

Journal of Materials Chemistry A

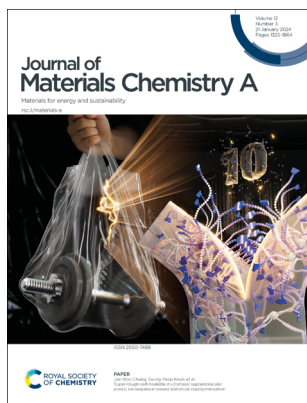
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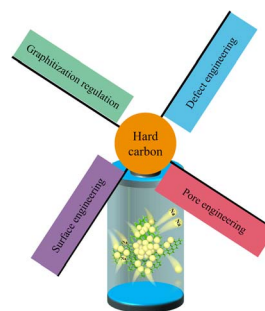
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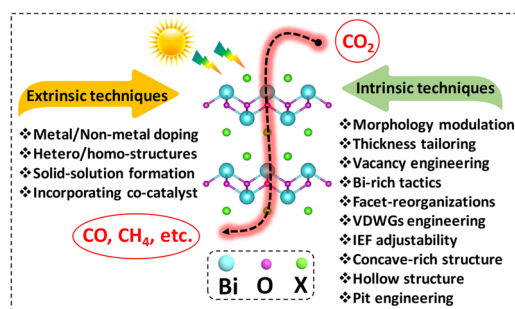
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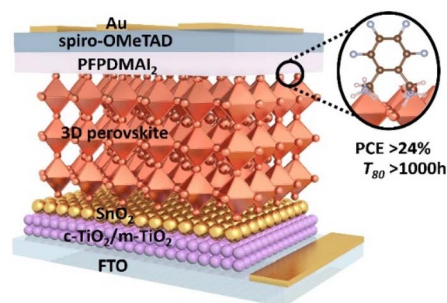


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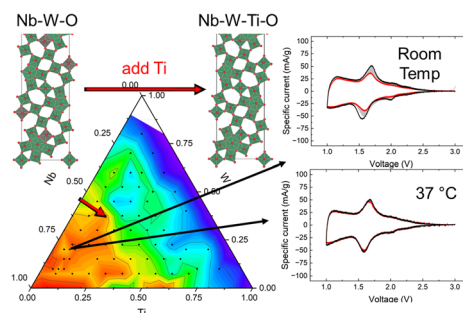
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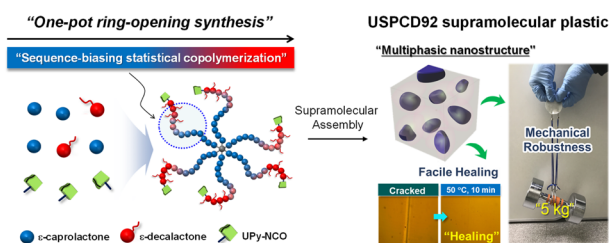
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J. Michael Sieffert, Christopher J. Lang, Stephanie Bazylevych, Shipeng Jia and Eric McCalla*



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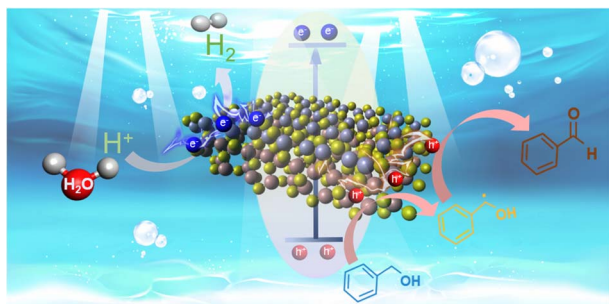
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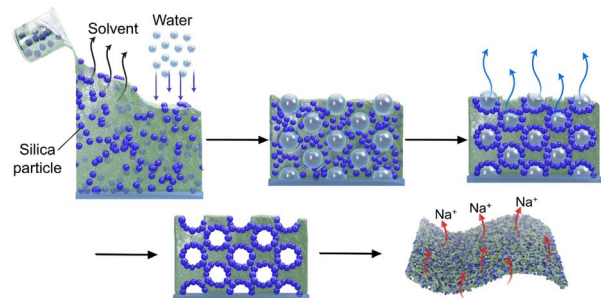
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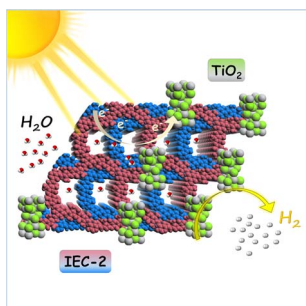
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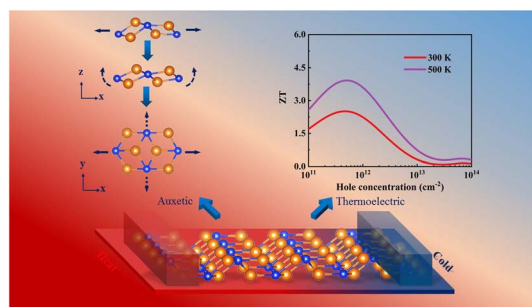


