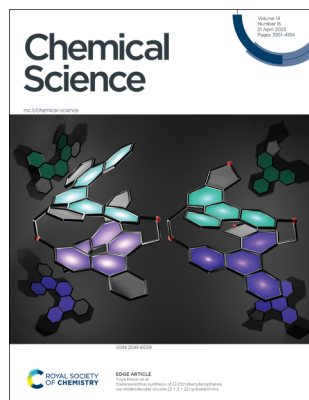


## IN THIS ISSUE

ISSN 2041-6539 CODEN CSHCBM 14(15) 3951–4194 (2023)



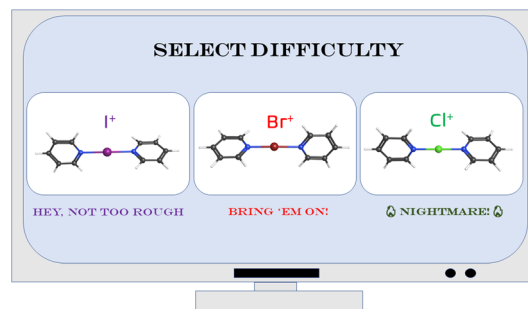
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## COMMENTARY

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### A focus on coordination chemistry at chlorine

Jason L. Dutton\*

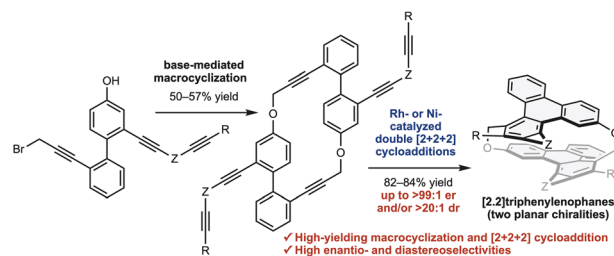


## EDGE ARTICLES

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### Stereoselective synthesis of [2.2]triphenylenophanes via intramolecular double [2 + 2 + 2] cycloadditions

Yuya Kawai, Juntaro Nogami, Yuki Nagashima and Ken Tanaka\*



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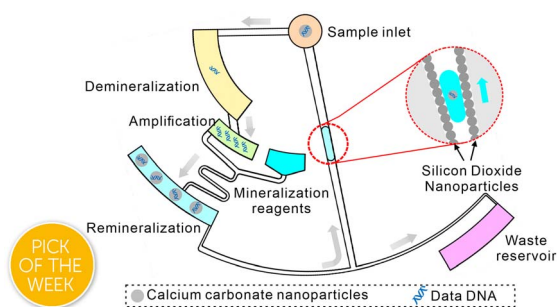
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### A nanoparticle-coated microfluidic chip for automated, non-destructive extraction of encapsulated DNA in data storage

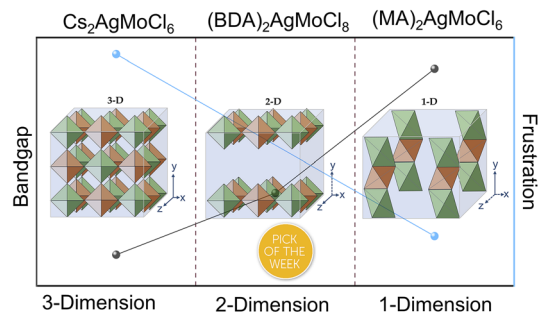
Chunyang Geng, Shaoqin Liu\* and Xingyu Jiang\*



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### Molybdenum chloride double perovskites: dimensionality control of optical and magnetic properties

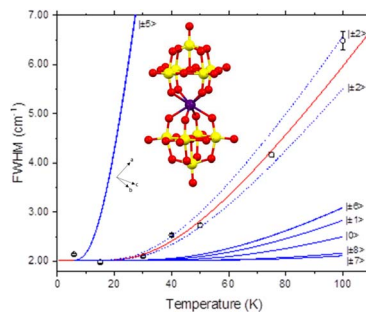
Devesh Chandra Binwal, Prashurya Pritam Mudoi, Debendra Prasad Panda and Pratap Vishnoi\*



