

REVIEW

- 1809** From plasma to plasmonics: toward sustainable and clean water production through membranes

Farah Abuhatab, Omar Khalifa, Husam Al Araj, Shadi W. Hasan

- 1837** Surface modification techniques of membranes to improve their antifouling characteristics: recent advancements and developments

Muhammad Tawalbeh, Haya Aljaghoub, Muhammad Qasim, Amani Al-Othman

- 1866** Anti-biofouling strategies for implantable biosensors of continuous glucose monitoring systems

Yan Zheng, Dunyun Shi, Zheng Wang

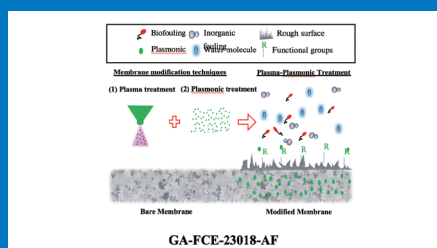
- 1879** Recent advances in cycloaddition of CO₂ with epoxides: halogen-free catalysis and mechanistic insights

Jiaxin Li, Chengguang Yue, Wenhao Ji, Bangman Feng, Mei-Yan Wang, Xinbin Ma

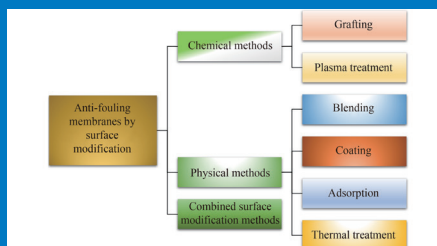
- 1895** Selective capture and separation of xenon and krypton using metal organic frameworks: a review

Yilun Zhou, Jingyi Wang, Yujie Zhao, He Gu, Zhongshan Chen, Hui Yang, Xiangke Wang

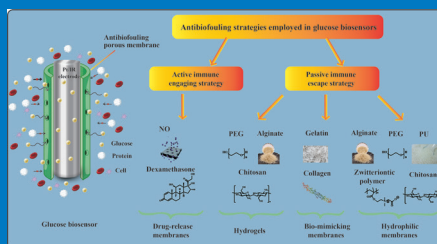
1809



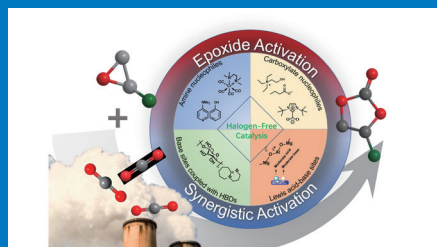
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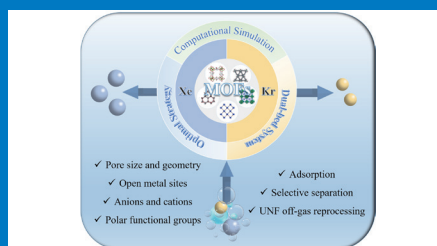
1866



1879



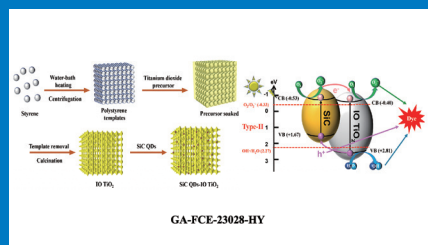
1895



RESEARCH ARTICLE

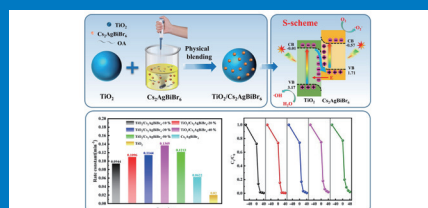
- 1913** Design and mechanism insight on SiC quantum dots sensitized inverse opal TiO₂ with superior photocatalytic activities under sunlight
Yingchao He, Qiong Sun, Likun Sun, Zhixing Gan, Liyan Yu, Lifeng Dong

1913



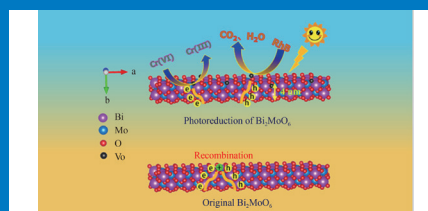
- 1925** All-inorganic TiO₂/Cs₂AgBiBr₆ composite as highly efficient photocatalyst under visible light irradiation
Jianzhong Ma, Lu Wen, Qianqian Fan, Siying Wei, Xueyun Hu, Fan Yang

1925



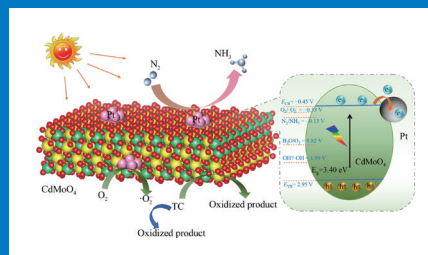
- 1937** Photoreduction adjusted surface oxygen vacancy of Bi₂MoO₆ for boosting photocatalytic redox performance
Tie Shi, Hailong Jia, Yanmei Feng, Bo Gong, Daimei Chen, Yu Liang, Hao Ding, Kai Chen, Derek Hao

