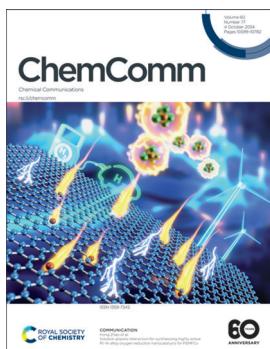


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PROFILE

10611

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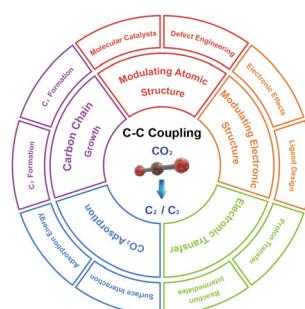


HIGHLIGHT

10618

Mechanistic insights into C–C coupling in electrocatalytic CO₂ reduction reaction

Yao Hu, Muhammad Asif, Jiaxuan Gong, Hassan Zeb,
Haihui Lan,* Muhammad Kashif Khan, Huicong Xia* and
Mingliang Du*



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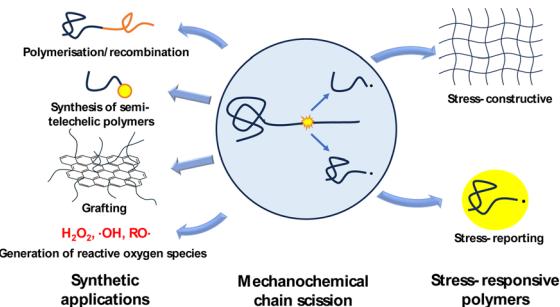
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FEATURE ARTICLES

10629

Productive chemistry induced by mechanochemically generated macroradicals

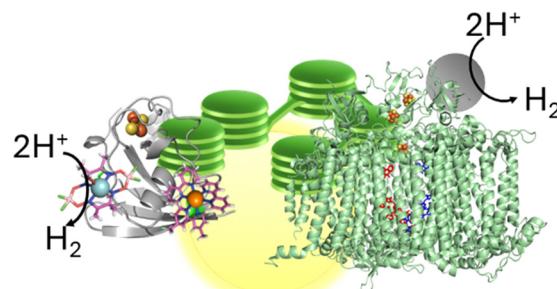
Chenxu Wang,* Cai-Li Sun and Roman Boulatov*



10642

Photosynthetic biohybrid systems for solar fuels catalysis

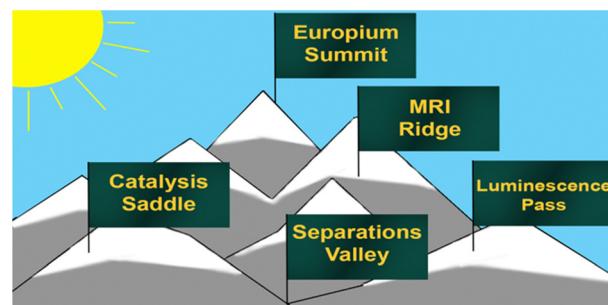
Lisa M. Utschig* and Karen L. Mulfort



10655

Europium(II/III) coordination chemistry toward applications

Elizabeth C. Lewandowski, Colin B. Arban, Morgan P. Deal, Andrea L. Batchev and Matthew J. Allen*

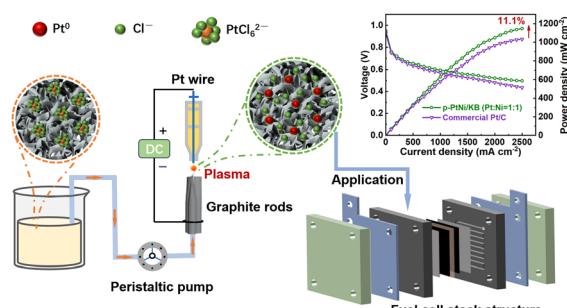


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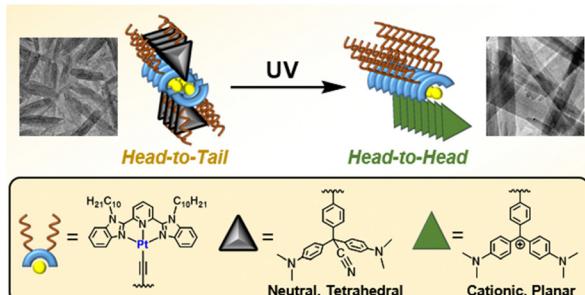
Solution-plasma interaction for synthesizing highly active Pt–Ni alloy oxygen reduction nanocatalysts for PEMFCs

