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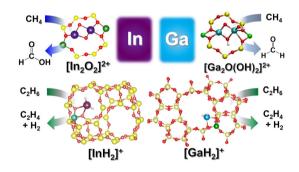
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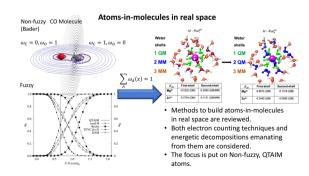
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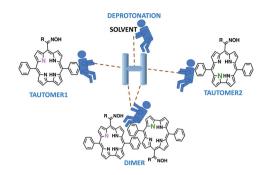
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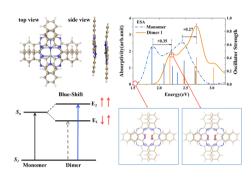
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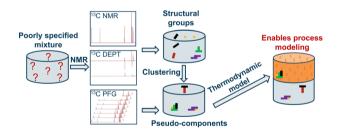
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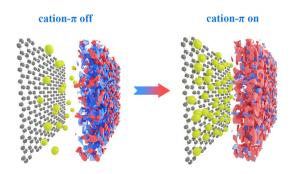
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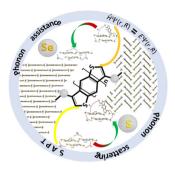
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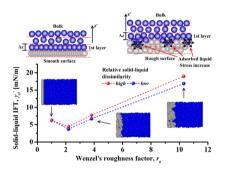
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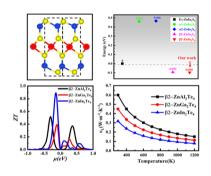
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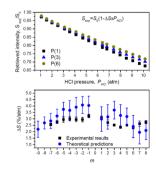
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Li Shi, Chunyan Lv,\* Haoran Wei, Wangping Xu,\* Rui Wang, Jing Fan and Xiaozhi Wu\*

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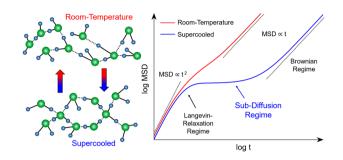
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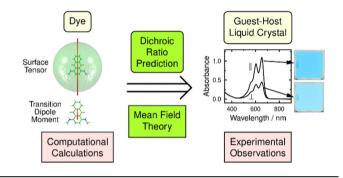
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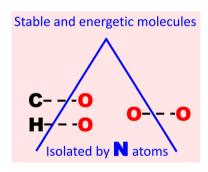
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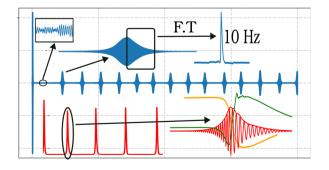
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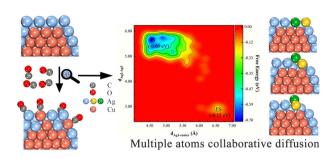
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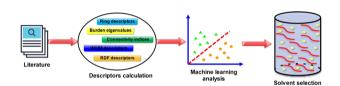
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Xue Yan, Xiangxiang Wang, Jingli Han, Xiangjian Du, Zhongyi Liu and Yongpeng Yang\*

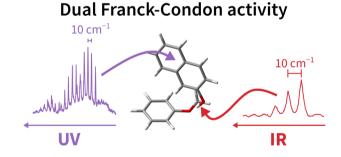
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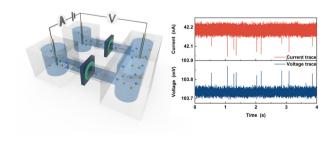
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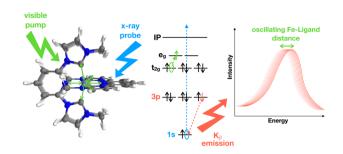
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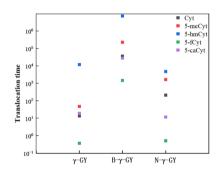
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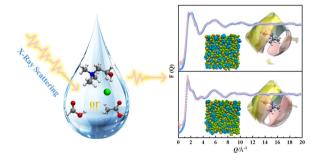
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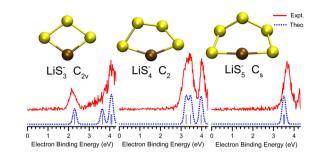
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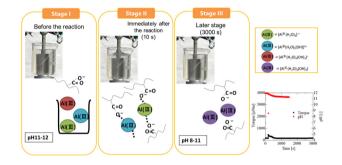
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Zhen-Chao Long, Zhi-You Wei, Kai-Wen Liu, Xi-Long Li, Xi-Ling Xu, Hong-Guang Xu and Wei-Jun Zheng\*

