

Ke Chu

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59
papers

3,579
citations

34
h-index

59
g-index

65
ext. papers

5,075
ext. citations

8.9
avg, IF

6.53
L-index

#	Paper	IF	Citations
59	Enhanced strength in bulk graphene/copper composites. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 184-190	1.6	193
58	Thermal properties of graphene/metal composites with aligned graphene. <i>Materials and Design</i> , 2018 , 140, 85-94	8.1	164
57	Largely enhanced thermal conductivity of graphene/copper composites with highly aligned graphene network. <i>Carbon</i> , 2018 , 127, 102-112	10.4	162
56	Two-dimensional (2D)/2D Interface Engineering of a MoS ₂ /CN Heterostructure for Promoted Electrocatalytic Nitrogen Fixation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 7081-7090	9.5	159
55	Efficient electrocatalytic N ₂ reduction on CoO quantum dots. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4389-4394	13	146
54	Multi-functional Mo-doping in MnO ₂ nanoflowers toward efficient and robust electrocatalytic nitrogen fixation. <i>Applied Catalysis B: Environmental</i> , 2020 , 264, 118525	21.8	130
53	Interface design of graphene/copper composites by matrix alloying with titanium. <i>Materials and Design</i> , 2018 , 144, 290-303	8.1	127
52	Interface and mechanical/thermal properties of graphene/copper composite with Mo ₂ C nanoparticles grown on graphene. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 109, 267-279	8.4	123
51	Interface structure and strengthening behavior of graphene/CuCr composites. <i>Carbon</i> , 2018 , 133, 127-139	10.4	121
50	Graphene defect engineering for optimizing the interface and mechanical properties of graphene/copper composites. <i>Carbon</i> , 2018 , 140, 112-123	10.4	118
49	Electronically Coupled SnO Quantum Dots and Graphene for Efficient Nitrogen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 31806-31815	9.5	118
48	Filling the nitrogen vacancies with sulphur dopants in graphitic C ₃ N ₄ for efficient and robust electrocatalytic nitrogen reduction. <i>Applied Catalysis B: Environmental</i> , 2020 , 267, 118693	21.8	111
47	Synergistic boron-dopants and boron-induced oxygen vacancies in MnO ₂ nanosheets to promote electrocatalytic nitrogen reduction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5200-5208	13	105
46	CuO nanoparticles on sulfur-doped graphene for nonenzymatic glucose sensing. <i>Electrochimica Acta</i> , 2015 , 156, 244-251	6.7	100
45	Fe-doping induced morphological changes, oxygen vacancies and Ce ³⁺ /Ce ³⁺ pairs in CeO ₂ for promoting electrocatalytic nitrogen fixation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5865-5873	13	95
44	Mo-doped SnS ₂ with enriched S-vacancies for highly efficient electrocatalytic N ₂ reduction: the critical role of the Mo ₃ Sn ₃ trimer. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 7117-7124	13	93
43	NiO Nanodots on Graphene for Efficient Electrochemical N ₂ Reduction to NH ₃ . <i>ACS Applied Energy Materials</i> , 2019 , 2, 2288-2295	6.1	92

42	Anisotropic mechanical properties of graphene/copper composites with aligned graphene. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 713, 269-277	5.3	86
41	Activating VS2 basal planes for enhanced NRR electrocatalysis: the synergistic role of S-vacancies and B dopants. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16195-16202	13	85
40	CuO/Graphene Nanocomposite for Nitrogen Reduction Reaction. <i>ChemCatChem</i> , 2019 , 11, 1441-1447	5.2	80
39	Ambient electrocatalytic nitrogen reduction on a MoO2/graphene hybrid: experimental and DFT studies. <i>Catalysis Science and Technology</i> , 2019 , 9, 4248-4254	5.5	66
38	Creating defects on graphene basal-plane toward interface optimization of graphene/CuCr composites. <i>Carbon</i> , 2019 , 143, 85-96	10.4	66
37	Efficient Electrocatalytic Nitrogen Fixation on FeMoO Nanorods. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 11789-11796	9.5	64
36	Boosted Electrocatalytic N Reduction on Fluorine-Doped SnO Mesoporous Nanosheets. <i>Inorganic Chemistry</i> , 2019 , 58, 10424-10431	5.1	63
35	Metal-free N, S co-doped graphene for efficient and durable nitrogen reduction reaction. <i>Journal of Materials Science</i> , 2019 , 54, 9088	4.3	61
34	Nitrogen-Doped NiO Nanosheet Array for Boosted Electrocatalytic N2 Reduction. <i>ChemCatChem</i> , 2019 , 11, 4529-4536	5.2	58
33	ZnO Quantum Dots Coupled with Graphene toward Electrocatalytic N Reduction: Experimental and DFT Investigations. <i>Chemistry - A European Journal</i> , 2019 , 25, 11933-11939	4.8	54
32	Plasma-engineered NiO nanosheets with enriched oxygen vacancies for enhanced electrocatalytic nitrogen fixation. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 455-463	6.8	52
31	Amorphization activated FeB2 porous nanosheets enable efficient electrocatalytic N2 fixation. <i>Journal of Energy Chemistry</i> , 2021 , 53, 82-89	12	49
30	Amorphous MoS3 enriched with sulfur vacancies for efficient electrocatalytic nitrogen reduction. <i>Journal of Energy Chemistry</i> , 2021 , 53, 132-138	12	47
29	Constructing an electron-rich interface over an Sb/Nb2CTx/MXene heterojunction for enhanced electrocatalytic nitrogen reduction. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 15955-15962	13	45
28	Synergistic Enhancement of Electrocatalytic Nitrogen Reduction Over Boron Nitride Quantum Dots Decorated Nb CT -MXene. <i>Small</i> , 2021 , 17, e2102363	11	42
27	Unveiling the Synergy of O-Vacancy and Heterostructure over MoO 3- x /MXene for N 2 Electroreduction to NH 3. <i>Advanced Energy Materials</i> , 2022 , 12, 2103022	21.8	42
26	Lithium Iron Oxide (LiFeO) for Electroreduction of Dinitrogen to Ammonia. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 37258-37264	9.5	35
25	In2O3 nanoparticle-reduced graphene oxide hybrid for electrocatalytic nitrogen fixation: Computational and experimental studies. <i>Journal of Materials Science</i> , 2020 , 55, 4624-4632	4.3	33

