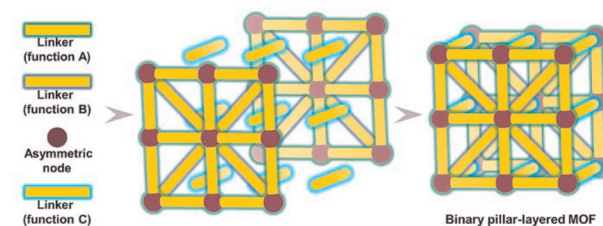
Siqiao Huang, Xiang Xu, Jagodish C. Sarker, David Pugh and Graeme Hogarth*



17146

One ligand, two roles: novel pillar-layered metal–organic frameworks built with a 3D ligand and asymmetric inorganic nodes

Chaozhuang Xue,* Yingying Zhang, Kai Zhu, Suyun Deng, Konggang Qu, Shuwen Gong* and Huajun Yang*

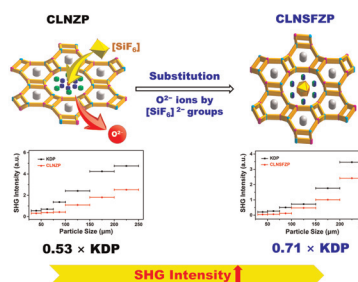


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Approach for quality deep-ultraviolet nonlinear optical crystals *via* a substitution strategy of channel species in zeolite

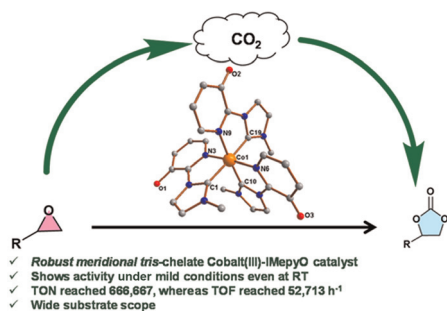
Mingfeng Liu, Jin-Xiao Mi, Yinggan Zhang, Shuaihua Wang, Shaofan Wu and Ya-Xi Huang*

Optical Properties Tuned by Channel Species in Zeolite



COMMUNICATIONS

17157

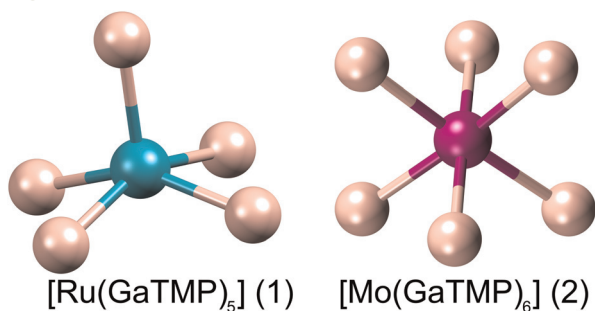


Not so inert *mer*-tris-chelate cobalt(III) complex of a hydroxy-pyridine functionalized NHC ligand for cyclic carbonate synthesis

Rhitwika Chowdhury, Irshad Ahmad Bhat, Sharad Kumar Sachan and Ganapathi Anantharaman*

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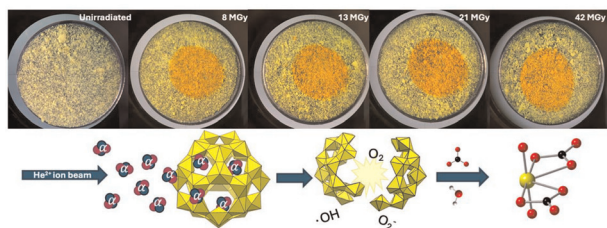
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Homoleptic hexa- and penta-coordinated gallium(i) amide complexes of ruthenium and molybdenum

Raphael Bühler, Richard J. J. Weininger, Johannes Stephan, Maximilian Muhr, Balasai M.-T. Bock, Christian Gemel and Roland A. Fischer*