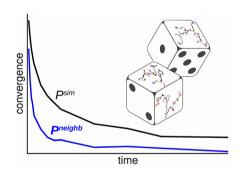
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Sae Hirano, Yuichiro Nagatsu, Ryuta X. Suzuki and Jun lijima\*

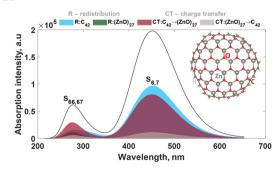
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Adolfo Bastida,\* José Zúñiga, Beatriz Miguel and Miguel A. Soler\*

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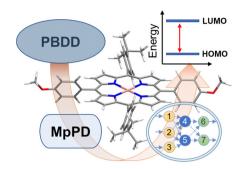
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Ivan Shtepliuk\* and Rositsa Yakimova

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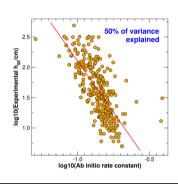
An Su,\* Xin Zhang, Chengwei Zhang, Debo Ding, Yun-Fang Yang, Keke Wang and Yuan-Bin She\*



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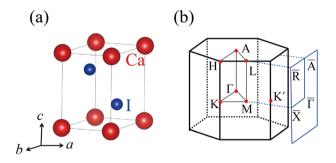
Romain Claveau, Julien Glorian and Didier Mathieu\*



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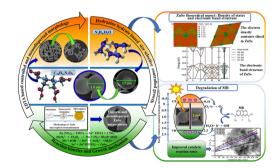
Meng-Xin Wu, Da-Shuai Ma,\* Tie Yang, Yu-Hao Wei, Ke Chai, Peng Wang, Biao Wang and Min-Quan Kuang\*



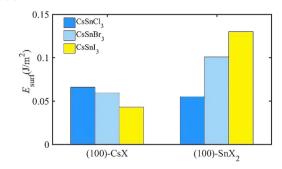
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Prachi Chopade, Vikas Kashid, Niteen Jawale, Sunit Rane, Shweta Jagtap,\* Anjali Kshirsagar and Suresh Gosavi\*



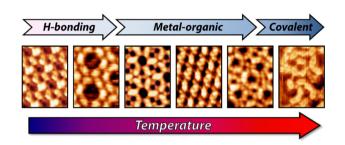
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Yan-Jin Chen, Chunju Hou and Yi Yang\*

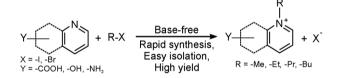
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Nataliya Kalashnyk, Adam Hassan Denawi, Frédéric Dumur, Didier Gigmes, Xavier Bouju\* and Sylvain Clair\*

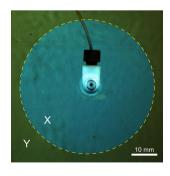
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Supphachok Chanmungkalakul, Shiqing Huang, Xia Wu, Esther Cai Xia Ang, Zi-Qi Yang, Yongxin Li, Xiaoyu Yan, Choon-Hong Tan, Davin Tan and Xiaogang Liu\*

