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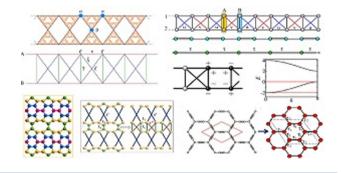
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Application of the real space decimation method in determining intricate electronic phases of matter: a review

Amrita Mukherjee, Arka Bandyopadhyay and Debnarayan Jana*

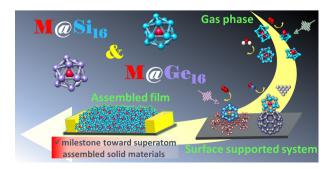


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Bridging the gas and condensed phases for metal-atom encapsulating silicon- and germanium-cage superatoms: electrical properties of assembled superatoms

Takaho Yokoyama and Atsushi Nakajima*



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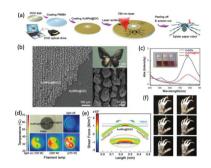
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Laser defined and driven bio-inspired soft robots toward complex motion control

Monan Liu, Qing Wang, Ai-Wu Li* and Hong-Bo Sun

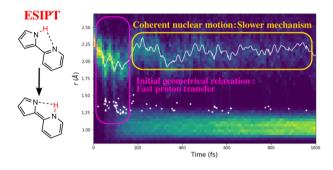


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ESIPT in the pyrrol pyridine molecule: mechanism, timescale and yield revealed using dynamics simulations

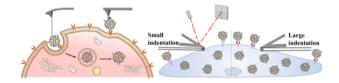
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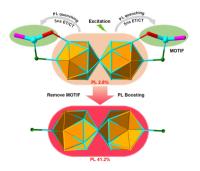
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Xiaowan Zhang, Meirong Shan, Siying Li, Jing Zhao, Xuelei Pang, Guocheng Yang and Yuping Shan*



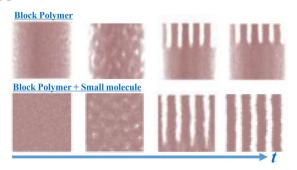
Au₁₀Ag₁₇(TPP)₁₀(SR)₆Cl₅ nanocluster: structure, transformation and the origin of its photoluminescence

Along Ma, Jiawei Wang, Jie Kong, Yonggang Ren, Yuxuan Wang, Xiaoshuang Ma, Meng Zhou* and Shuxin Wang*



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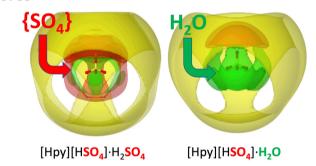


Catalytic assembly of symmetric diblock copolymers in a thin film: a dissipative particle dynamics simulation study

Tongwei Chen, Yunhan Zhang,* Shiyan Xiao, Dongbao Yao, Wei Jiang* and Haojun Liang*

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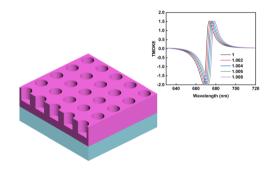
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Anne McGrogan, Emily L. Byrne, Robert Guiney, Thomas F. Headen, Tristan G. A. Youngs, Anna Chrobok, John D. Holbrey* and Małgorzata Swadźba-Kwaśny*

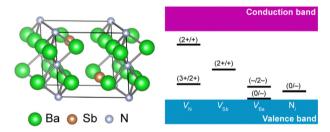
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Weiwei Zhang,* Guoqiang Du, Hongming Chen and Kang An*

Defect-tolerant antiperovskite Ba₃SbN



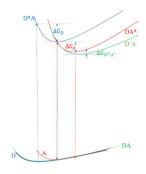
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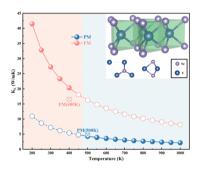
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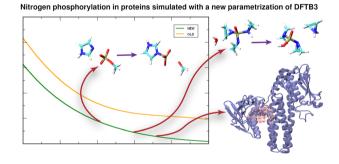
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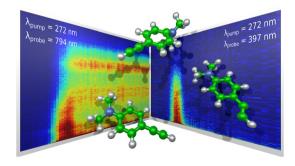
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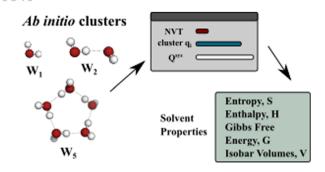


