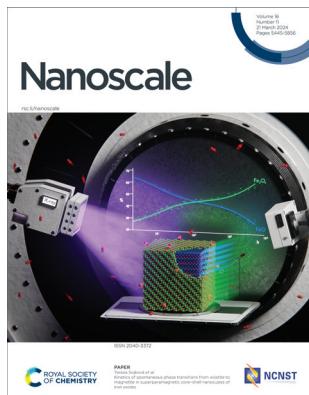


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### Cover

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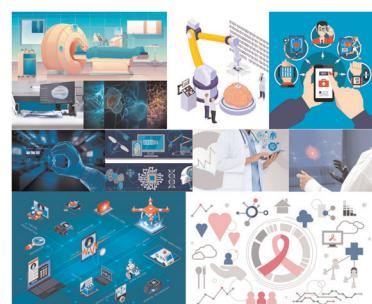
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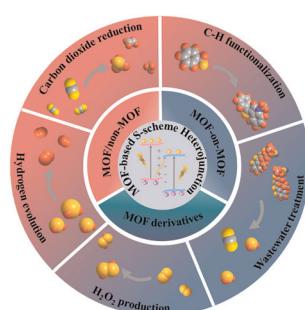
Vibhas Chugh, Adreeja Basu, Ajeet Kaushik, Manshu, Shekhar Bhansali and Aviru Kumar Basu\*



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Ling Yuan, Peiyang Du, Luli Yin, Jiamin Yao, Jing Wang\* and Chao Liu\*



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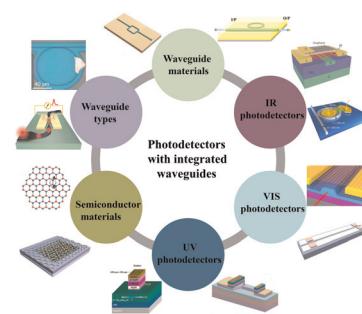
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Xin-Xue Wang, Guang Zeng, Qiu-Jun Yu, Lei Shen, Cai-Yu Shi and Hong-Liang Lu\*

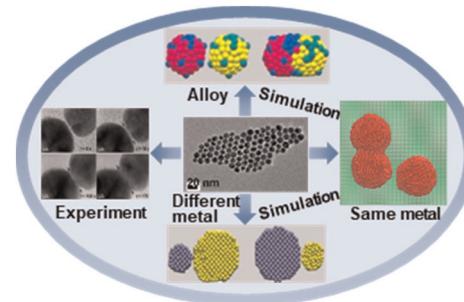


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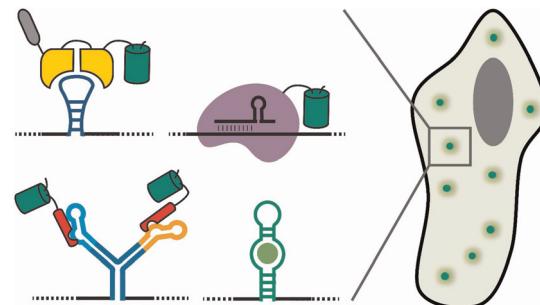
Liang Jiang, Yongxin Guo, Zhihui Liu and Shuai Chen\*



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Tien G. Pham and Jiahui Wu\*

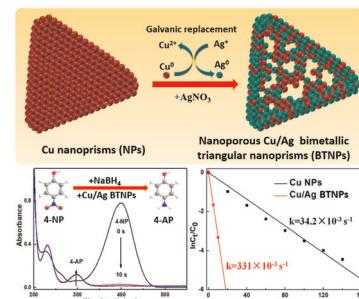


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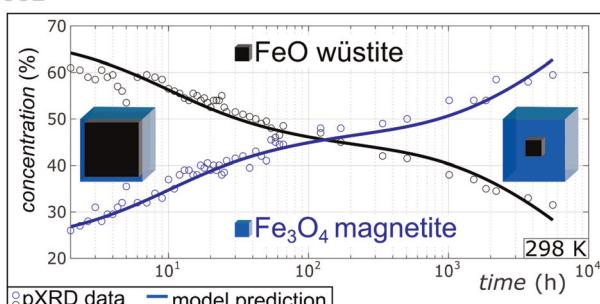
**Fast synthesis of nanoporous Cu/Ag bimetallic triangular nanoprisms *via* galvanic replacement for efficient 4-nitrophenol reduction**