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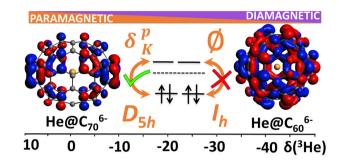
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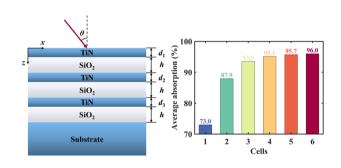
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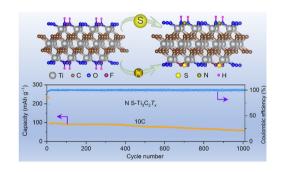
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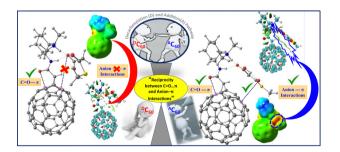
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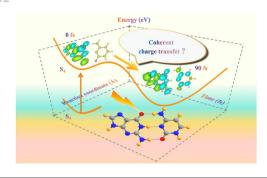
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Reciprocity of C= $O \cdot \cdot \cdot \pi$  interactions with the dominant anion- $\pi$  on fullerene (C<sub>60</sub>)- amine-based organocatalysts: a mechanistic elucidation for addition vs. decarboxylation reaction

Murugesan Panneerselvam, Hiregange Akash and Archita Patnaik\*



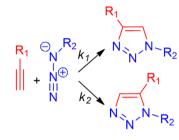
#### 10661



## The dynamical temporal behaviors of guanine-cytosine coherent charge transfer

Lixia Zhu, Qiao Zhou, Yongfeng Wan, Qi Li, Yu Wan, Hang Yin and Ying Shi\*

#### 10671



 $E_1 = 82 \text{ kJ mol}^{-1}$  $A_{ef.1} = 8.4 \times 10^7 \, \text{s}^{-1}$  $\Delta H_1 = -280 \text{ kJ mol}^{-1}$  $\Delta S_1^{\neq} = -114 \text{ J K}^{-1} \text{ mol}^{-1}$ 

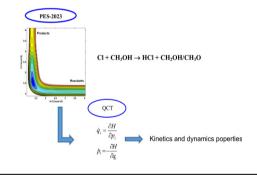
 $E_2 = 82 \text{ kJ mol}^{-1}$  $A_{ef.2} = 4.7 \times 10^7 \,\mathrm{s}^{-1}$  $\Delta H_2 = -280 \text{ kJ mol}^{-1}$  $\Delta S_{2}^{\neq} = -118 \text{ J } K^{-1} \text{ mol}^{-1}$ 

#### CONCERTEDLY!

## Probing kinetic and mechanistic features of bulk azide-alkyne cycloaddition

Andrey Galukhin,\* Roman Aleshin, Roman Nosov and Sergey Vyazovkin\*

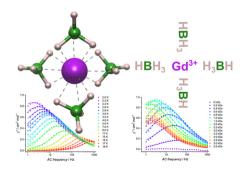
#### 10678



## Kinetics and dynamics study of the Cl(2P) + CH3OH reaction based on an analytical potential energy surface

Cipriano Rangel and Joaquin Espinosa-Garcia\*

## 10689



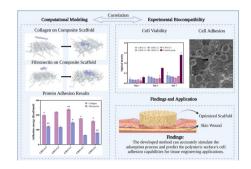
## Approaching the free-ion limit in magnetically isotropic gadolinium(III) via borohydride ligands

Michał Magott\* and Wojciech Wegner\*

#### 10697

Investigating the correlation between the protein adhesion simulation and the biocompatibility of polymeric substrate for skin-tissue-engineering applications

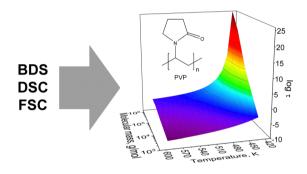
Saeed Seifi, Mohammad Ali Bakhtiari, Hossein Shaygani, Amir Shamloo\* and Aram Almasi-Jaf



#### 10706

Some aspects of the glass transition of polyvinylpyrrolidone depending on the molecular mass

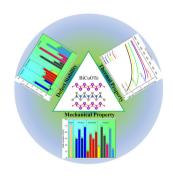
Semen Lapuk, Marina Ponomareva, Marat Ziganshin, Radik Larionov, Timur Mukhametzyanov, Christoph Schick, Ivan Lounev and Alexander Gerasimov\*



## 10715

The effects of point defects on thermal-mechanical properties of BiCuOTe: a first-principles study