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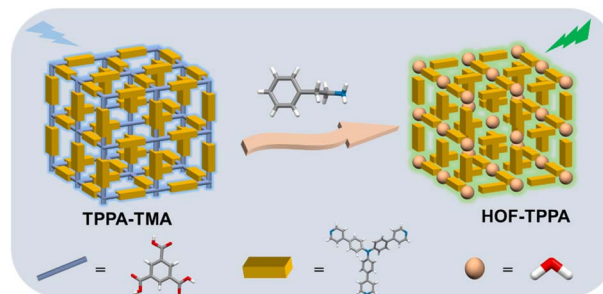
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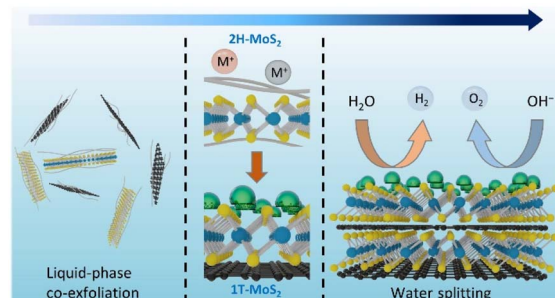
Yanhong Liu, Wenyan Dan and Bing Yan*



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Green synthesis of heterolayered 2D nanohybrid catalytic hydrogel cell for environmentally-friendly water splitting

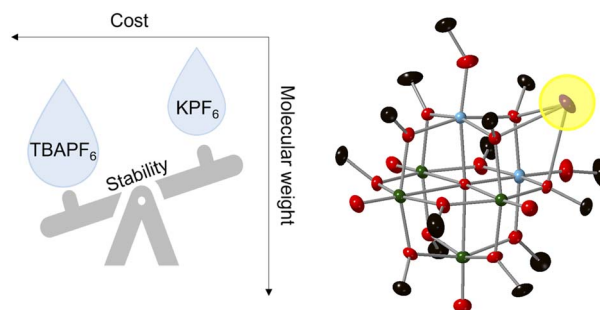
Seonmyeong Noh, Thanh-Hai Le, Changjun Kim, Minseong Ju, Haney Lee, S. K. Nataraj* and Hyeonseok Yoon*



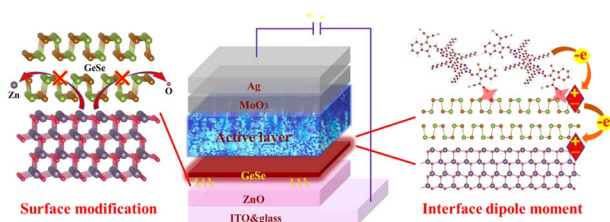
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Potassium supporting electrolyte enhances stability of Ti-substituted polyoxovanadates for nonaqueous redox flow batteries

Mamta Dagar, William W. Brennessel and Ellen M. Matson*



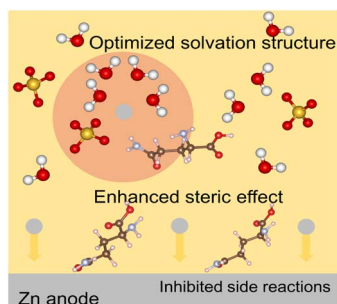
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A ZnO/GeSe composite electron transport layer for organic solar cells