Shuxiu Yang, Yu Tang, Yawen Tan, Bona Fu, Mingyang Liu, Qingzhu Shu, Shuhong Liu and Hong Zhao*



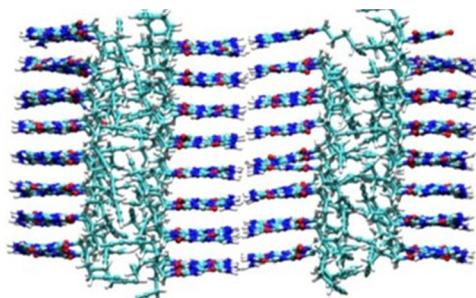
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**Photoactivable malachite green-based alkynylplatinum(II) 2,6-bis(*N*-alkylbenzimidazol-2-yl)-pyridine complexes**

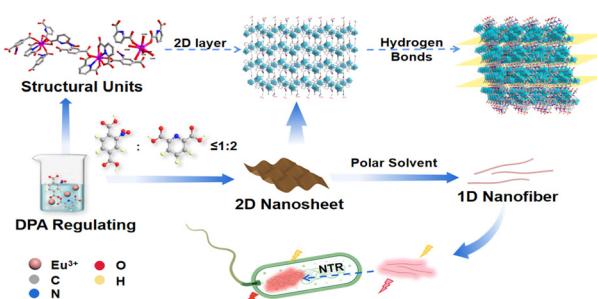
Andy Shun-Hoi Cheung, Ming-Yi Leung, Tony Ho-Ching Fung and Vivian Wing-Wah Yam*

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**Altering the structures of 3D supramolecular assemblies from melamine and cyanuric acid derivatives in water**

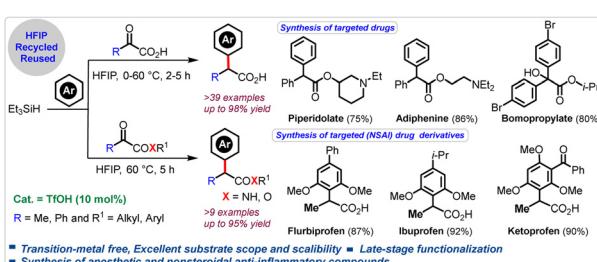
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**Dimensional regulation of lanthanide metal-organic frameworks and their application in bacterial detection**

Yifan Gao, Zhizhuo Gu, Xiaoling Sun, Jiaying Pang, Liaokuo Gong,* Lian Xia* and Fengli Qu

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**Chemoselective deoxygenative α -arylation of carboxylic acids, amides, and esters: synthesis of anesthetic and anti-inflammatory compounds**

Jabir Khan, Aparna Tyagi, Rima Samanta and Chinmoy Kumar Hazra*

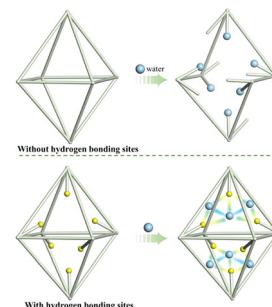


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Enhanced water stability of MOFs via multiple hydrogen bonds and their application in water harvesting

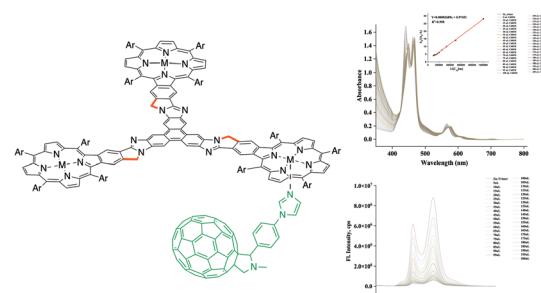
Yi-Chao Wang, Mo-Han Chen, Zi-Wen Fan, Yue Wang, Cai-Xiang Huang, Hui-Fang Wang,* Jian-Ping Lang* and Zheng Niu*



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Cyclically conjugated porphyrin trimers linked through benzo[4,5]imidazo[2,1-a]isoindole bridges

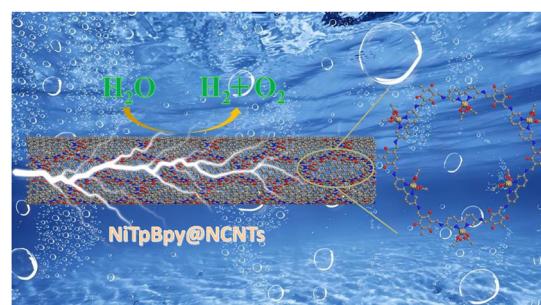
Ting Han, Prabha Sharma, Navneet Khetrapal and Hong Wang*