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### Direct observation of magnetoelastic coupling in a molecular spin qubit: new insights from crystal field neutron scattering data

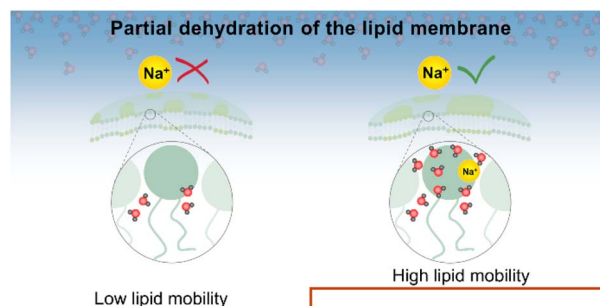
Maja A. Dunstan, Marcus J. Giansiracusa, Michele Vonci, Simone Calvello, Dehong Yu, Alessandro Soncini, Colette Boskovic and Richard A. Mole\*



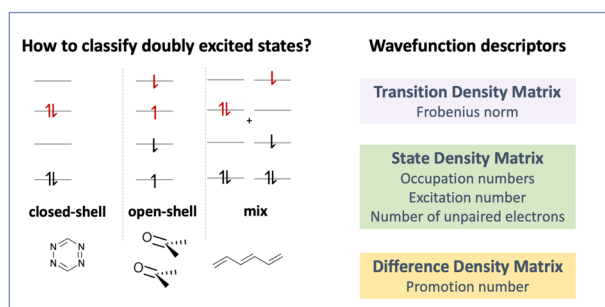
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### Cooperativity between sodium ions and water molecules facilitates lipid mobility in model cell membranes

Madhurima Chattopadhyay\*, Emilia Krok, Hanna Orlikowska-Rzeznik and Lukasz Piatkowski\*



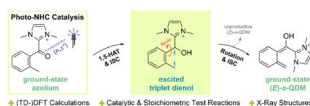
4012



## Classification of doubly excited molecular electronic states

Mariana T. do Casal, Josene M. Toldo, Mario Barbatti and Felix Plasser\*

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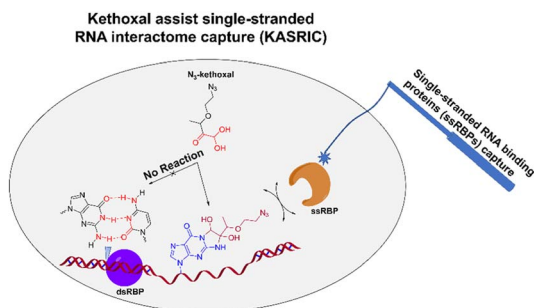


A full, concise reaction pathway for the PEDA catalysis cycle using NHC was identified by experiment and theory.

## A (TD)-DFT study on photo-NHC catalysis: photoenolization/Diels–Alder reaction of acid fluorides catalyzed by *N*-heterocyclic carbenes

Andreas Mavroskoufis, Manish Lohani, Manuela Weber, Matthew N. Hopkinson\* and Jan P. Götze\*

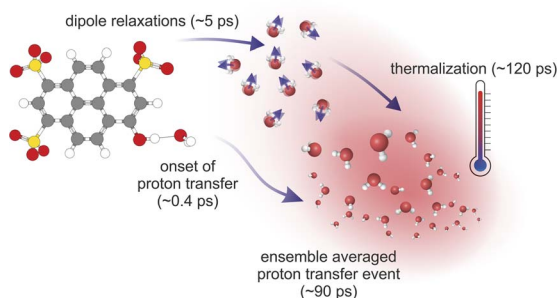
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## Transcriptome-wide identification of single-stranded RNA binding proteins

Ruiqi Zhao, Xin Fang, Zhibiao Mai, Xi Chen, Jing Mo, Yingying Lin, Rui Xiao, Xichen Bao,\* Xiaocheng Weng\* and Xiang Zhou\*

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## Caught in the act: real-time observation of the solvent response that promotes excited-state proton transfer in pyranine

