

2019, volume 1, issue 1

Click to
cite this
article

Review

Demanding energy from carbon

Yifei Yuan, **Jun Lu***. *Carbon Energy*, 2019, 1(1), 8-12

Review

Nanodiamonds for energy

Hongxia Wang, **Yi Cui***. *Carbon Energy*, 2019, 1(1), 13-18.

Click to
cite this
article

Review

Ten years of carbon-based metal-free electrocatalysts

Rajib Paul, Quanbin Dai, Chuangang Hu, **Liming Dai***. *Carbon Energy*, 2019, 1(1), 19-31.

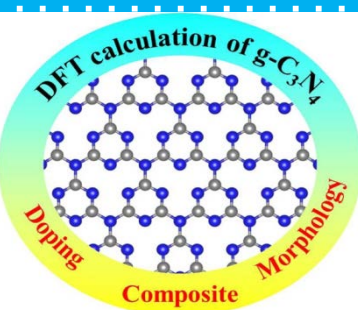
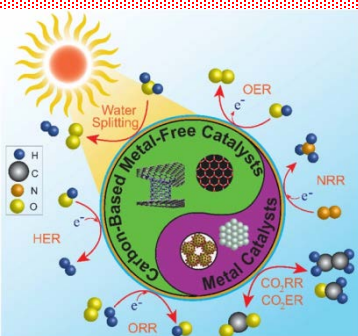
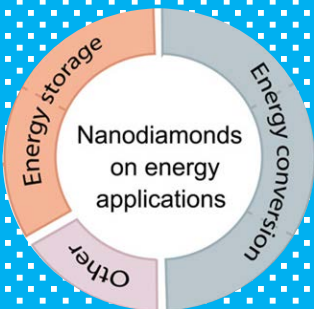
Click to
cite this
article

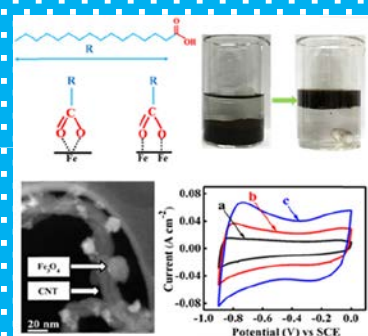
Review

Review on DFT calculation of s-triazine-based carbon nitride

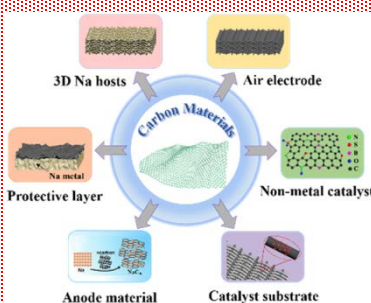
Bicheng Zhu, Bei Cheng, **Liuyang Zhang***, **Jiaguo Yu***. *Carbon Energy*, 2019, 1(1), 32-56.

Click to
cite this
article





2019, volume 1, issue 2

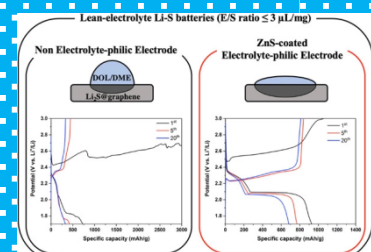


Review

The application of carbon materials in nonaqueous Na-O₂ batteries

Xiaoting Lin, Qian Sun, Kieran Doyle Davis, Ruying Li, **Xueliang Sun***. *Carbon Energy*. 2019, 1(2), 141-164.

Click to cite this article

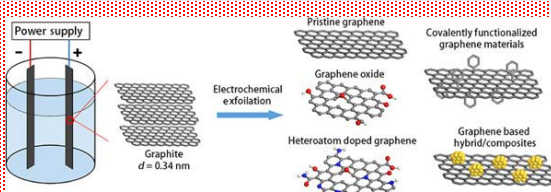


research

ZnS coating of cathode facilitates lean-electrolyte Li-S batteries

Woochul Shin, Jun Lu, **Xiulei Ji***. *Carbon Energy*. 2019, 1(2), 165-172.

Click to cite this article

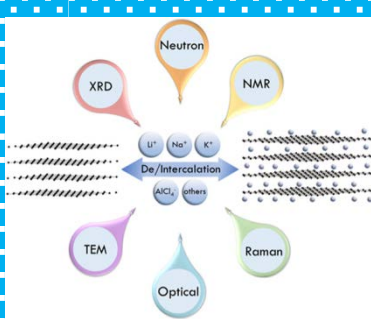


Review

Synthesis of graphene materials by electrochemical exfoliation: Recent progress and future potential

Fei Liu, Chaojun Wang, Xiao Sui, Muhammad Adil Riaz, **Meiying Xu***, **Li Wei***, **Yuan Chen***. *Carbon Energy*. 2019, 1(2), 173-199.