1937



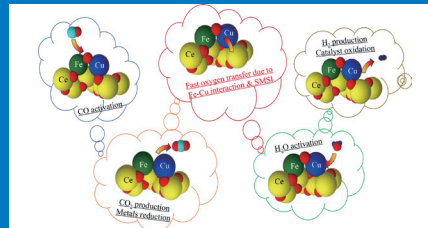
- 1949** Decoration of CdMoO₄ micron polyhedron with Pt nanoparticle and their enhanced photocatalytic performance in N₂ fixation and water purification
Xujie Ren, Junfeng Wang, Shude Yuan, Chunran Zhao, Lin Yue, Zhihao Zeng, Yiming He

1949



- 1962** Enhanced activity of bimetallic Fe-Cu catalysts supported on ceria toward water gas shift reaction: synergistic effect
Gianluca Landi, Giulia Sorbino, Fortunato Migliardini, Giovanna Ruoppolo, Almerinda Di Benedetto

1962

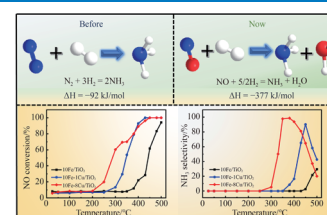




- 1973** NO hydrogenation to NH₃ over FeCu/TiO₂ catalyst with improved activity

Dan Cui, Yanqin Li, Keke Pan, Jinbao Liu, Qiang Wang, Minmin Liu, Peng Cao, Jianming Dan, Bin Dai, Feng Yu

1973

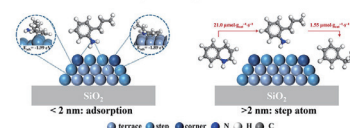


- 1986** Effect of noble metal nanoparticle size on C–N bond cleavage performance in hydrodenitrogenation: a study of active sites

Yi-Fan Xue, Jie Feng, Yun-Cai Song, Wen-Ying Li

1986

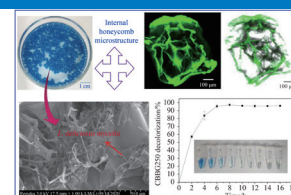
C–N bond cleavage size-dependence intrinsic factor



- 2001** Immobilization and characterization of the *Lactarius deliciosus* mycelia-embedded polylysine-alginate beads and their decolorization performance

Yiwen Jin, Jie Yuan, Caixia Liu, Jiacheng Sun, Youbin Liu, Zhifeng Ding, Qingxi Wu

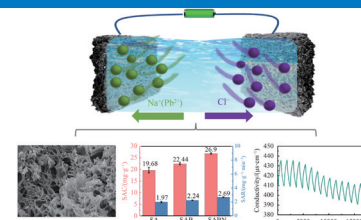
2001



- 2014** Boron and nitrogen co-doped porous carbon derived from sodium alginate enhanced capacitive deionization for water purification

Xiao Yong, Pengfei Sha, Jinghui Peng, Mengdi Liu, Qian Zhang, Jianhua Yu, Liyan Yu, Lifeng Dong

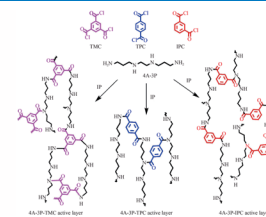
2014



- 2025** The effect of altering crosslinker chemistry during interfacial polymerization on the performance of nanofiltration membranes for desalination, organic, and micropollutants removal

Jamilu Usman, Abdul Waheed, Umair Baig, Isam H. Aljundi

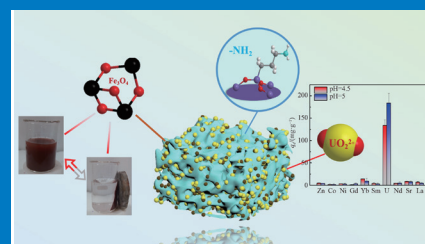
2025



- 2037** Magnetic KIT-6 nano-composite and its amino derivatives as convenient adsorbent for U(VI) sequestration

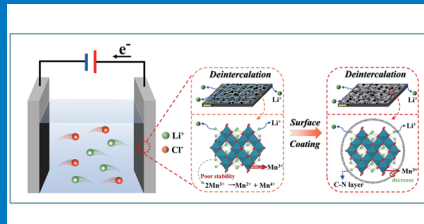
Jiafeng Ouyang, Wenlu Guo, Lin Wang, Changming Nie, Dadong Shao, Weiqun Shi, Liyong Yuan