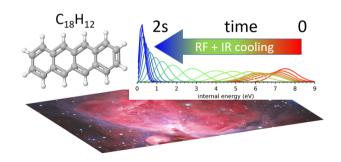
Ming Jiang, Xing-Can Guo, Xiao-Tao Zu\* and Chandra Veer Singh\*



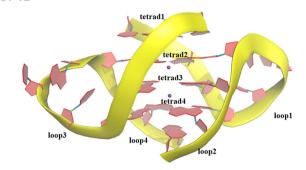
#### 10726

Efficient radiative cooling of tetracene cations C<sub>18</sub>H<sub>12</sub><sup>+</sup>: absolute recurrent fluorescence rates as a function of internal energy

Jérôme Bernard,\* MingChao Ji, Suvasthika Indrajith, Mark H. Stockett, José E. Navarro Navarrete, Naoko Kono, Henrik Cederquist, Serge Martin, Henning T. Schmidt and Henning Zettergren



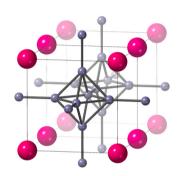
#### 10741



## Binding of berberine derivates to G-quadruplex: insight from a computational study

Mengxin Li, Yalong Cong, Yifei Qi\* and John Z. H. Zhang\*

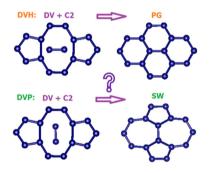
#### 10749



## The contribution of phonons to the thermal expansion of some simple cubic hexaboride structures: SmB<sub>6</sub>, CaB<sub>6</sub>, SrB<sub>6</sub> and BaB<sub>6</sub>

Li Li, Keith Refson and Martin T Dove\*

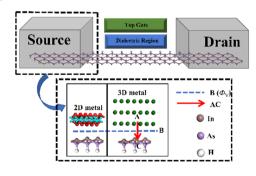
#### 10759



## Healing double vacancy defects on graphene: reconstruction by C2 adsorption

Parisa Alamdari, Farhad Sharif,\* Saeedeh Mazinani, German Sastre\* and Hermenegildo Garcia

## 10769



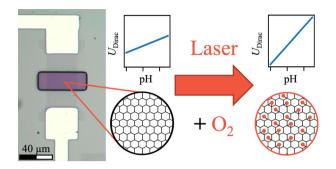
## Systematic investigation of the mechanical, electronic, and interfacial properties of high mobility monolayer InAs from first-principles calculations

Wenjing Yu, Jingzhen Li,\* Yi Wu, Jing Lu and Yongzhe Zhang\*

#### 10778

## Laser-induced tuning of graphene field-effect transistors for pH sensing

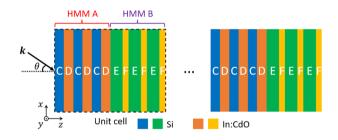
Aku Lampinen, Erich See, Aleksei Emelianov, Pasi Myllyperkiö, Andreas Johansson and Mika Pettersson\*



#### 10785

A redshifted photonic bandgap and wide-angle polarization selection in an all-hyperbolicmetamaterial one-dimensional photonic crystal

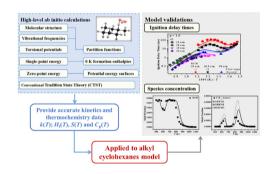
Feng Wu,\* Dejun Liu, Hongju Li and Mingku Feng



## 10795

From electronic structure to model application for alkyl cyclohexane combustion chemistry: H-atom abstraction reactions by HO2 radical

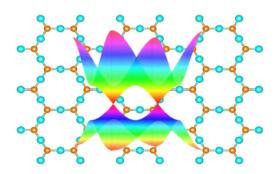
Mingxia Liu, Xin Hui, Xin Xue, Yuzhen Lin and Chong-Wen Zhou\*



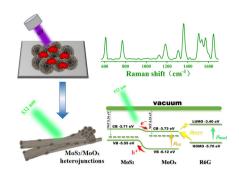
#### 10811

A family of robust Dirac cone materials: two-dimensional hexagonal M<sub>3</sub>X<sub>2</sub> (M = Zn/Cd/Hg, X = Si/Ge)