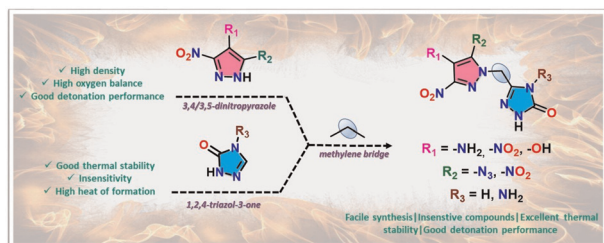
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Activation of uranyl peroxides by ionizing radiation prior to uranyl carbonate formation

Zoe C. Emory, Jay A. LaVerne and Peter C. Burns*

17179



N-Methylene-*C*-linked nitropyrazoles and 1,2,4-triazol-3-one: thermally stable energetic materials with reduced sensitivity

Krishna Pandey, Priyanka Das, Meera Khatri and Dheeraj Kumar*

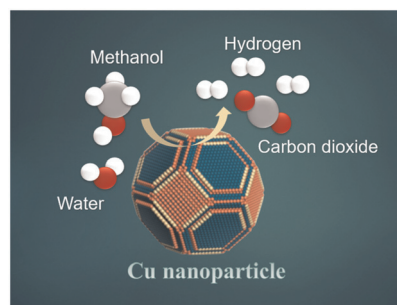


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First-principles-based microkinetic modeling of methanol steam reforming over Cu(111) and Cu(211): structure sensitive activity and selectivity

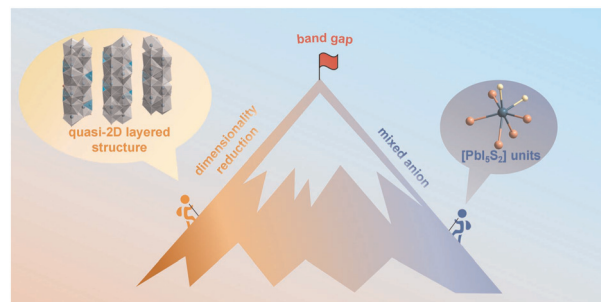
Xinyi Zhang and Bo Yang*



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Pb₆Ba₃Si₂S₈I₁₀: a new thiohalide with a quasi-two-dimensional structure and wide band gap

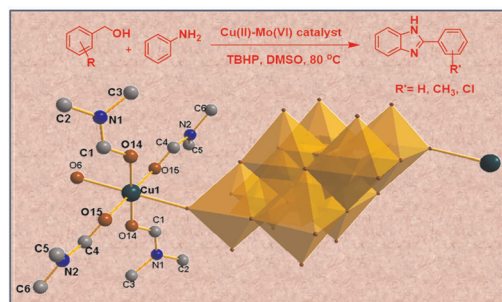
Wang Zhao, Jiazheng Zhou, Linan Wang, Wenqi Jin, Yingying Kong, Yu Chu* and Junjie Li*



17207

Polyoxometalate-supported transition metal complexes for the oxidative cross-coupling of amines and alcohols

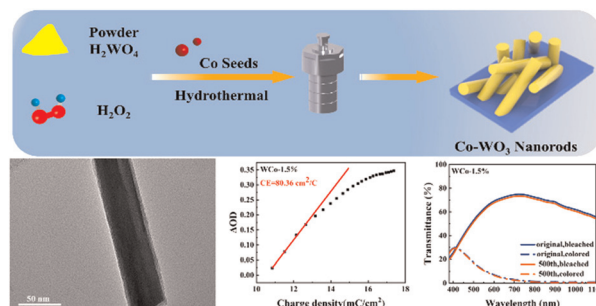
Ankita Pardiwala, Meghal A. Desai and Ritambhara Jangir*



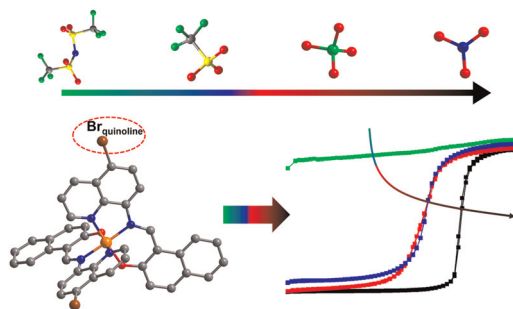
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Effect of Co-doping on the electrochromic performance of hexagonal phase WO₃ nanorods