Jingyu Tan, Hongye Li, Yapeng Sun, Guanliang Li, Yujun Zhao and Huangzhong Yu*

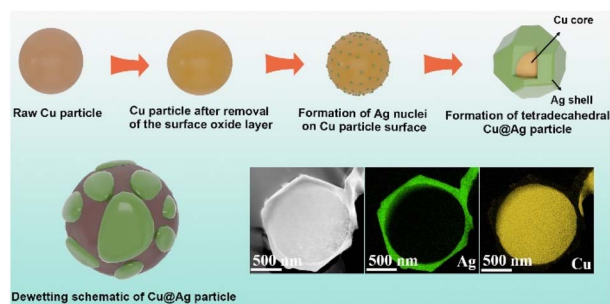
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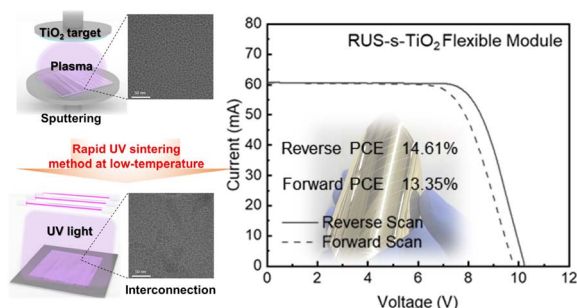
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Tetradecahedral Cu@Ag core-shell powder with high solid-state dewetting and oxidation resistance for low-temperature conductive paste

Yulian Zeng, Shuai Zou,* Zhenzhen Chen, Zheng Lu, Mengfei Ni, Chen-Wei Peng, Zipeng Wang, Hua Sun, Xiaohong Zhang and Xiaodong Su*

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Low-temperature rapid UV sintering of sputtered TiO₂ for flexible perovskite solar modules

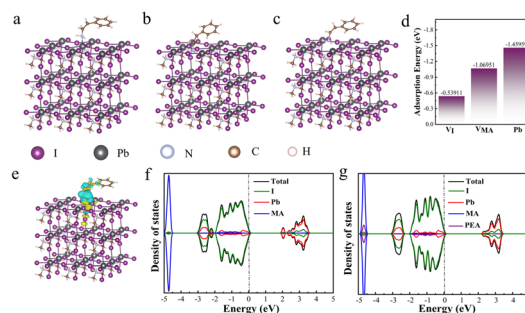
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Elevated efficiency and stability of hole-transport-layer-free perovskite solar cells induced by phenethylammonium iodide

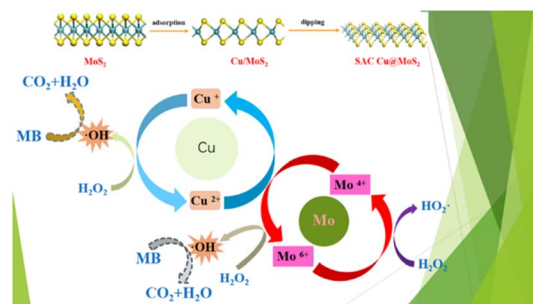
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A novel Cu single-atom catalyst prepared through the adsorption characteristics of MoS₂: from preparation to application

Xu Zhang, Lang Ran, Yajuan Zheng, Heng Zhang, Lingxiao Zhu, Lincheng Zhou* and Hong Zhang*

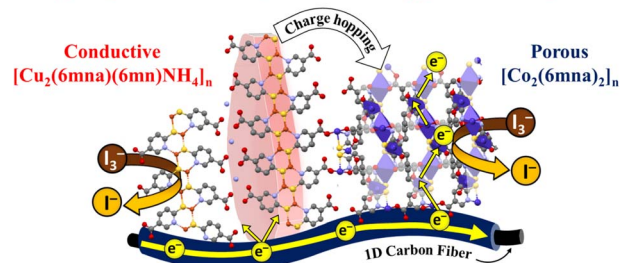


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Bi-metallic [Cu/Co(6mna)₂]_n metal organic chalcogenolate frameworks as high-performance electro-catalysts for dye-sensitized solar cells: a ligand-assisted bottom-up synthesis

Chun-Wei Lai, Yu-Chien Lee, Yi-Zhen Jiang, Chia-Her Lin, Gautam Kumar, Michael H. Huang and Chun-Ting Li*

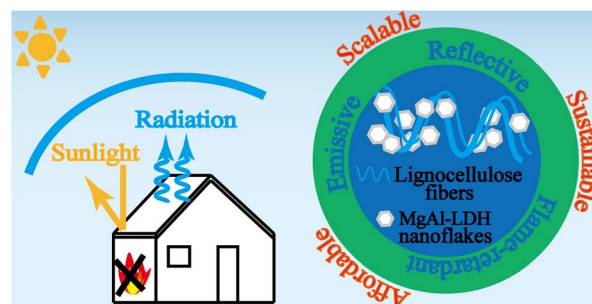
Synergetic bimetallic [Cu/Co(6mna)₂]_n electro-catalyst