Qiang Liu, Xuelian Lyu, Qiusui Chen, Yanmin Qin, Xing Wang, Chen Li, Zheng Fang\* and Haifeng Bao\*



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**Kinetics of spontaneous phase transitions from wüstite to magnetite in superparamagnetic core–shell nanocubes of iron oxides**

Tereza Sojková,\* Roman Gröger, Jakub Poloprudský, Ivo Kuběna, Oldřich Schneeweiss, Martin Sojka, Zuzana Šíška, Jakub Pongrácz and Naděžda Pizúrová

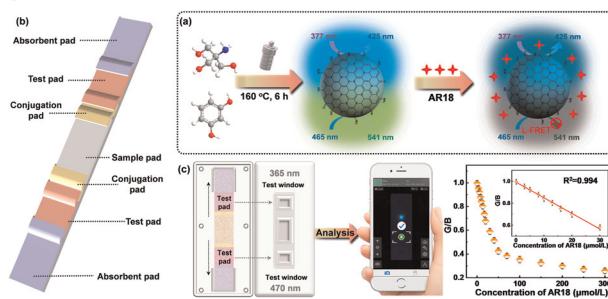
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Paramita Koley, Ranjithkumar Jakkula, Tayebeh Hosseininejad, Selvakannan Periasamy and Suresh K. Bhargava\*

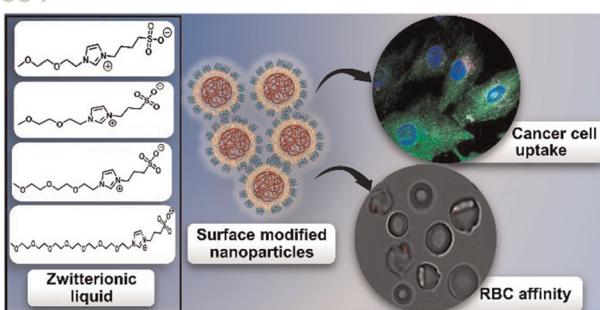
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Gaya S. Dasanayake, Christine M. Hamadani, Gagandeep Singh, Sandeep Kumar Misra, Priyavrat Vashisth, Joshua S. Sharp, Laxmi Adhikari, Gary A. Baker and Eden E. L. Tanner\*

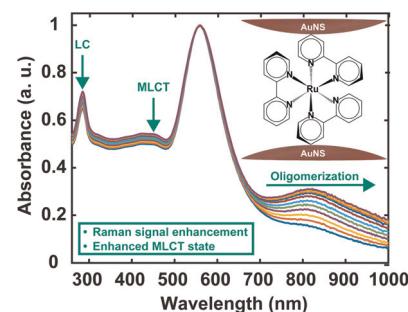


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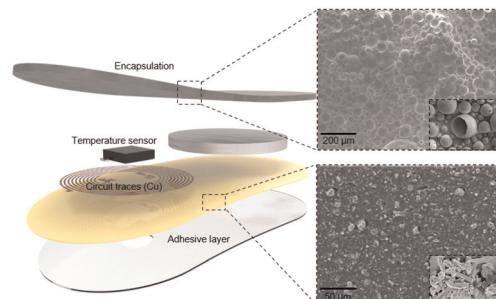
Umar Yunusa, Natalie Warren, David Schauer, Prasenjit Srivastava and Emily Sprague-Klein\*