Qiuyang Li, Cuixia Yan,\* Chenchen Qi, Shi Qiu, Ting Yang and Jinming Cai



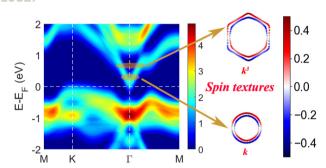
#### 10820



## Ultraviolet-ozone concomitantly induced MoS<sub>2</sub>/ MoO<sub>x</sub> heterostructures with improved SERS performance

Zhao Wei, Songyang Xie, Wei Xiong,\* Shuwen Zen, Dong Chen,\* Tao Jiang, Da Chen, Jun Zhou and Chenjie Gu\*

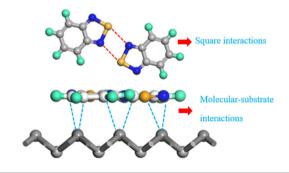
#### 10827



## Hexagonal warping effect in the Janus group-VIA binary monolayers with large Rashba spin splitting and piezoelectricity

Shao-Bo Chen, San-Dong Guo, Wan-Jun Yan, Zhao-Yi Zeng,\* Mei Xu,\* Xiang-Rong Chen\* and Hua-Yun Geng

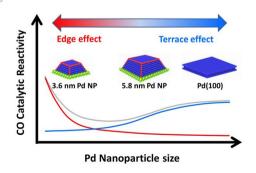
#### 10836



## First-principles study of square chalcogen bond interactions and its adsorption behavior on silver surface

Hui Wang,\* Bin Li, Xiaoting Wang, Fu Yin, Qiaoyu Wei, Xudong Wang, Yuxiang Ni and Hongyan Wang

#### 10845



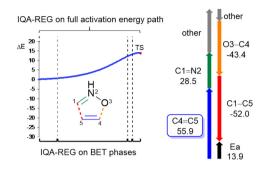
## In situ study of catalytic CO oxidation on ultrathin MgO film supported Pd nanoparticles by sum frequency generation: size and site effects

Jijin Wang,\* Aimeric Ouvrard, Wanquan Zheng, Serge Carrez, Ahmed Ghalgaoui and Bernard Bourguignon

#### 10853

A combined BET and IQA-REG study of the activation energy of non-polar zw-type [3+2] cycloaddition reactions

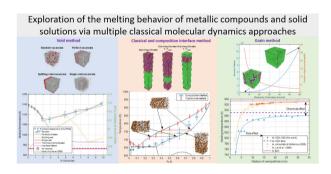
Mar Ríos-Gutiérrez,\* Fabio Falcioni, Luis R. Domingo and Paul L. A. Popelier\*



#### 10866

On the exploration of the melting behavior of metallic compounds and solid solutions via multiple classical molecular dynamics approaches: application to Al-based systems

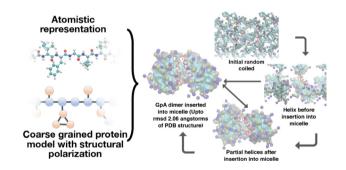
Camille Rincent, Juan-Ricardo Castillo-Sánchez, Aïmen E. Gheribi and Jean-Philippe Harvey\*



#### 10885

Folding and modulation of the helical conformation of Glycophorin A by point mutations

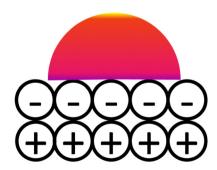
Pei-Yin Lee, Abhilash Sahoo and Silvina Matysiak\*



#### 10894

Accelerating water evaporation from salty droplets on polar substrate: a molecular dynamics study

Yongfeng Huang,\* Yingzong Liang and Shun Xu\*



#### 10899

searching for small fullerenes with advantageous electronic properties



ionization energy 628 kJ mol-1

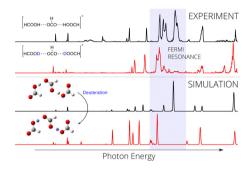


electron affinity 368 kJ mol-1

Computational insights into the singlet-triplet energy gaps, ionization energies, and electron affinities for a diverse set of 812 small fullerenes  $(C_{20}-C_{50})$ 

Bun Chan\* and Amir Karton

#### 10907



Infrared action spectroscopy of the deprotonated formic acid trimer, trapped in helium nanodroplets