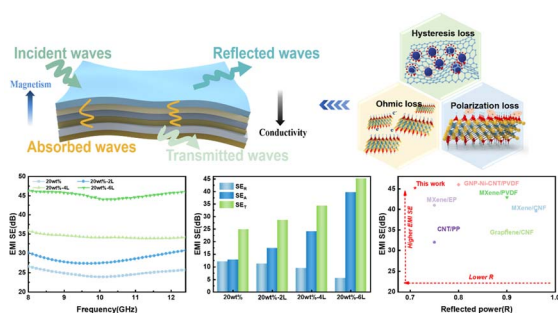
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Guowei Li, Jiawei Huang, Jian Zhou, Yucheng Zhang, Chuchu Zhang, Zhenggang Rao* and Linfeng Fei*



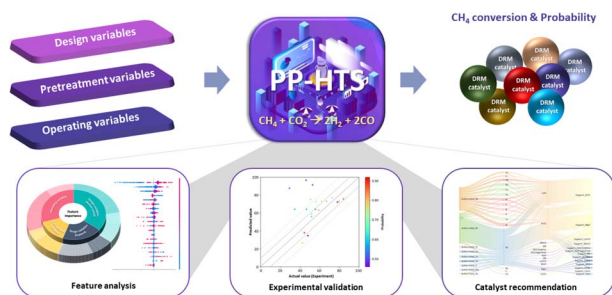
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Meng Ma,^{*} Wenqin Shao, Qindan Chu, Wenting Tao, Si Chen, Yanqin Shi, Huiwen He, Yulu Zhu and Xu Wang^{*}

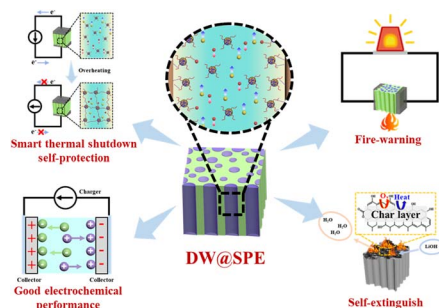
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Accelerating active catalyst discovery: a probabilistic prediction-based screening methodology with applications in dry reforming of methane

Hyundo Park, Jiwon Roh, Hyungtae Cho, Insoo Ro^{*} and Junghwan Kim^{*}

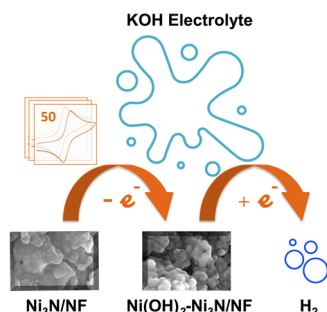
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Qingtao Zeng, Xuejun Lai,^{*} Hongqiang Li, Zhonghua Chen, Xingrong Zeng and Liqun Zhang^{*}

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Electrochemically engineered domain: nickel-hydroxide/nickel nitride composite for alkaline HER electrocatalysis

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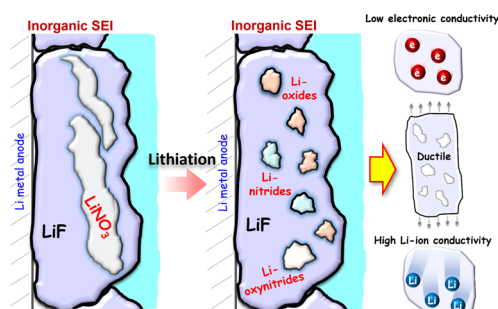


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Synergetic impact of nitrate-based additives for enhanced solid electrolyte interphase performance