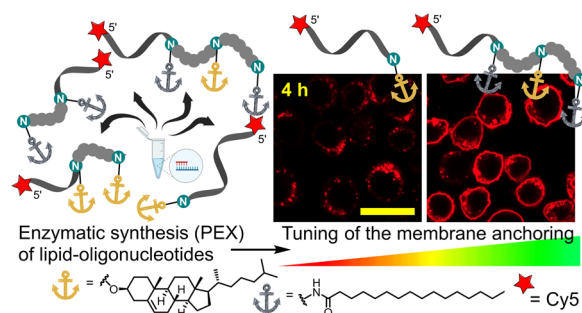
Claudius Hoberg, Justin J. Talbot, James Shee, Thorsten Ockelmann, Debasish Das Mahanta, Fabio Novelli, Martin Head-Gordon and Martina Havenith\*



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### Lipid-linked nucleoside triphosphates for enzymatic synthesis of hydrophobic oligonucleotides with enhanced membrane anchoring efficiency

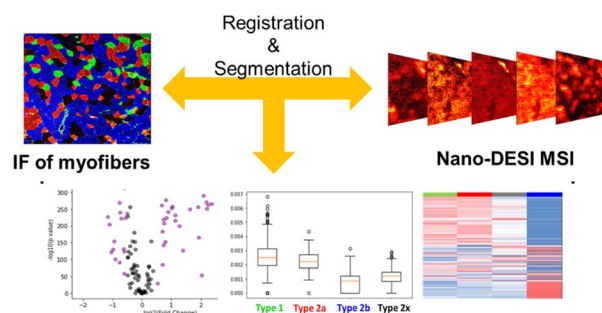
David Kodr, Erika Kuřmová, Radek Pohl, Tomáš Kraus\* and Michal Hocek\*



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### Multimodal high-resolution nano-DESI MSI and immunofluorescence imaging reveal molecular signatures of skeletal muscle fiber types

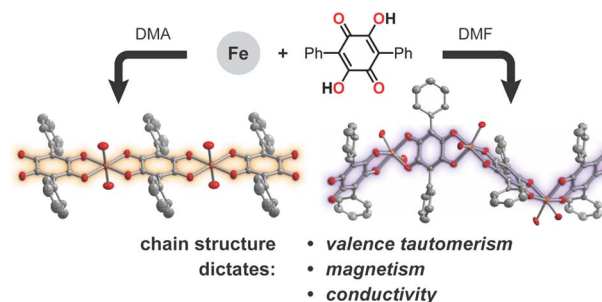
Daisy Unsihuay, Hang Hu, Jiamin Qiu, Alessandra Latorre-Palomino, Manxi Yang, Feng Yue, Ruichuan Yin, Shihuan Kuang and Julia Laskin\*



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### Geometry-dependent valence tautomerism, magnetism, and electrical conductivity in 1D iron-tetraoxolene chains

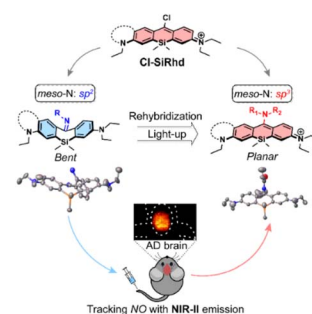
Ashlyn A. Kamin, Ian P. Moseley, Jeewhan Oh, E. J. Brannan, Paige M. Gannon, Werner Kaminsky, Joseph M. Zadrozny and Dianne J. Xiao\*



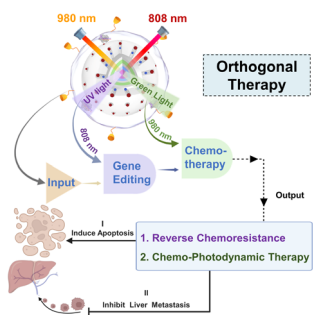
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### Bent-to-planar Si-rhodamines: a distinct rehybridization lights up NIR-II fluorescence for tracking nitric oxide in the Alzheimer's disease brain