Martín I. Taccone, Daniel A. Thomas, Katja Ober, Sandy Gewinner, Wieland Schöllkopf, Gerard Meijer and Gert von Helden\*

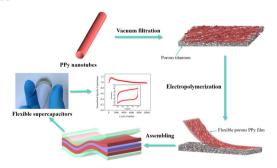
#### 10917



Tuning the odd-even effect on two-dimensional assemblies of curcumin derivatives by alkyl chain substitution: a scanning tunnelling microscopy study

Suyi Liu, Yasuo Norikane,\* Seiji Tsuzuki, Shotaro Ito and Yoshihiro Kikkawa\*

#### 10925



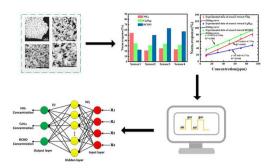
Fabrication of a flexible porous polypyrrole film with a 3D micro-nanostructure and its electrochemical properties

Jingping Wang,\* Jinan Cao, Youlong Xu,\* Haixia An and Xifei Li\*

#### 10935

Quantitative prediction of ternary mixed gases based on an SnO<sub>2</sub> sensor array and an SSA-BP neural network model

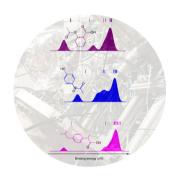
Meihua Li,\* Yunlong Gu, Yunfan Zhang, Xiaodong Gao, Shikun Ge and Guangfen Wei



#### 10946

A photoelectron spectroscopic investigation of aspirin, paracetamol and ibuprofen in the gas phase

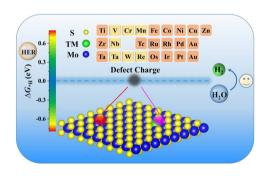
Hanan Sa'adeh,\* Kevin C. Prince, Robert Richter, Vladislav Vasilyev, Delano P. Chong and Feng Wang\*



#### 10956

The charge effects on the hydrogen evolution reaction activity of the defected monolayer MoS<sub>2</sub>

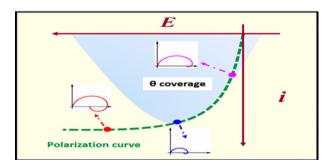
Jing Zhang, Dongying Li, Lin Ju, Gui Yang, Di Yuan, Zhenzhen Feng and Wentao Wang\*



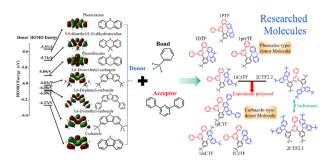
#### 10966

Low-frequency inductive features in the electrochemical impedance spectra of mass-transport limited redox reactions

Debittree Choudhury, Rubul Das, Rajan Maurya, Geetanksha Gupta and Manoj Neergat\*



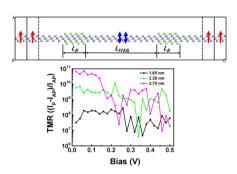
#### 10977



Regulating through space charge transfer in thermally activated delayed fluorescence molecules *via* donor architectures: theoretical perspective and molecular design

Xiaorui Wang, Haipei Zou, Huanling Liu, Qingfang Mu, Kai Zhang, Yuanyuan Xu\* and Jianzhong Fan\*

#### 10991



Giant tunneling magnetoresistance in in-plane double-barrier magnetic tunnel junctions based on MXene Cr<sub>2</sub>C

Hailin Yu, Mingyan Chen, Zhenguang Shao, Yongmei Tao, Xuefan Jiang, Yaojun Dong, Jie Zhang, Xifeng Yang and Yushen Liu\*

#### CORRECTION

#### 10998

Correction: High-throughput computational screening of hypothetical metal-organic frameworks with open copper sites for CO<sub>2</sub>/H<sub>2</sub> separation

Mengmeng Li, Weiquan Cai,\* Chao Wang and Xuanjun Wu\*

## **RETRACTION**

#### 10999

Retraction: Comparing gas transport in three polymers via molecular dynamics simulation

Luke R. Anderson,\* Quan Yang and Andrew M. Ediger