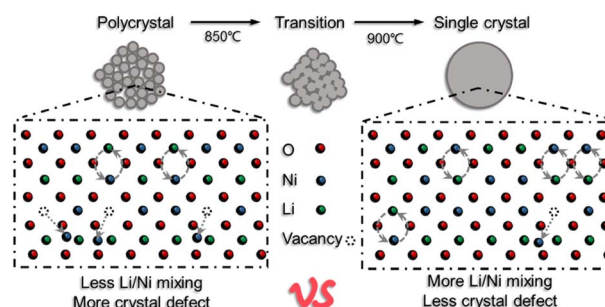
Swastik Basu and Gyeong S. Hwang*



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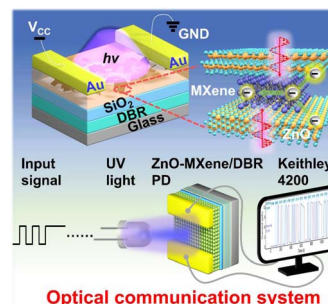
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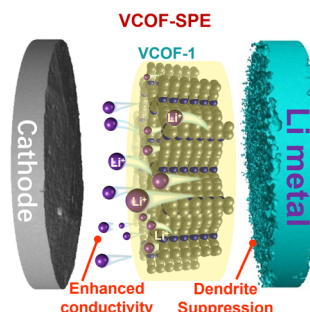
Zhenpeng Cheng, Zeping Li, Ming-Yu Li,* Xiaoyan Wen, Xumin Ding, Hao Xu, Jihoon Lee, Haifei Lu* and Sisi Liu*



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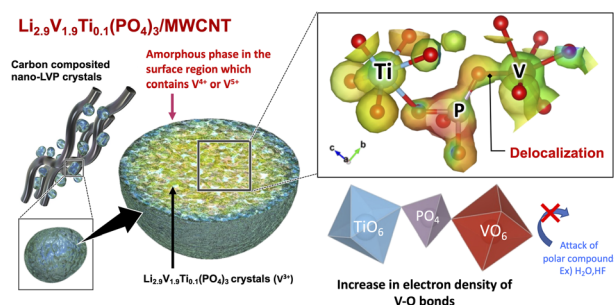
Enhancing ionic conductivity and suppressing Li dendrite formation in lithium batteries using a vinylene-linked covalent organic framework solid polymer electrolyte

Jin Yang, Chenxiao Lin, Yonglei Wang, Yaolin Xu, Duong Tung Pham, Xiangqi Meng, Khanh Van Tran, Sijia Cao, Nikolay Kardjilov, André Hilger, Jan Dirk Epping, Ingo Manke, Arne Thomas* and Yan Lu*



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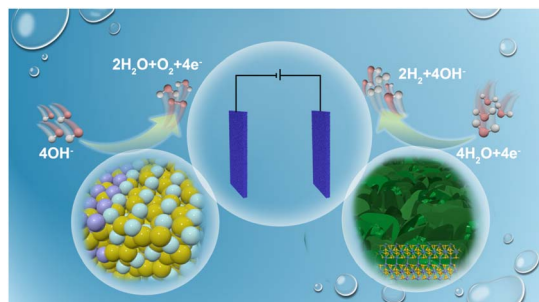
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Ultralong lifespan of SuperRedox Capacitor using Ti-doped $\text{Li}_3\text{V}_2(\text{PO}_4)_3$ cathode with suppressed vanadium dissolution

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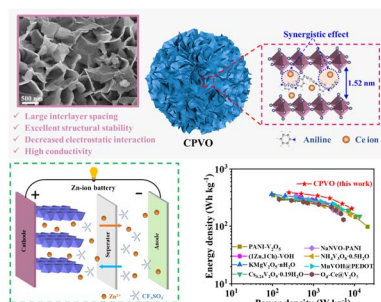
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A high-efficiency $\text{NiFeSe}_4/\text{NiSe}_2$ bifunctional electrocatalyst with outstanding oxygen evolution reaction and overall water splitting performance

Lan Mu, Shipeng Qiu, Gang Zhao,^{*} Baojie zhang, Wenbo Liao, Ning Zhao and Xijin Xu^{*}

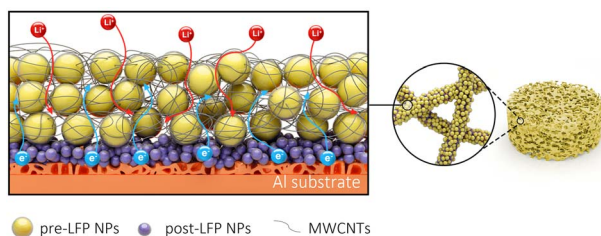
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Ce ions and polyaniline co-intercalation into MOF-derived porous V_2O_5 nanosheets with a synergistic energy storage mechanism for high-capacity and super-stable aqueous zinc-ion batteries

Yibo Zhang, Zhihua Li,^{*} Bo Zhao, Ziyi Wang and Jun Liu

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New approaches to three-dimensional positive electrodes enabling scalable high areal capacity