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**Optimal bilayer composites for temperature-tracking wireless electronics**

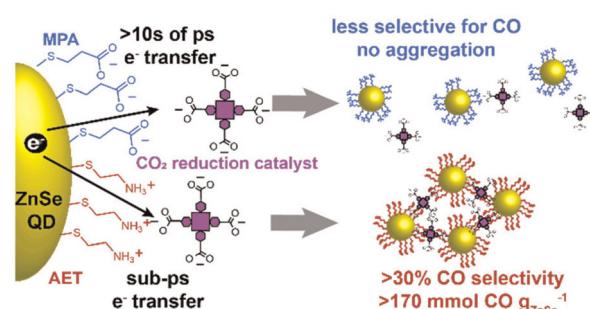
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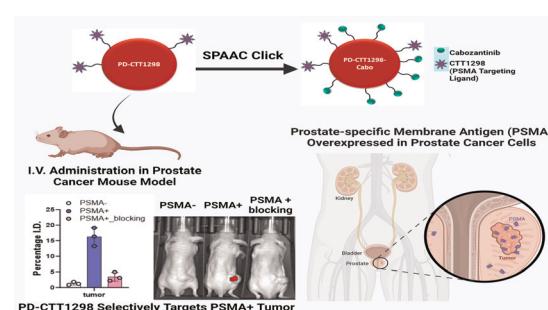
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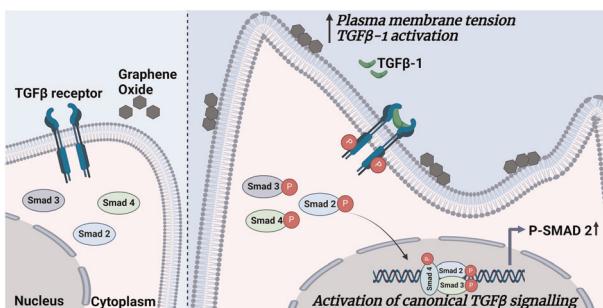
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## PAPERS

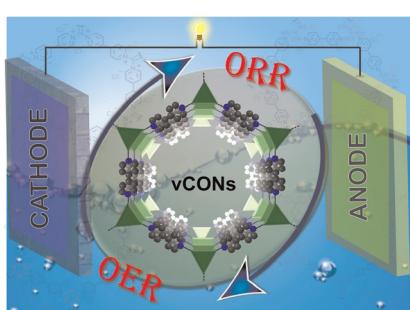
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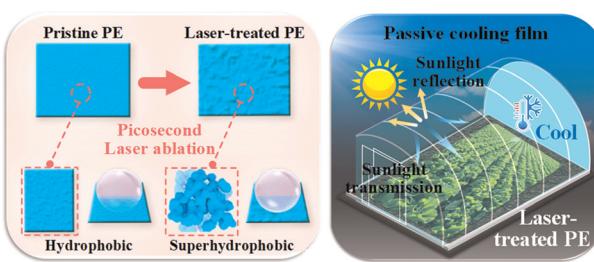
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### Reticular synthesis of two-dimensional ionic covalent organic networks as metal-free bifunctional electrocatalysts for oxygen reduction and evolution reactions

Pampa Jhariat, Arjun Warrier, Ananta Sasmal, Subhadip Das, Shafeeq Sarfudeen, Priyanka Kumari, Arpan Kumar Nayak and Tamas Panda\*

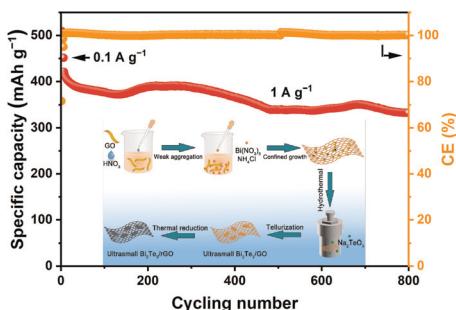
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Zhuoying Cheng, Zhuo Li, Yuao Wang, Yiyang Mao, Jun Yan,\* Dianxue Cao and Kai Zhu\*