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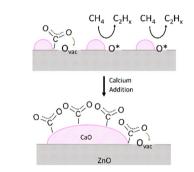
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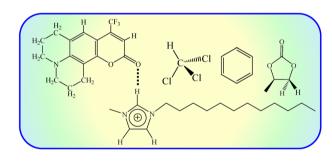
Appropriate clusterset selection for the prediction of thermodynamic properties of liquid water with QCE theory

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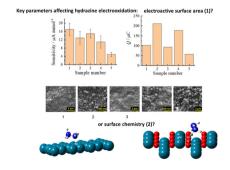
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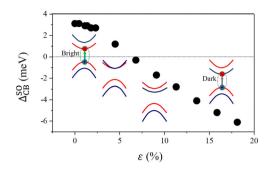
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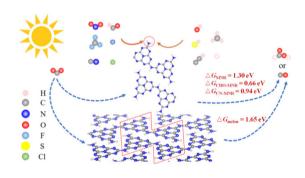
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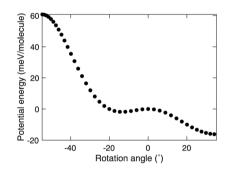
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Unique features of the structural phase transition in acetylene showing simultaneous characteristics of reconstructive, displacive and order-disorder

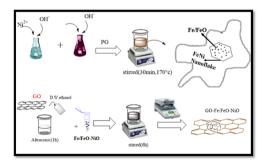
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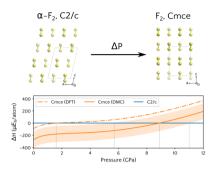


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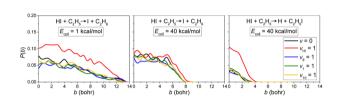




Pressure-induced second-order phase transition in fluorine

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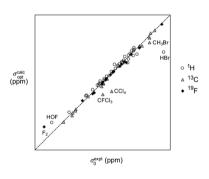
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Vibrational mode-specific quasi-classical trajectory studies for the two-channel HI + C2H5 reaction

Cangtao Yin* and Gábor Czakó*

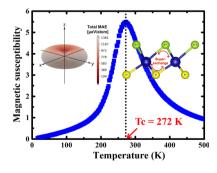
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Simple, accurate, adjustable-parameter-free prediction of NMR shifts for molecules in solution

Emlyn M. Hoyt, Lachlan O. Smith and Deborah L. Crittenden*

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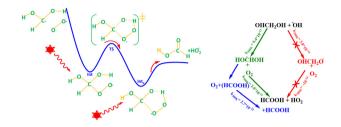
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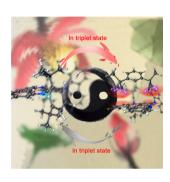
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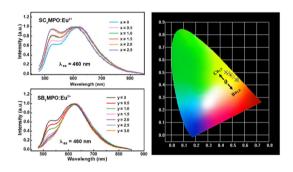
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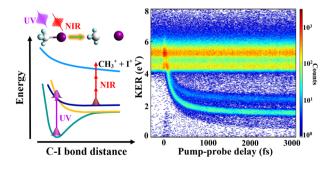
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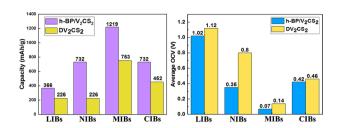
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Single- and multi-photon-induced ultraviolet excitation and photodissociation of CH3I probed by coincident ion momentum imaging