Zhaozhu Qu, Ankang Li, Ming Gao, Xiaohui Sun, Xuyang Zhang,* Guohua Wu* and Xiangwei Wang*



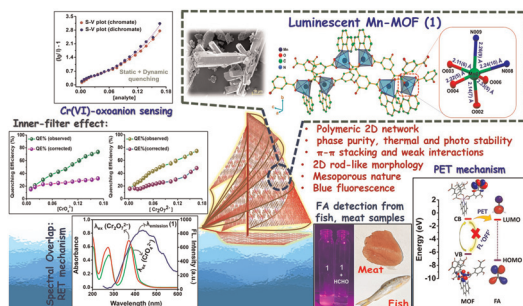
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Spin crossover Fe^{III} complexes with a substituted Hqnal ligand: effects of anions and solvents

Feng-Li Chen, Xin-Li Liu, Yue Zhao, Gang Li, Bo-Hong Gao and Xin-Yi Wang*

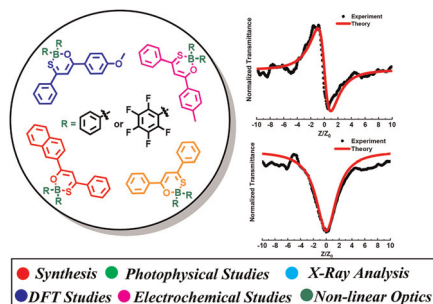
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Mixed-ligand based water-stable Mn(II)-MOF for quick, sensitive, and reusable IFE-PET-RET facilitated detection of formaldehyde and Cr(VI)-oxoanions in real-field samples like food and industrial water: experimental and theoretical insights

Udayan Mondal, Somrita Nag, Rajeshwari Pal and Priyabrata Banerjee*

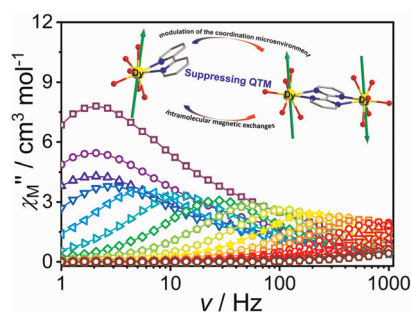
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O,S-Chelated bis(pentafluorophenyl)boron and diphenylboron-β-thioketonates: synthesis, photophysical, electrochemical and NLO properties

Anna Chandrasekar Murali, Rudrashish Panda, Ramkumar Kannan, Ritwick Das* and Krishnan Venkatasubbaiah*

17272



Enhancing the single-molecule magnetic performance of β-diketonate Dy(III) complexes by modulating the coordination microenvironment and magnetic interaction: from a mononuclear to a dinuclear structure

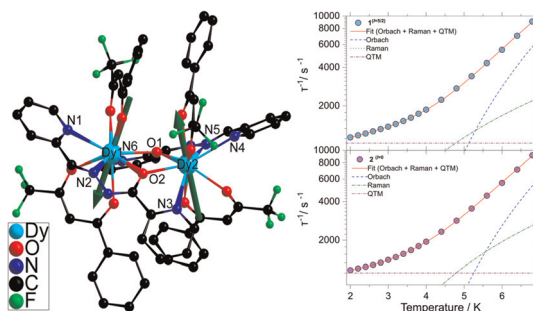
Yafu Wang, Zhaopeng Zeng, Shuchang Luo,* Yan Guo and Xiangyu Liu*



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Modulating quantum tunnelling of magnetization in Dy isotopologue dimers

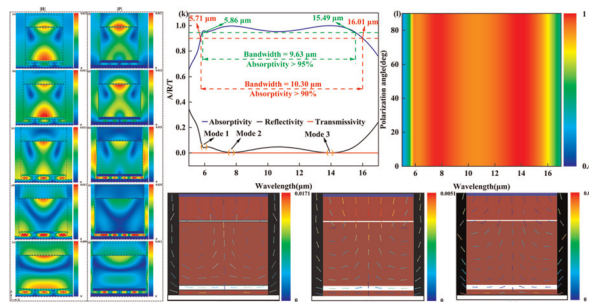
Ting-Ting Ruan, Eufemio Moreno-Pineda,* Sagar Paul, Michael Schulze, Sören Schlittenhardt, Asato Mizuno, Wolfgang Wernsdorfer* and Mario Ruben*