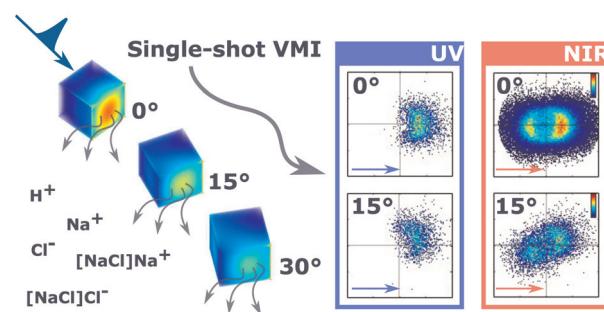


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**Ion imaging of spatially inhomogeneous nanoplasmas in NaCl particles**

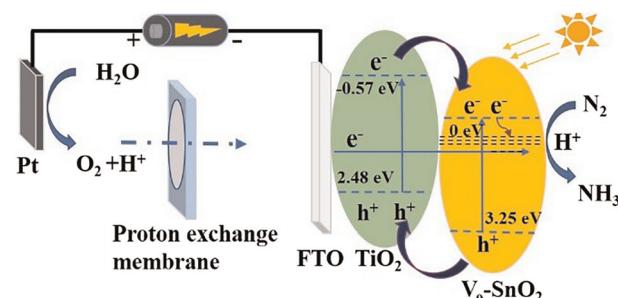
Loren Ban,\* Hanchao Tang, Jonas Heitland, Christopher W. West, Bruce L. Yoder, Ioannis Thanopoulos and Ruth Signorell\*



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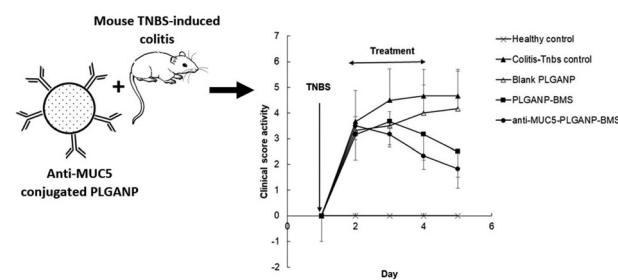
Junbo Ma, Jiangjian Fu, Lan Sun,\* Jun Cheng\* and Jian-Feng Li\*



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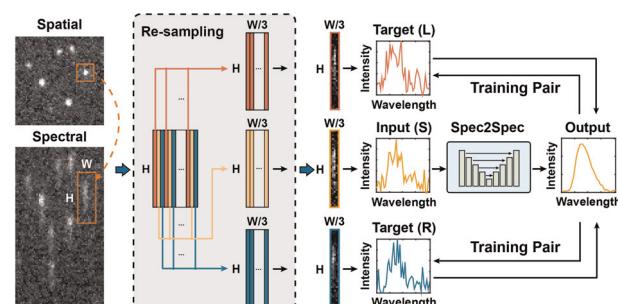
Bernadette Riemann, Thomas Antoine, Arnaud Béduneau, Yann Pellequer, Alf Lamprecht and Brice Moulari\*



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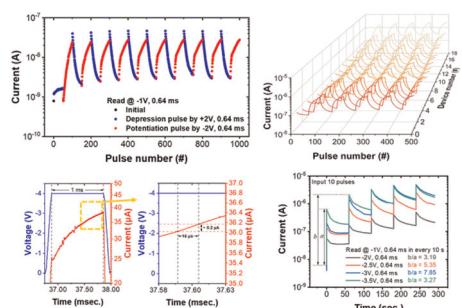
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Dandan Xu, Yuanjie Gu, Jun Lu, Lei Xu, Wei Wang and Binqin Dong\*