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Covalently grafting a covalent organic framework onto carbon nanotubes as a bifunctional electrocatalyst for overall water splitting

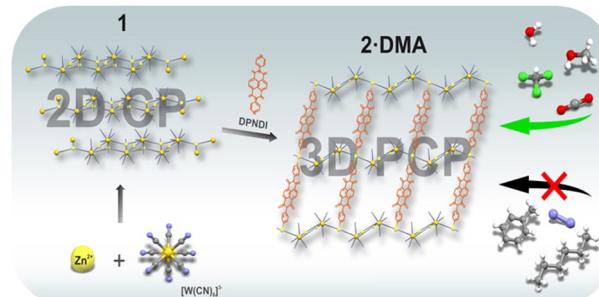
Hongwei Li, Qizhe He, Yunye Cao,* Lei Lei, Degao Wang* and Ting-Ting Li*



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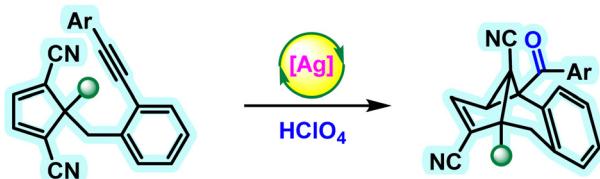
Exploring porosity in a flexible 3D organic–inorganic $\{Zn^{II}(4DPNDI)[W^V(CN)_8]_2\}$ coordination network

Katarzyna Jędrzejowska, Jędrzej Kobylarczyk, Tadeusz M. Muzioł, Beata Nowicka, Damian Jędrzejowski, Dariusz Matoga, Bartłomiej Gaweł and Robert Podgajny*



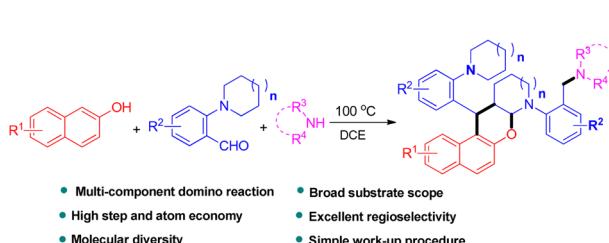
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 **$Ag(I)$ -catalyzed diastereoselective oxidative cyclopropanation of prochiral alkyne-tethered 1,3-dicarbonitriles**

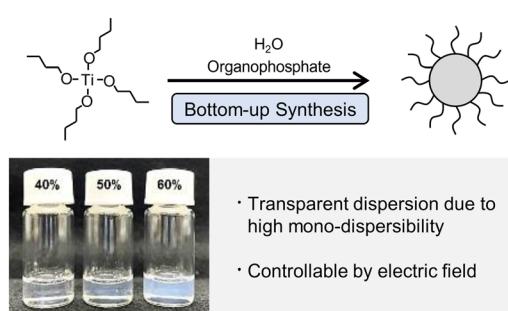
N. Navaneetha, Anandaraao Munakala and Rambabu Chegondi*

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**Eco-friendly $\alpha,\beta-C(sp^3)-H$ difunctionalization of tertiary amines via sequential [1,5]-hydride transfer and hetero-Diels–Alder cyclization**

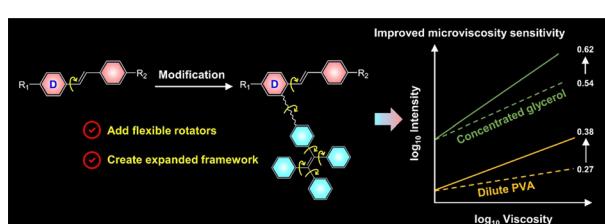
Yi Zhang, Huihui Yan, Peng Zhao,* Rener Chen, Weiwei Fang,* Lei Wang and Yongmin Ma*

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**Synthesis and electric field response of titanium dioxide nano-particles dispersed in hydrophobic solvents**

Tetsuya Kurebayashi,* Seki Inoue, Yuichi Masuda, Hiroyuki Shinoda and Takehiko Sasaki*

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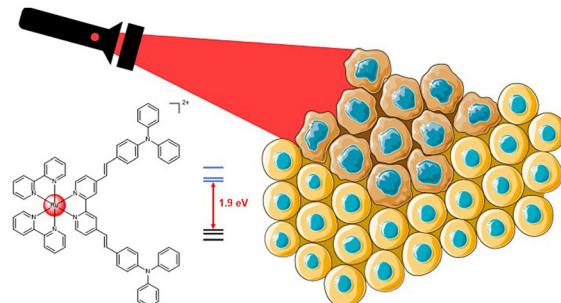
**A flexible rotator-expanded molecular framework integrated strategy for improving microviscosity sensitivity of molecular rotor probes**