2037



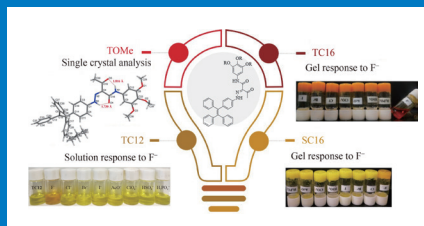
- 2050** Construction of nitrogen-doped carbon cladding LiMn_2O_4 film electrode with enhanced stability for electrochemically selective extraction of lithium ions
Jiahui Ren, Yongping He, Haidong Sun, Rongzi Zhang, Juan Li, Wenbiao Ma, Zhong Liu, Jun Li, Xiao Du, Xiaogang Hao

2050



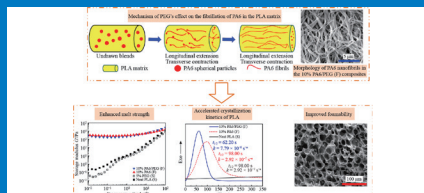
- 2061** Synthesis and ultraviolet/aggregation-induced emission investigation of novel tetraphenylvinyl hydrazone derivatives: efficient multimodal chemosensors for fluoride ion
Wenting Yin, Linqi Shi, Mengjiao Liang, Yaodong Huang, Junjiao Yang

2061



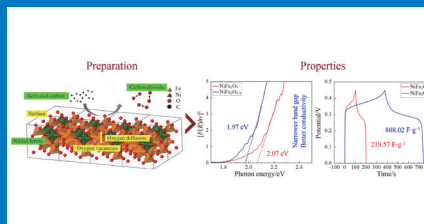
- 2074** Effect of polyethylene glycol on the crystallization, rheology and foamability of poly(lactic acid) containing *in situ* generated polyamide 6 nanofibrils
Yuhui Qiao, Qian Li, Amirjalal Jalali, Dongsheng Yu, Xichan He, Xiaofeng Wang, Jing Jiang, Zhiyu Min

2074



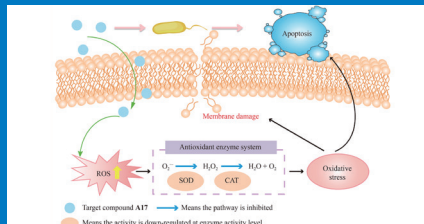
- 2088** Activated carbon induced oxygen vacancies-engineered nickel ferrite with enhanced conductivity for supercapacitor application
Xicheng Gao, Jianqiang Bi, Linjie Meng, Lulin Xie, Chen Liu

2088



- 2101** Discovery of novel ursolic acid derivatives as effective antimicrobial agents through a ROS-mediated apoptosis mechanism
Yihong Yang, Siyue Ma, Ting Li, Jingjing He, Shitao Liu, Hongwu Liu, Jiaojiao Zhang, Xiang Zhou, Liwei Liu, Song Yang

2101



- 2114** Molybdenum disulfide@nickel phyllosilicate hybrid for improving the flame retardancy and wear resistance of epoxy composites

Shibin Nie, Wei He, Yuxuan Xu, Wenli Zhai, Hong Zhang, Jinian Yang

- 2127** The role of single deformed bubble on porous foam tray with submerged orifices on the mass transfer enhancement

Peng Yan, Xueli Geng, Jian Na, Hong Li, Xin Gao

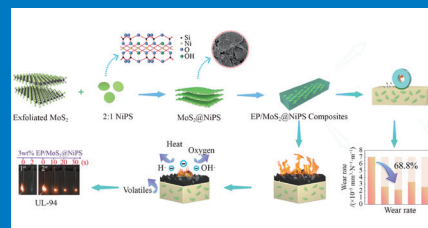
- 2144** Silica-based nanoarchitecture for an optimal combination of photothermal and chemodynamic therapy functions of Cu_{2-x}S cores with red emitting carbon dots

Alexey Stepanov, Svetlana Fedorenko, Kirill Kholin, Irek Nizameev, Alexey Dovzhenko, Rustem Zairov, Tatiana Gerasimova, Alexandra Voloshina, Anna Lyubina, Guzel Sibgatullina, Dmitry Samigullin, Asiya Mustafina

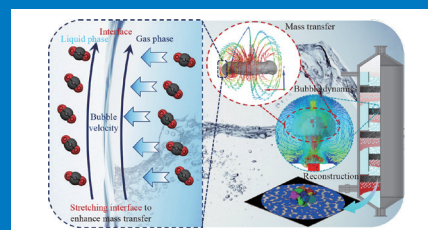
- 2156** The CatMath: an online predictive platform for thermal + electrocatalysis

Heng Liu, Hao Zheng, Zhenhe Jia, Binghui Zhou, Yan Liu, Xuelu Chen, Yajun Feng, Li Wei, Weijie Yang, Hao Li

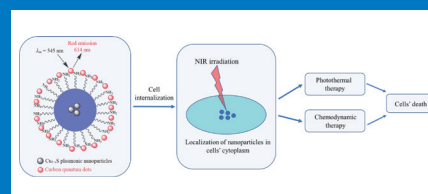
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