Zhiyong Zhao, Xiaowei Zhang,^{*} Peng Wang, Ioanna Maria Pateli, Hongyi Gao, Ge Wang^{*} and John T. S. Irvine^{*}

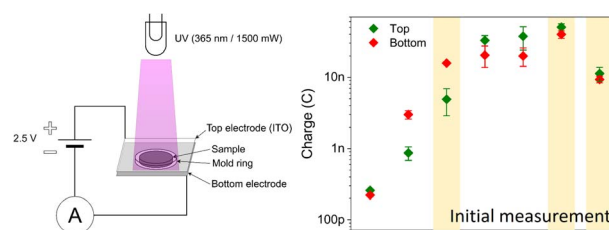


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An energy harvester based on UV-polymerized short-alkyl-chain-modified [DBU][TFSI] ionic liquid electrets

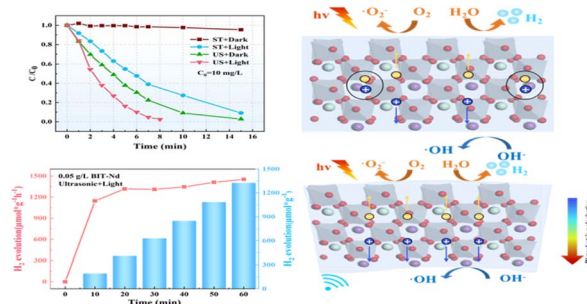
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Enhanced piezoelectricity and spectral absorption in Nd-doped bismuth titanate hierarchical microspheres for efficient piezo-photocatalytic H₂ production and pollutant degradation

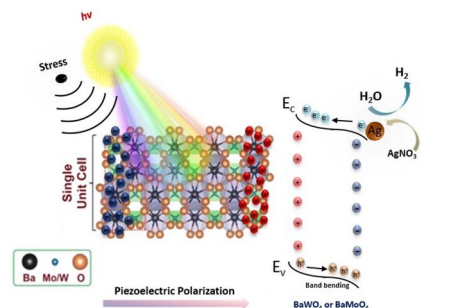
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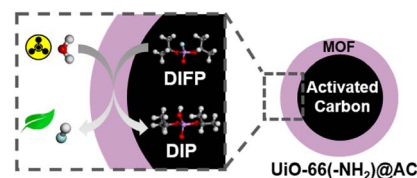
Talha Kuru, Adem Sarilmaz, Emre Aslan, Faruk Ozel* and Imren Hatay Patir*



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Zirconium-metal-organic framework@activated carbon composites for prevention of secondary emission of nerve agents

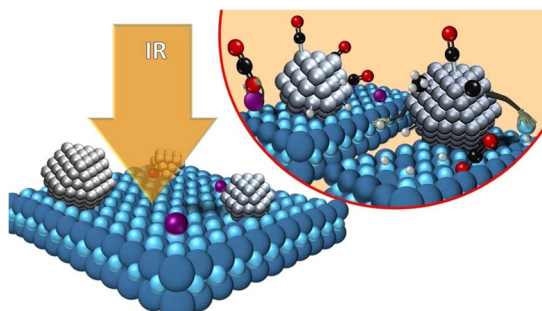
Cristina Perona, Emilio Borrego-Marin, Pedro Delgado, Rebecca Vismara, Carmen R. Maldonado, Elisa Barea, Teresa J. Badosz and Jorge A. R. Navarro*



- ✓ MOF growth on AC spheres
- ✓ MOF@AC synergy
- ✓ Non-secondary emission



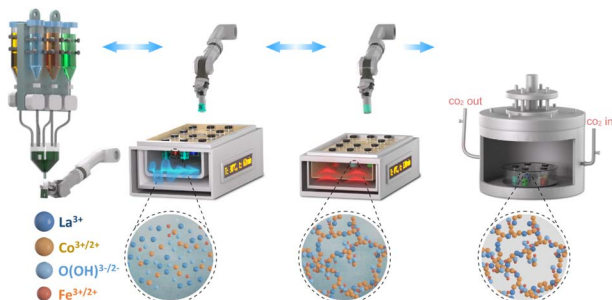
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Subnanometric Pt clusters dispersed over Cs-doped TiO₂ for CO₂ upgrading *via* low-temperature RWGS: *operando* mechanistic insights to guide an optimal catalyst design