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Three peak metamaterial broadband absorbing materials based on ZnSe-Cr-InAs stacked disk arrays

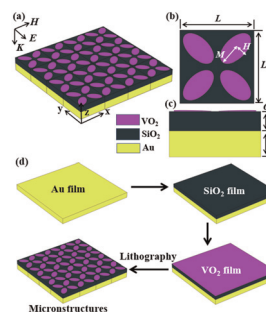
Boyi Chen, Can Ma, Tangyou Sun, Qianju Song, Liang Bian, Zao Yi,* Zhiqiang Hao, Chaojun Tang, Pinghui Wu and Qingdong Zeng



17299

Temperature-tunable terahertz metamaterial device based on VO₂ phase transition principle

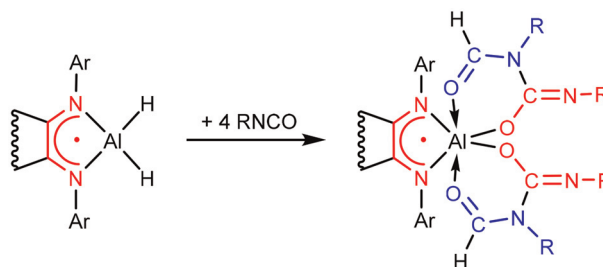
Hao Sun, Tangyou Sun, Qianju Song, Liang Bian, Zao Yi,* Jianguo Zhang, Zhiqiang Hao, Chaojun Tang, Pinghui Wu and Qingdong Zeng



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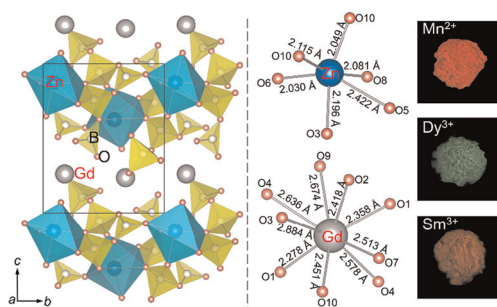
Hydro-coupling of isocyanates promoted by 1,2-bis(arylimino)acenaphthene aluminum hydrides

Tatyana S. Koptseva, Alexandra A. Skatova, Mikhail V. Moskalev, Roman V. Romyantcev and Igor L. Fedushkin*



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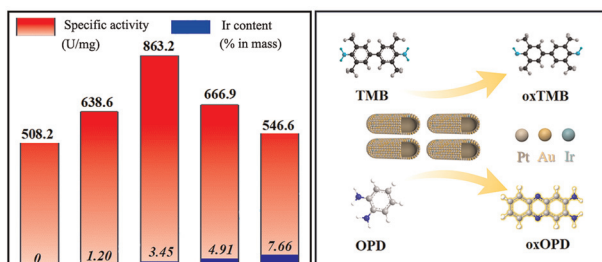
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Host-sensitized borate phosphors ZnGdB₅O₁₀: Mn²⁺/Dy³⁺/Sm³⁺

Yu Chen, Yan Gao, Rihong Cong* and Tao Yang*

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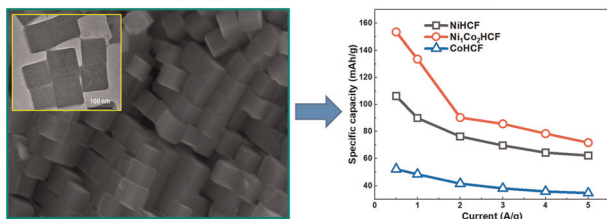


A low iridium content greatly improves the peroxidase-like activity of noble metal nanozymes for sensitive colorimetric detection

Jian Hao, Rui Shang, Miaotian Shi,* Jincheng Yuan, Yi Tan, Jiawei Liu* and Kai Cai*