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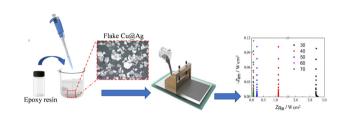
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Comparative studies of hexagonal boron phosphide/V₂CS₂ heterostructure and homogeneous bilayers as metal-ion battery anodes

Xian Yuan, Zhongyong Zhang, Yuping He and Naigen Zhou*

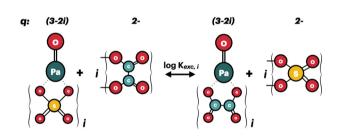
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Effect of flake silver-plated copper particles on the property enhancement of electrically conductive adhesives

Na Cheng, Zhi Sun, Xiaohui Yu,* Qianzhen Yu and Jianwei Zhao*

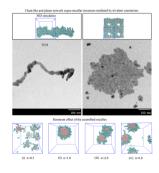
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Coordination and thermodynamic properties of aqueous protactinium(v) by first-principle calculations

Hanna Oher, Jérémy Delafoulhouze, Eric Renault, Valérie Vallet and Rémi Maurice*

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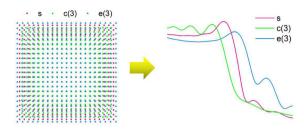
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Liyan Liu,* Fujia Wang, Xinyi Liu, Lide Guo, Xiujun Gao and Hongge Tan*

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Baodong Gai,* Jingwei Guo and Yugi Jin



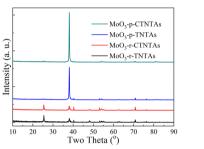
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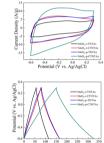
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Liujie Wang, Pengfa Li, Jie Yang, Zhihua Ma* and Laiping Zhang*

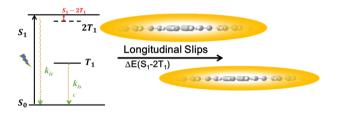




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Design of BPEA-based derivatives with high singlet fission performance: a theoretical perspective

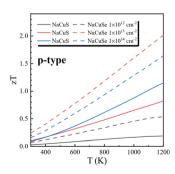
Jian Song,* Hongjin Li, Zhongpo Zhou, Yonggang Yang,* ChaoChao Qin and Yufang Liu



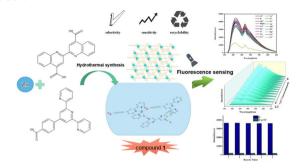
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Thermoelectric response of single quintuple layer sodium copper chalcogenides persisting at high temperature

Yuhong Huang, Xuanhong Zhong, Zhuyu Feng, Shujing Lin, Hongkuan Yuan and Hong Chen*



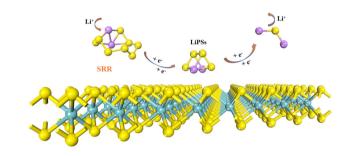
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A Zn-coordination polymer as a multifunctional fluorescent probe for the detection of $V_2O_7^{4-}$, Fe^{3+} , and p-nitrotoluene

Shengsheng Qi, Zhang Li, Yuejiao Jia, Dechao Li and Ming Hu*

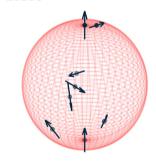
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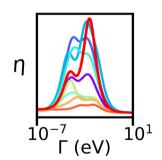


A theoretical study of the NbS₂ monolayer as a promising anchoring material for lithium-sulfur batteries

Xinxin Zhang, Xiaocheng Zhou,* Yu Wang and Yafei Li*

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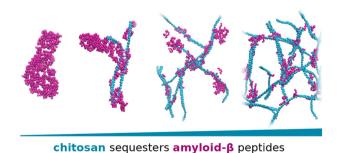




From Goldilocks to twin peaks: multiple optimal regimes for quantum transport in disordered networks

Alexandre R. Coates, Brendon W. Lovett and Erik M. Gauger*

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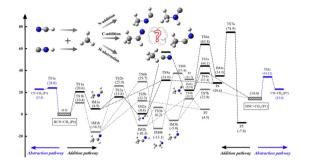
Mechanistic insights into the inhibition of amyloid-ß aggregation by chitosan