Click to cite this article

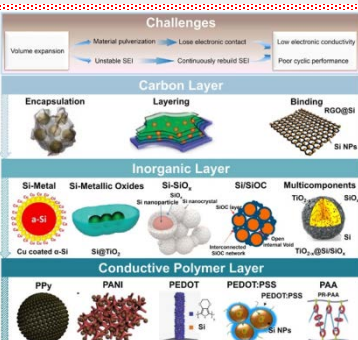


Review

In-situ structural characterizations of electrochemical intercalation of graphite compounds

Na Li, **Dong Su***. *Carbon Energy*. 2019, 1(2), 200-218.

Click to cite this article

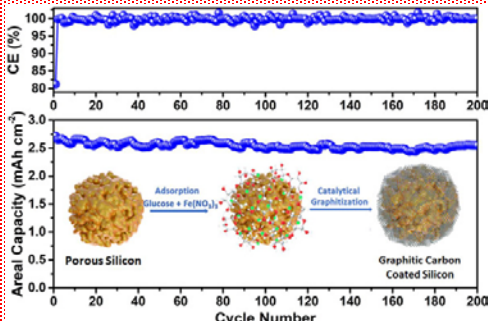


Review

Engineering of carbon and other protective coating layers for stabilizing silicon anode materials

Fenglin Wang, Gen Chen, Ning Zhang, **Xiaohe Liu***, **Renzi Ma***. *Carbon Energy*. 2019, 1(2), 219-245.

Click to cite this article

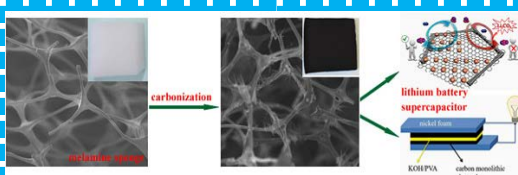


Research

Low-temperature synthesis of graphitic carbon-coated silicon anode materials

Zheng Yan, Huile Jin, **Juchen Guo***. Carbon Energy. 2019, 1(2), 246-252.

Click to cite this article

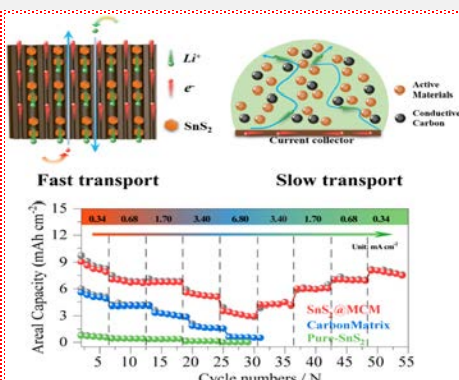


Review

Carbon materials from melamine sponges for supercapacitors and lithium battery electrode materials: A review

Click to cite this article

Yanying Shi, Guijing Liu, Rencheng Jin, Hui Xu, Qingyao Wang, **Shanmin Gao***. Carbon Energy. 2019, 1(2), 253-275.



Research

"All-In-One" integrated ultrathin SnS₂@3D multichannel carbon matrix power high-areal-capacity lithium battery anode

Hongyi Xu, Chengxin Peng, Yuhua Yan, Fei Dong, Hao Sun, Junhe Yang, **Shiyu Zheng***. Carbon Energy. 2019, 1(2), 276-288.

Click to cite this article

2020, volume 2, issue 1

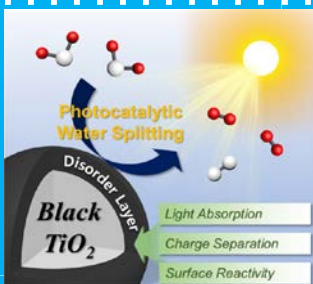


Review

Recycling of mixed cathode lithium-ion batteries for electric vehicles: Current status and future outlook

Tyler Or, Storm W. D. Gourley, Karthikeyan Kaliyappan, Aiping Yu, **Zhongwei Chen***. *Carbon Energy*. 2020, 2(1), 6-43.

Click to
cite this
article



review

Black TiO₂: What are exact functions of disorder layer

Sungsoon Kim, Yoonjun Cho, Ryan Rhee, **Jong Hyeok Park***. *Carbon Energy*. 2020, 2(1), 44-53.