Xiaofang Tang, Yaping Zhu, Weijiang Guan* and Chao Lu*



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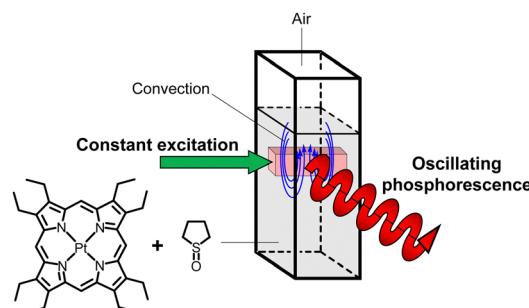
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Rational design of a red-light absorbing ruthenium polypyridine complex as a photosensitizer for photodynamic therapyAlessia Fennes, Nicolás Montesdeoca,
Zisis Papadopoulos and Johannes Kargas*

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Sustainable phosphorescent oscillators based on photochemical deoxygenation in convections

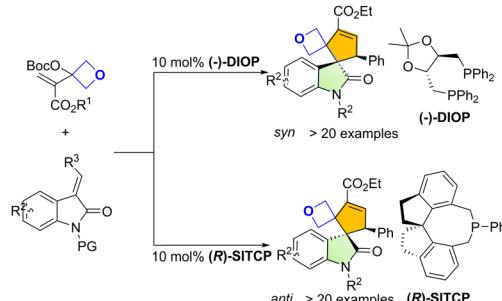
Hongqi Zhou, Sihan Chen, Jiang He and Wei Lu*



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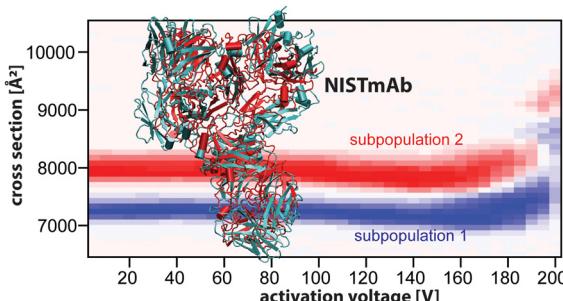
Molten-salt-induced structural heterogeneity of carbon nitride for efficient photocatalytic H₂O₂ productionYonghai Wang, Hui Zhang,* Deming Wei, Li Shangguan,
Yu Guo and Jianhua Sun*

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Phosphine-catalyzed enantioselective and diastereodivergent [3+2] cyclization for the construction of oxetane spirooxindole skeletonsXiao Han, Jie Hou, Haiyan Zhang, Zhen Wang* and
Weijun Yao*

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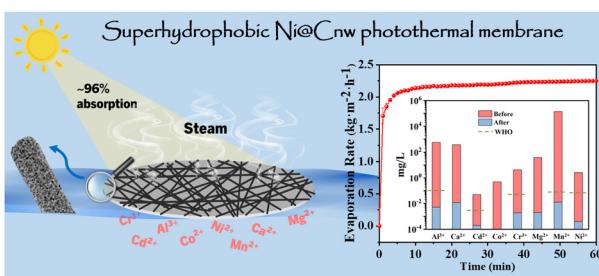
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Differential glycosylation does not modulate the conformational heterogeneity of a humanised IgGk NIST monoclonal antibody

Fanny C. Liu,* Jusung Lee, Thais Pedrete, Erin M. Panczyk, Stuart Pengelley and Christian Bleiholder*

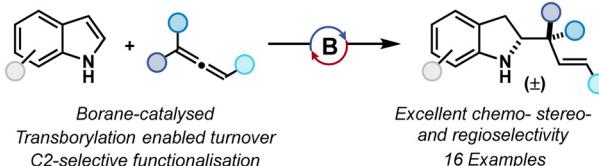
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A Ni@C nanowire-enabled photothermal membrane for highly efficient solar-driven interfacial water purification

Cailin Yang, Limingming Huang and Kai Han*

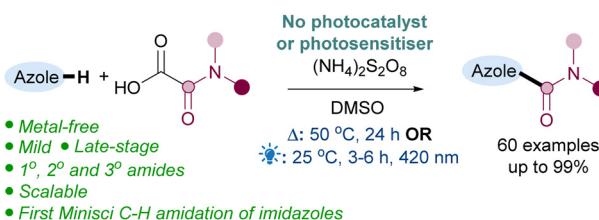
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Borane-catalysed C2-selective indole reductive functionalisation