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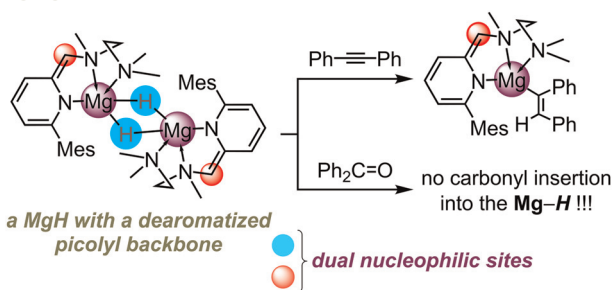
Mixed Ni/Co PBA: Synergistically enhanced electrochemical performance



Novel mixed nickel/cobalt hexacyanoferrate microcubes with synergistic effects for aqueous hybrid supercapacitors

Vu Van Thuy, Nguyen Si Hieu and Tran Viet Thu*

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Synthesis and reactivity of a heteroleptic magnesium hydride on a dearomatized picolyl-based NNN-chelator

Chhotan Mandal, Subham Sarkar, Sourav Panda, Dibyendu Mallick* and Debabrata Mukherjee*

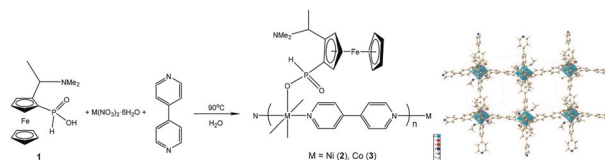


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Ugi's amine based coordination polymers as synergistic catalysts for the electrocatalytic reduction of carbon dioxide

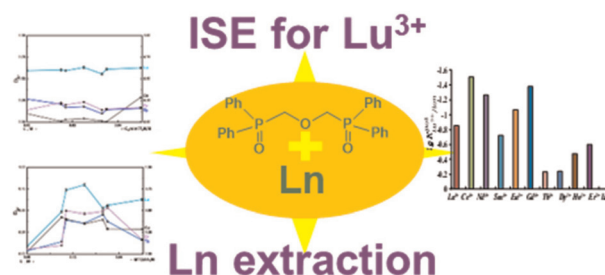
Mikhail N. Khrizanforov,* Farida F. Naileva, Kamil A. Ivshin, Almaz A. Zagidullin, Anastasiia P. Samorodnova, Polina V. Milyukova, Ruslan P. Shekurov, Artem I. Laskin, Alexander S. Novikov and Vasily A. Miluykov



17361

Effect of the stability of 1,3-bis(diphenylphosphoryl)-2-oxapropane complexes on the separation of lanthanide ions and their detection

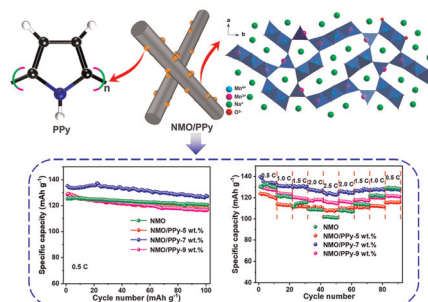
Serafima S. Slobodskaja,* Galina S. Tsebrikova, Vitaly P. Solov'ev, Irina S. Ivanova, Elena N. Pyatova, Vladimir E. Baulin, Alfiya M. Safiulina and Aslan Yu. Tsivadze



17370

Boosting sodium storage performance of Na_{0.44}MnO₂ through surface modification with conductive polymer PPy utilizing sonication-assisted dispersion

Lingling Xie,* Xinwei Wang, Changle Xia, Huilin Huang, Limin Zhu, Qing Han, Xuejing Qiu and Xiaoyu Cao



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Exploring improved strategies for therapeutic studies and biological activities of novel zinc and indium phthalocyanines

Kevser Celep, Göknur Yaşa Atmaca,* Pelin Demir Aydoğmuş, Kumsal Eroğlu, Ömer Tahir Günkara, Gülay Giray, Gülşah Tollu, Sadin Özdemir and Ali Erdoğan