24	Electrochemical dopamine sensor based on P-doped graphene: Highly active metal-free catalyst and metal catalyst support. <i>Materials Science and Engineering C</i> , 2017 , 81, 452-458	8.3	32
23	Amorphization engineered VSe ₂ nanosheets with abundant Se-vacancies for enhanced N ₂ electroreduction. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 1742-1749	13	28
22	FeMo ₃ S ₄ for Efficient Nitrogen Reduction Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 12733-12740	8.3	28
21	Oxygen plasma treatment for improving graphene distribution and mechanical properties of graphene/copper composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 735, 398-407	5.3	27
20	Metal-free BN quantum dots/graphitic CN heterostructure for nitrogen reduction reaction. <i>Journal of Colloid and Interface Science</i> , 2022 , 606, 204-212	9.3	22
19	ZrB as an earth-abundant metal diboride catalyst for electroreduction of dinitrogen to ammonia. <i>Chemical Communications</i> , 2020 , 56, 13009-13012	5.8	19
18	A Janus antimony sulfide catalyst for highly selective N electroreduction. <i>Chemical Communications</i> , 2020 , 56, 10345-10348	5.8	18
17	High-Efficiency N Electroreduction Enabled by Se-Vacancy-Rich WSe in Water-in-Salt Electrolytes.. <i>ACS Nano</i> , 2022 ,	16.7	18
16	Bimetallic MnMoO with dual-active-centers for highly efficient electrochemical N fixation. <i>Chemical Communications</i> , 2020 , 56, 10227-10230	5.8	17
15	A Rare-Earth Samarium Oxide Catalyst for Electrocatalytic Nitrogen Reduction to Ammonia. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 13908-13914	8.3	17
14	FeVO porous nanorods for electrochemical nitrogen reduction: contribution of the Fe-V dimer as a dual electron-donation center. <i>Chemical Communications</i> , 2020 , 56, 10505-10508	5.8	16
13	Zn nanosheets: An earth-abundant metallic catalyst for efficient electrochemical ammonia synthesis. <i>Journal of Energy Chemistry</i> , 2021 , 54, 318-322	12	16
12	FeTe ₂ as an earth-abundant metal telluride catalyst for electrocatalytic nitrogen fixation. <i>Journal of Energy Chemistry</i> , 2021 , 56, 259-263	12	15
11	On the thermal expansion of CNT/Cu composites for electronic packaging applications. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 111, 439-443	2.6	14
10	Boron nitride quantum dots/Ti ₃ C ₂ T _x -MXene heterostructure for efficient electrocatalytic nitrogen fixation. <i>Energy and Environmental Materials</i> ,	13	11
9	PdFe Single-Atom Alloy Metallene for N Electroreduction.. <i>Angewandte Chemie - International Edition</i> , 2022 , e202205923	16.4	10
8	MXene Quantum Dots/Copper Heterostructure for Synergistically Enhanced N ₂ Electroreduction. <i>Energy and Environmental Materials</i> ,	13	9
7	SnNb ₂ O ₆ nanosheets for the electrocatalytic NRR: dual-active-center mechanism of Nb ₃ C and Sn ₄ C ₂ Nb ₅ C dimer. <i>Sustainable Energy and Fuels</i> , 2021 , 5, 4277-4283	5.8	8

6	MoS quantum dots for electrocatalytic N reduction. <i>Chemical Communications</i> , 2021 , 57, 9930-9933	5.8	7
5	MXene quantum dots decorated Ni nanoflowers for efficient Cr (VI) reduction. <i>Journal of Hazardous Materials</i> , 2022 , 423, 127053	12.8	5
4	Different Tribological Behaviors in Multilayer 2D Graphene and 3D Graphene Foam Modified DLC/H-DLC Film in Moist Air. <i>Tribology Letters</i> , 2022 , 70, 1	2.8	4
3	Enhanced Interfacial Bonding and Mechanical Properties of Graphene/Cu Composites: A Matrix-Alloying Method. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018 , 215, 1800104	1.6	2
2	A spinel ferrite catalyst for efficient electroreduction of dinitrogen to ammonia. <i>Dalton Transactions</i> , 2020 , 49, 12559-12564	4.3	2
1	Ultrasmall iridium nanoparticles on graphene for efficient nitrogen reduction reaction. <i>New Journal of Chemistry</i> , 2022 , 46, 5464-5469	3.6	1