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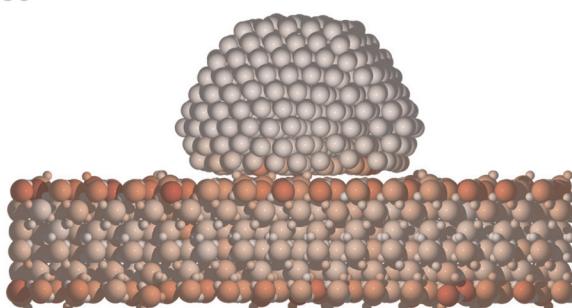
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Boyoung Jeong, Peter Hayoung Chung, Jimin Han, Taeyun Noh and Tae-Sik Yoon\*

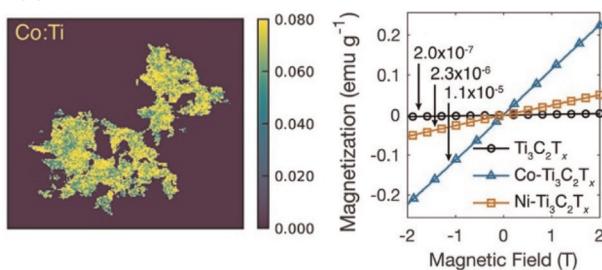
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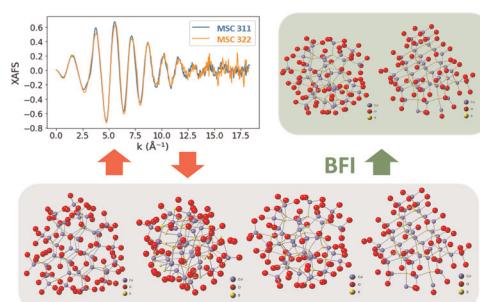
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### Quantifying intuition: Bayesian approach to figures of merit in EXAFS analysis of magic size clusters

Lucy Haddad,\* Diego Gianolio, David J. Dunstan, Ying Liu, Conor Rankine and Andrei Sapelkin

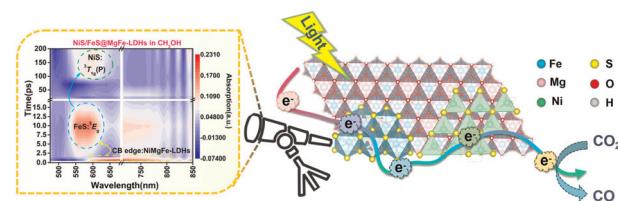


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**In situ topotactic formation of an inorganic intergrowth bulk NiS/FeS@MgFe-LDH heterojunction to simulate CODH for the photocatalytic reduction of CO<sub>2</sub>**

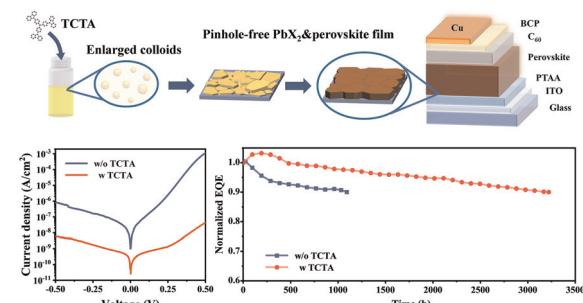
Yuxian Li, Wenli Su, Xiaoyan Wang, Jun Lu,\* Wenkai Zhang\* and Shuo Wei\*



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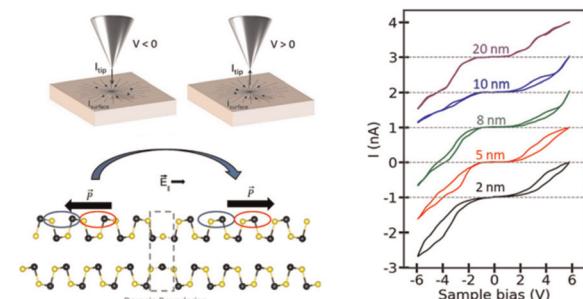
Guo He, Dezhi Yang,\* Sizhe Tao, Liqing Yang, Dechao Guo, Jingbo Zheng, Ji Li, Jiangshan Chen and Dongge Ma\*