Qingshuang Xu, Yutao Zhang, Mingming Zhu, Chenxu Yan, Wenle Mao, Wei-Hong Zhu and Zhiqian Guo\*



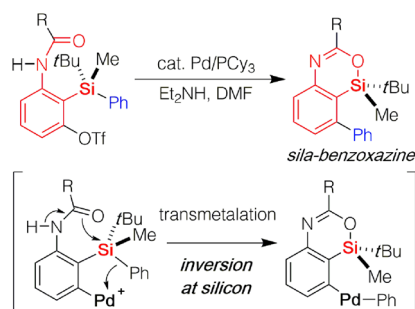
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### An orthogonally activatable CRISPR-Cas13d nanoprodruge to reverse chemoresistance for enhanced chemo-photodynamic therapy

Zheng Liu, Zhiyuan Feng, Mohan Chen, Jiayin Zhan, Rong Wu, Yang Shi, Yunsheng Xue, Ran Liu, Jun-Jie Zhu and Jingjing Zhang\*

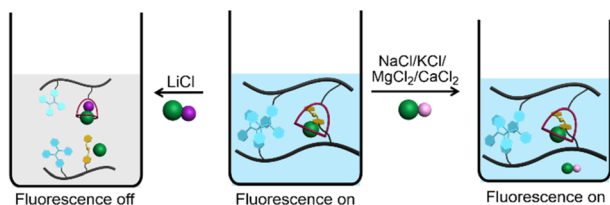
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### Palladium-catalyzed synthesis of 4-sila-4*H*-benzo[*d*] [1,3]oxazines by intramolecular Hiyama coupling

Donghyeon Lee and Ryo Shintani\*

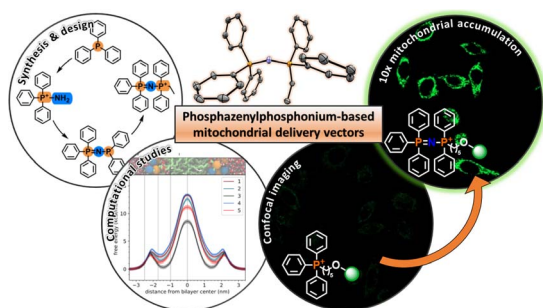
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### Fluorescent copolymer aggregate sensor for lithium chloride

Hu Wang, Leighton O. Jones, Tian Zhao, Inhong Hwang, Vincent M. Lynch, Niveen M. Khashab,\* George C. Schatz,\* Zachariah A. Page\* and Jonathan L. Sessler\*

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### Beyond the TPP<sup>+</sup> "gold standard": a new generation mitochondrial delivery vector based on extended PN frameworks

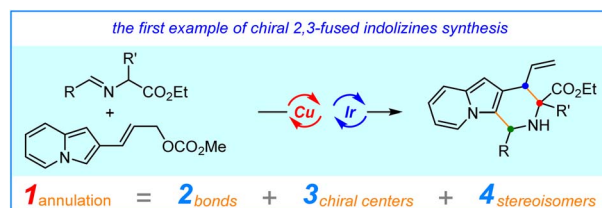
How Chee Ong, João T. S. Coimbra, Maria J. Ramos, Bengang Xing, Pedro A. Fernandes\* and Felipe García\*



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### Enantio- and diastereodivergent synthesis of fused indolizines enabled by synergistic Cu/Ir catalysis

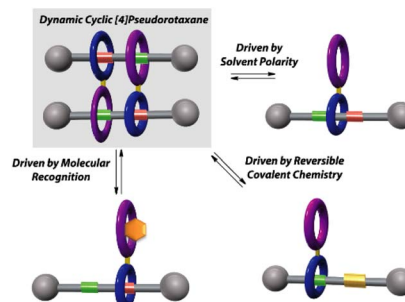
Bing-Ke Zhu, Hui Xu, Lu Xiao, Xin Chang, Liang Wei, Huailong Teng, Yanfeng Dang,\* Xiu-Qin Dong\* and Chun-Jiang Wang\*



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### Control of the assembly of a cyclic hetero[4]pseudorotaxane from a self-complementary [2]rotaxane