Click to
cite this
article

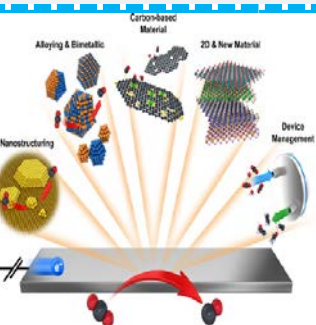


Review

Two-dimensional materials of group-IVA boosting the development of energy storage and conversion.

Qiang Guo, **Nan Chen***, **Liangti Qu***. *Carbon Energy*. 2020, 2(1), 54-71

Click to
cite this
article

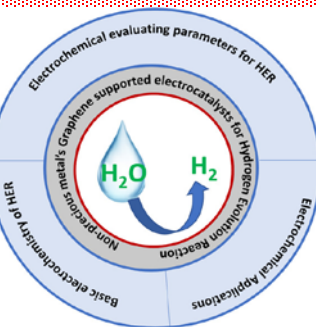


Review

Progress in development of electrocatalyst for CO₂ conversion to selective CO production.

Dang Le Tri Nguyen, Younghye Kim, **Yun Jeong Hwang***, **Da Hye Won***. *Carbon Energy*. 2020, 2(1), 72-98

Click to
cite this
article

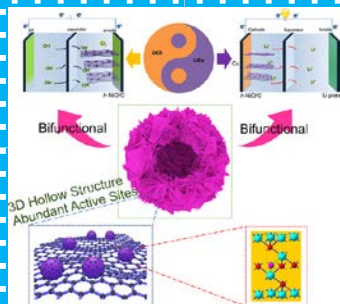


Review

Nonprecious metal's graphene-supported electrocatalysts for hydrogen evolution reaction: Fundamentals to applications.

Asad Ali, **PeiKang Shen***. *Carbon Energy*, 2020, 2(1), 99-121.

Click to
cite this
article

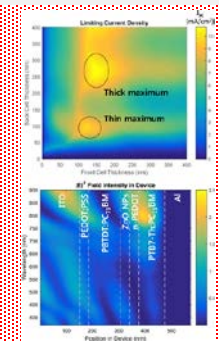


Research

Rambutan-like hollow carbon spheres decorated with vacancy-rich nickel oxide for energy conversion and storage.

Zixu Sun, Xinghui Wang, Hu Zhao, See W. Koh, Junyu Ge, Yunxing Zhao, Pingqi Gao, Guangjin Wang, **Hong Li***. Carbon Energy.2020, 2(1), 122-130.

Click to cite this article

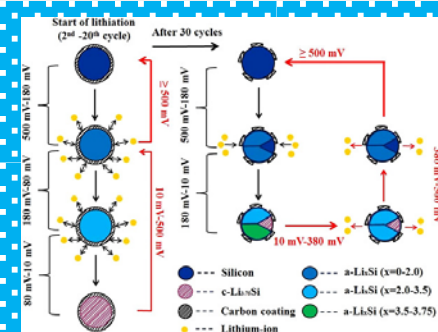


Research

Modeling and implementation of tandem polymer solar cells using wide-bandgap front cells.

Seo-Jin Ko, Hyosung Choi, Quoc Viet Hoang, Chang Eun Song, Pierre-Olivier Morin, Jungwoo Heo, Mario Leclerc, Sung Cheol Yoon, **Han Young Woo***, **Won Suk Shin***, **Bright Walker***, **Jin Young Kim***. Carbon Energy. 2020, 2(1), 131-142.

Click to cite this article



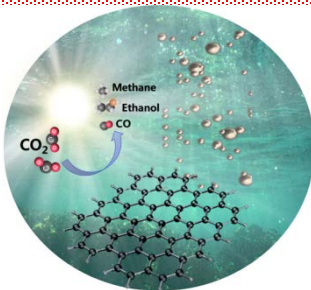
research

The influence of compact and ordered carbon coating on solid-state behaviors of silicon during electrochemical processes.

Shuo Zhou, Chen Fang, Xiangyun Song, **Gao Liu***. Carbon Energy. 2020, 2(1), 143-150.

Click to cite this article

2020, volume 2, issue 2

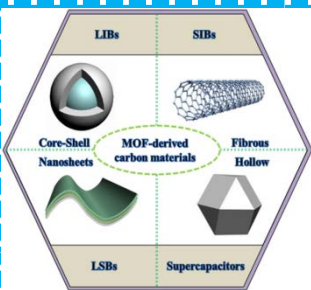


Review

Graphene-based catalysts for electrochemical carbon dioxide reduction

*Amirhossein Hasani, Mahider Asmare Teklagne, Ha Huu Do, Sung Hyun Hong, Quyet Van Le, Sang Hyun Ahn, **Soo Young Kim****. Carbon Energy. 2020, 2(2), 158-175