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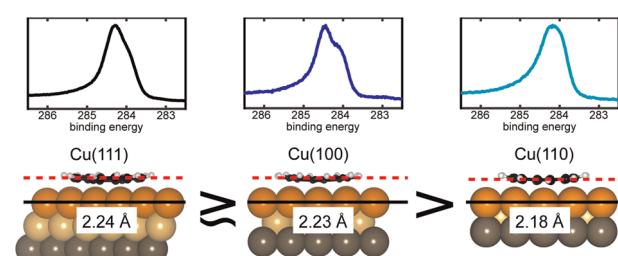
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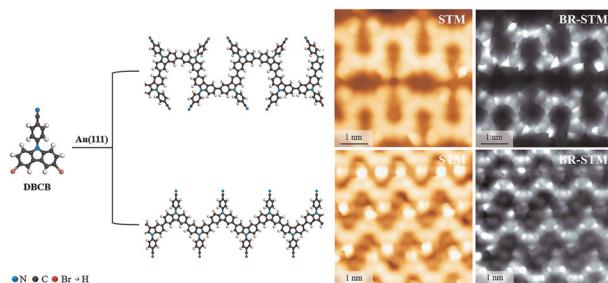
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Boyu Fu, Jianchen Lu,\* Jianqun Geng, Yong Zhang, Shijie Sun, Wei Xiong, Yi Zhang, Gefei Niu, Lei Gao\* and Jinming Cai\*

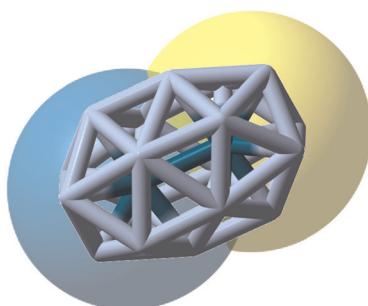
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**Hybrid quantum-classical polarizability model for single molecule biosensing**

Ekaterina Zossimova,\* Johannes Fiedler, Frank Vollmer and Michael Walter

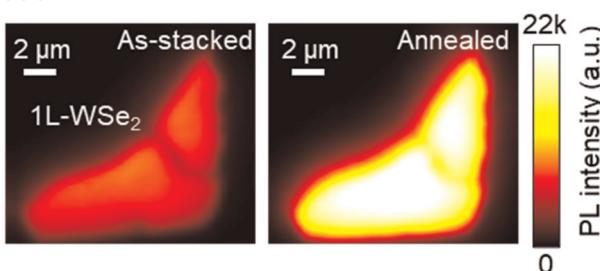
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**Ligand-free supermolecules:  $[Pd_2@Ge_{18}]^{4-}$  and  $[Pd_2@Sn_{18}]^{4-}$  as multiple-bonded Zintl-ion clusters based on  $Pd@Ge_9$  and  $Pd@Sn_9$  assembled units**

Peter L. Rodríguez-Kessler and Alvaro Muñoz-Castro\*

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Huije Ryu, Seong Chul Hong, Kangwon Kim, Yeonjoon Jung, Yangjin Lee, Kihyun Lee, Youngbum Kim, Hyunjun Kim, Kenji Watanabe, Takashi Taniguchi, Jeongyang Kim, Kwanpyo Kim, Hyeonsik Cheong and Gwan-Hyoung Lee\*



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Zhongmin Wan, Linqing Wang, Yuheng Zhou,  
Siyuan Xu, Jing Zhang, Xi Chen, Shi Li, Changjie Ou\*  
and Xiangzhong Kong\*