Suhas Gotla and Silvina Matysiak*

10121

Theoretical study on the kinetics of hydrogen cyanide and hydrogen isocyanide reactions with the methyl radical

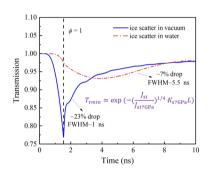
Jibiao Xie and Jinou Song*



10129

Insights into water freezing from classical nucleation theory

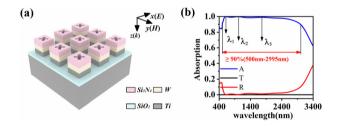
Xichen Huang, Yanyun Sun,* Xiaoxi Tan, Chaobo Zhang, Yu Huang, WenQiang Liao and Fusheng Liu



10136

Metamaterial ultra-wideband solar absorbers based on a multi-layer structure with cross etching

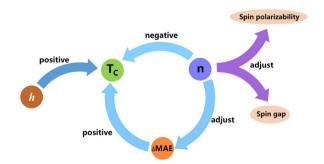
Pengfei Sun, Hengli Feng, Lijing Su, Sihan Nie, Xin Li, Yaxin Zhou, Lingling Ran and Yang Gao*



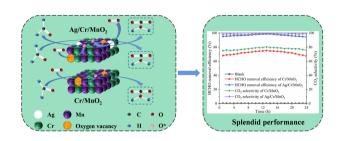
10143

Ferromagnetic vanadium disulfide VS₂ monolayers with high Curie temperature and high spin polarization

Hao-Jia Wu, Yu-Lu Wan, Zhao-Yi Zeng, Cui-E Hu,* Xiang-Rong Chen* and Hua-Yun Geng



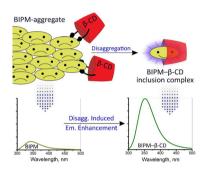
10155



Ag-promoted Cr/MnO₂ catalyst for catalytic oxidation of low-concentration formaldehyde at room temperature

Chaomin Duan, Mianwu Meng,* Huang Huang,* Heng Wang,* Hua Ding and Qi Zhang

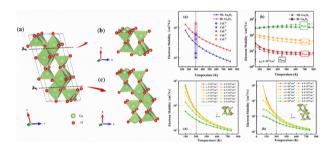
10166



Disaggregation-induced resurgence of quenched emission of a self-assembled bis-indole system: photophysics, energetics, and dynamics

Provakar Paul, Saikat Samanta, Arunavo Chatteriee. Arabinda Mallick* and Tapas Majumdar*

10175



Nontrivial role of polar optical phonons in limiting electron mobility of two-dimensional Ga₂O₃ from first-principles

Xinlei Duan, Tianyu Wang, Zhiwei Fu, Linhua Liu* and Jia-Yue Yang*

CORRECTIONS

10184

Correction: 5D total scattering computed tomography reveals the full reaction mechanism of a bismuth vanadate lithium ion battery anode

Jonas Sottmann, Amund Ruud, Øystein S. Fjellvåg, Gavin B. M. Vaughan, Marco Di Michel, Helmer Fjellvåg, Oleg I. Lebedev, Ponniah Vajeeston and David S. Wragg*

CORRECTIONS

10185

Correction: Atmospheric chemistry of (Z)- and (E)-1,2-dichloroethene: kinetics and mechanisms of the reactions with Cl atoms, OH radicals, and O₃

Mads P. Sulbaek Andersen,* Aleksandra Volkova, Sofie A. Hass, Jonathan W. Lengkong, Dvien Hovanessian, Theis I. Sølling, Timothy J. Wallington and Ole J. Nielsen

10186

Correction: Atmospheric chemistry of CF₃CN: kinetics and products of reaction with OH radicals, Cl atoms

Mads Peter Sulbaek Andersen,* Joanna Ohide, Theis I. Sølling and Ole John Nielsen