[Click to cite this article](#)



review

Recent progress on MOF-derived carbon materials for energy storage

*Jincan Ren, Yalan Huang, He Zhu, Binghao Zhang, Hekang Zhu, Shenghui Shen, Guoqiang Tan, Feng Wu, Hao He, Si Lan, **Xinhui Xia***, **Qi Liu****. Carbon Energy. 2020, 2(2), 176-202

[Click to cite this article](#)

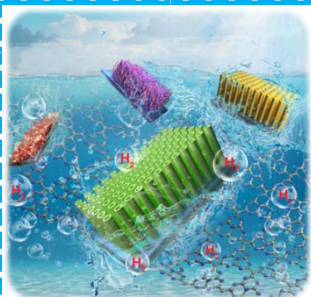


Review

Conductive metal-organic frameworks: Recent advances in electrochemical energy-related applications and perspectives

*Lingzhi Guo, Jinfeng Sun, Jingxuan Wei, Yang Liu, Linrui Hou, **Changzhou Yuan****. Carbon Energy. 2020, 2(2), 203-222

[Click to cite this article](#)

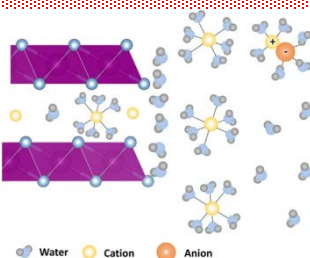


review

Graphitic carbon nitride (g-C₃N₄)-based nanosized heteroarrays: Promising materials for photoelectrochemical water splitting

Liqun Wang, Wenping Si, Yueyu Tong, Feng Hou, Daniele Pergolesi, **Jungang Hou***, Thomas Lippert, Shi Xue Dou, **Ji Liang****. Carbon Energy. 2020, 2(2), 223-250

[Click to cite this article](#)

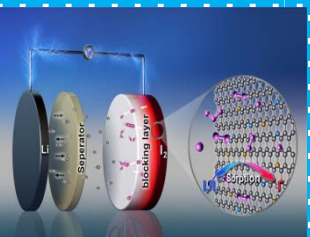


Review

Intercalated water in aqueous batteries

Biwei Xiao*. Carbon Energy. 2020, 2(2), 251-264

Click to
cite this
article

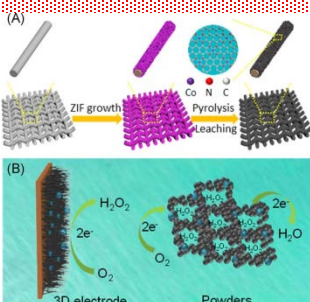


research

Honeycomb-like carbon materials derived from coffee extract via a "salty" thermal treatment for high-performance Li-I2 batteries

Zhong Su, Han Yeu Ling, Meng Li, Shangshu Qian, Hao Chen, Chao Lai, **Shanqing Zhang***. Carbon Energy. 2020, 2(2), 265-275

Click to
cite this
article

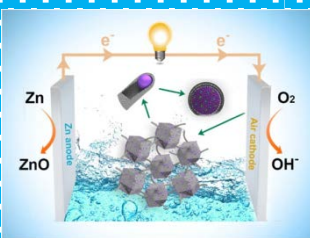


research

Design of hierarchical, three-dimensional free-standing single-atom electrode for H₂O₂ production in acidic media

Jincheng Zhang, Hongbin Yang, Jiajian Gao, Shibo Xi, Weizheng Cai, Junming Zhang, Ping Cui, **Bin Liu***. Carbon Energy. 2020, 2(2), 276-282

Click to
cite this
article

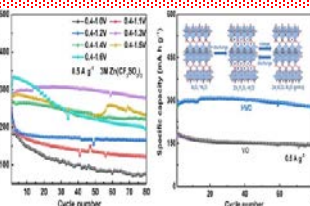


research

Metal-organic framework-derived Fe/Cu-substituted Co nanoparticles embedded in CNTs-grafted carbon polyhedron for Zn-air batteries

Kexin Zhang, Yelong Zhang, Qinghua Zhang, Zibin Liang, Lin Gu, Wenhan Guo, Bingjun Zhu, Shaojun Guo, **Ruqiang Zou***. Carbon Energy. 2020, 2(2), 283-293

Click to
cite this
article



research

Layered hydrated vanadium oxide as highly reversible intercalation cathode for aqueous Zn-ion batteries

Pinji Wang, Xiaodong Shi, Zhuoxi Wu, Shan Guo, **Jiang Zhou***, **Shuquan Liang***. Carbon Energy. 2020, 2(2), 294-301

Click to
cite this
article