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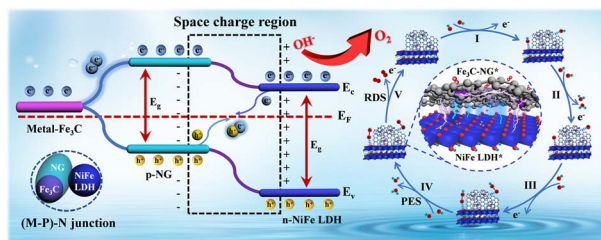
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Developing an Fe_xCo_yLa_z-based amorphous aerogel catalyst for the oxygen evolution reaction *via* high throughput synthesis

Bijun Cai, Shaomeng Xu, Zhuyang Chen,* Weixuan Li, Ronggui Zhu, Shibo Xi, Chen Xu* and X.-D. Xiang*

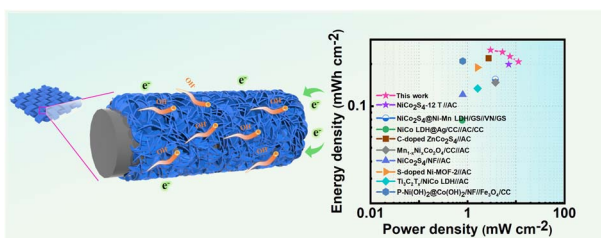
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Designing a Schottky coupled p-n junction to enhance the kinetic behavior of the oxygen evolution reaction

Guangping Yang, Sining Yun,* Tianxiang Yang, Jiaoe Dang, Yongwei Zhang and Zhiguo Wang

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High mass loading porous CoNi₂S₄ nanosheets with ultrahigh areal capacity for flexible supercapacitors

Qian Chen, Ziqiang Wu, Lili Zhu, Changdian Li, Xuebin Zhu* and Yuping Sun

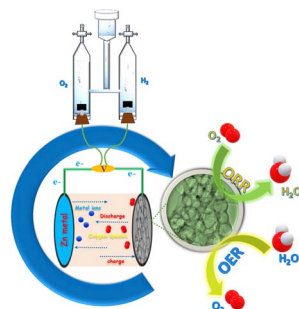


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Cutting-edge nitrogen, boron, and fluorine triply doped chain-like porous carbon nanofibers: a versatile solution for high-performance zinc–air batteries and self-powered water splitting

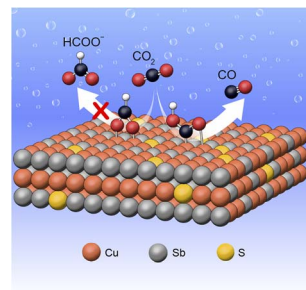
Alagan Muthurasu, Ishwor Pathak, Debendra Acharya, Yagya Raj Rosyara and Hak Yong Kim*



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Covalency-aided electrochemical CO₂ reduction to CO on sulfide-derived Cu–Sb

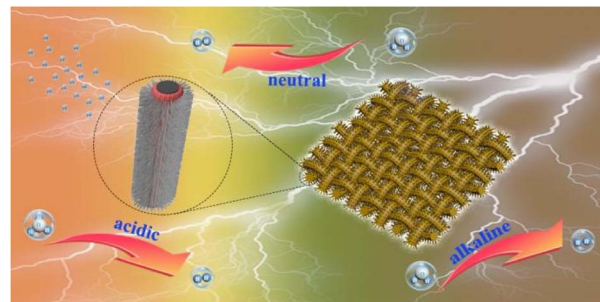
Daniel Yong Yi Goh, Kah Meng Yam, Lavie Rekhi, Albertus Denny Handoko, Ying Chuan Tan, Yong Wang, Joel Ming Rui Tan, Tej Salil Choksi,* Yanwei Lum* and Lydia Helena Wong*



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Free-standing multi-hierarchical MoC-based catalyst for pH-universal hydrogen evolution reaction at ultra-high current density

Nan Lu, Yue Liang, Cai-Yun Ren, Xue Liang, Yong-Chao Zhang, Xiao-Dong Zhu* and Jian Gao*



CORRECTION

1862

Correction: Local structure and lithium-ion diffusion pathway of cubic Li₇La₃Zr₂O₁₂ studied by total scattering and the Reverse Monte Carlo method

Haolai Tian, Guanqun Cai, Lei Tan, He Lin, Anthony E. Phillips, Isaac Abrahams, David A. Keen, Dean S. Keeble, Andy Fiedler, Junrong Zhang, Xiang Yang Kong* and Martin T. Dove*