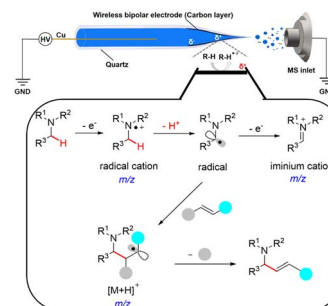
Adrian Saura-Sanmartin, Tomas Nicolas-Garcia, Aurelia Pastor, David Quiñonero, Mateo Alajarin, Alberto Martinez-Cuezva and Jose Berna\*



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### Fragile intermediate identification and reactivity elucidation in electrochemical oxidative $\alpha$ -C(sp<sup>3</sup>)-H functionalization of tertiary amines

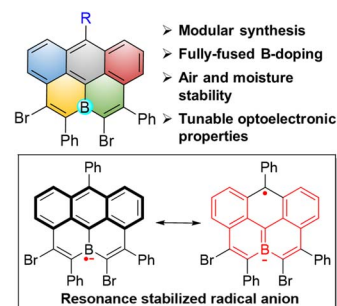
Kailun Liang, Dongmei Zhang, Yanming Su, Lijun Lu, Jun Hu, Yi-Hung Chen,\* Xinxing Zhang,\* Aiwen Lei\* and Hong Yi\*



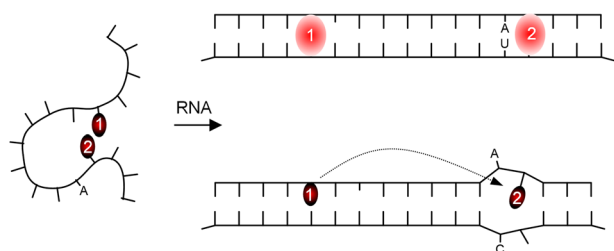
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### Fully-fused boron-doped olympicenes: modular synthesis, tunable optoelectronic properties, and one-electron reduction

Jing Guo, Kaihua Zhang, Yanpei Wang, Haipeng Wei, Wang Xiao, Kun Yang\* and Zebing Zeng\*



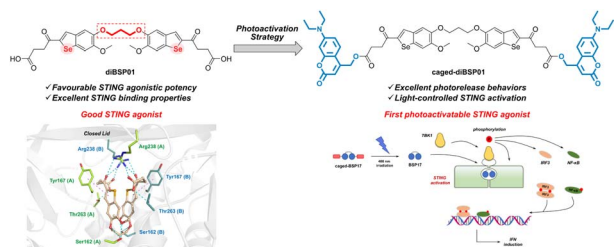
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### Double FIT hybridization probes – towards enhancing brightness, turn-on and specificity of RNA detection

Sophie Schöllkopf, Andrea Knoll, Amal Homer and Oliver Seitz\*

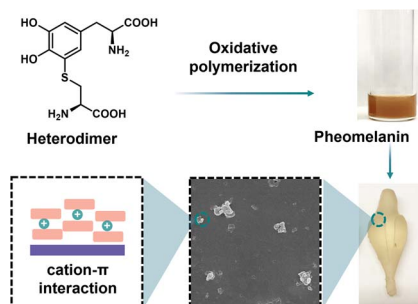
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### Discovery of a photoactivatable dimerized STING agonist based on the benzo[*b*]selenophene scaffold

Dongyu Liu, Bin Yu, Xin Guan, Bin Song, Huikai Pan, Renbing Wang, Xi Feng, Lixia Pan, Huidan Huang,\* Zhe Wang, Hongxi Wu, Zhixia Qiu, Zhiyu Li\* and Jinlei Bian\*

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### Biomimetic pheomelanin to unravel the electronic, molecular and supramolecular structure of the natural product

Wei Cao,\* Haochuan Mao, Naneki C. McCallum, Xuhao Zhou, Hao Sun, Christopher Sharpe, Joanna Korpanty, Ziyang Hu, Qing Zhe Ni, Michael D. Burkart, Matthew D. Shawkey, Michael R. Wasielewski and Nathan C. Gianneschi\*