Kieran Nicholson, Sarah L. McOnie, Thomas Langer, Gary S. Nichol and Stephen P. Thomas*

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Direct C–H amidation of 1,3-azoles: light-mediated, photosensitiser-free vs. thermal

David T. Mooney, Heather McKee, Tabea S. Batch, Samuel Drane, Peter R. Moore and Ai-Lan Lee*

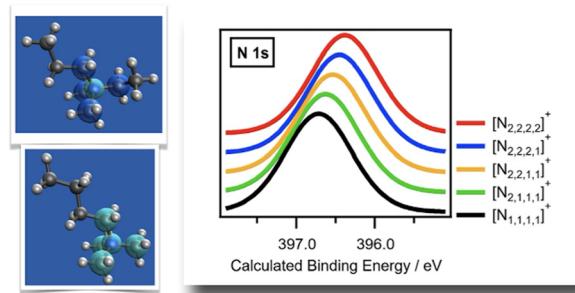


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Controlling and predicting alkyl-onium electronic structure

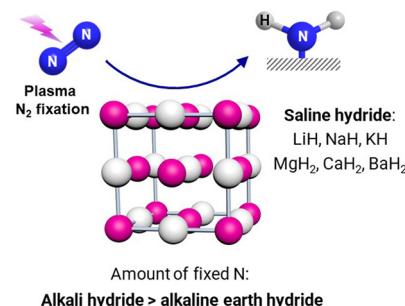
Frances K. Towers Tompkins, Lewis G. Parker, Richard M. Fogarty, Jake M. Seymour, Ekaterina Gousseva, David C. Grinter, Robert G. Palgrave, Christopher D. Smith, Roger A. Bennett, Richard P. Matthews* and Kevin R. J. Lovelock*



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Nitrogen fixation by alkali and alkaline earth metal hydrides assisted by plasma

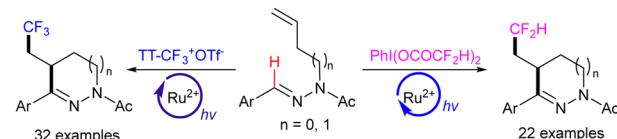
Han Wu, Kai Ma, Jiaqi Wen, Liang Yang, Yeqin Guan, Qianru Wang, Wenbo Gao, Jianping Guo* and Ping Chen



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Photocatalytic synthesis of polyfluoroalkylated dihydropyrazoles and tetrahydropyridazines

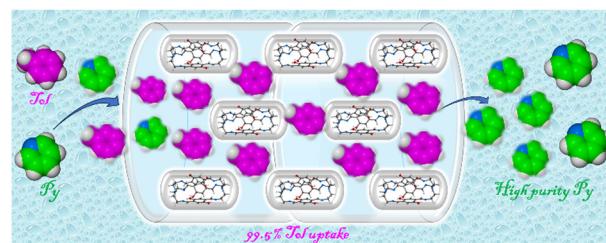
Lingli Liu, Chengli Xiang, Changduo Pan* and Jin-Tao Yu*



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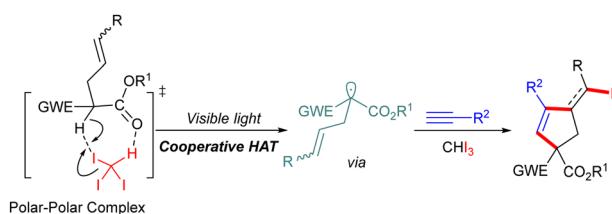
Polar organic cages for efficiently separating azeotropic mixtures

Lukman O. Alimi, Xin Liu, Gengwu Zhang, Basem Moosa and Niveen M. Khashab*



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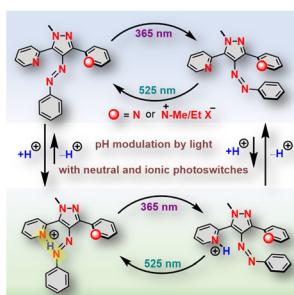
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Dispersion-induced cooperative hydrogen atom transfer for radical iodoalkylation

Shaoqun Zhu,* Lizi Jia, Qi Cheng, Ying Han, Qiu Sun, Huaguang Yu, Xiaoyun Chen and Hong Hou

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Neutral and ionic *N*-methyl phenylazo-3,5-(di-2-pyridyl)pyrazole photoswitches: probes for reversible pH modulation by light

Sapna Singh, Archana Velloth, Rajani, Manu Goyal, Navneet Kaur, Sanjay Singh* and Sugumar Venkataramani*