Ke Chu

List of Publications by Year in Descending Order

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	Amorphization engineered VSe2□ nanosheets with abundant Se-vacancies for enhanced N2 electroreduction. *Journal of Materials Chemistry A*, **2022**, 10, 1742-1749	13	28
58	Different Tribological Behaviors in Multilayer 2D Graphene and 3D Graphene Foam Modified DLC/H-DLC Film in Moist Air. *Tribology Letters*, **2022**, 70, 1	2.8	4
57	Metal-free BN quantum dots/graphitic CN heterostructure for nitrogen reduction reaction. *Journal of Colloid and Interface Science*, **2022**, 606, 204-212	9.3	22
56	MXene quantum dots decorated Ni nanoflowers for efficient Cr (VI) reduction. *Journal of Hazardous Materials*, **2022**, 423, 127053	12.8	5
55	Ultrasmall iridium nanoparticles on graphene for efficient nitrogen reduction reaction. *New Journal of Chemistry*, **2022**, 46, 5464-5469	3.6	1
54	Unveiling the Synergy of O-Vacancy and Heterostructure over MoO 3- x /MXene for N 2 Electroreduction to NH 3. *Advanced Energy Materials*, **2022**, 12, 2103022	21.8	42
53	High-Efficiency N Electroreduction Enabled by Se-Vacancy-Rich WSe in Water-in-Salt Electrolytes.. *ACS Nano*, **2022**,	16.7	18
52	PdFe Single-Atom Alloy Metallene for N Electroreduction.. *Angewandte Chemie - International Edition*, **2022**, e202205923	16.4	10
51	Amorphization activated FeB2 porous nanosheets enable efficient electrocatalytic N2 fixation. *Journal of Energy Chemistry*, **2021**, 53, 82-89	12	49
50	FeTe2 as an earth-abundant metal telluride catalyst for electrocatalytic nitrogen fixation. *Journal of Energy Chemistry*, **2021**, 56, 259-263	12	15
49	Zn nanosheets: An earth-abundant metallic catalyst for efficient electrochemical ammonia synthesis. *Journal of Energy Chemistry*, **2021**, 54, 318-322	12	16
48	MoS quantum dots for electrocatalytic N reduction. *Chemical Communications*, **2021**, 57, 9930-9933	5.8	7
47	Constructing an electron-rich interface over an Sb/Nb2CTx□MXene heterojunction for enhanced electrocatalytic nitrogen reduction. *Journal of Materials Chemistry A*, **2021**, 9, 15955-15962	13	45
46	SnNb2O6 nanosheets for the electrocatalytic NRR: dual-active-center mechanism of Nb3c and Sn4c□Nb5c dimer. *Sustainable Energy and Fuels*, **2021**, 5, 4277-4283	5.8	8
45	Amorphous MoS3 enriched with sulfur vacancies for efficient electrocatalytic nitrogen reduction. *Journal of Energy Chemistry*, **2021**, 53, 132-138	12	47
44	Synergistic Enhancement of Electrocatalytic Nitrogen Reduction Over Boron Nitride Quantum Dots Decorated Nb CT -MXene. *Small*, **2021**, 17, e2102363	11	42
43	Mo-doped SnS2 with enriched S-vacancies for highly efficient electrocatalytic N2 reduction: the critical role of the Mo□Sn□Sn trimer. *Journal of Materials Chemistry A*, **2020**, 8, 7117-7124	13	93

42	Efficient Electrocatalytic Nitrogen Fixation on FeMoO Nanorods. *ACS Applied Materials & Interfaces*, **2020**, 12, 11789-11796	9.5	64
41	Fe-doping induced morphological changes, oxygen vacancies and Ce3+□e3+ pairs in CeO2 for promoting electrocatalytic nitrogen fixation. *Journal of Materials Chemistry A*, **2020**, 8, 5865-5873	13	95
40	Synergistic boron-dopants and boron-induced oxygen vacancies in MnO2 nanosheets to promote electrocatalytic nitrogen reduction. *Journal of Materials Chemistry A*, **2020**, 8, 5200-5208	13	105
39	Two-dimensional (2D)/2D Interface Engineering of a MoS/CN Heterostructure for Promoted Electrocatalytic Nitrogen Fixation. *ACS Applied Materials & Interfaces*, **2020**, 12, 7081-7090	9.5	159
38	Filling the nitrogen vacancies with sulphur dopants in graphitic C3N4 for efficient and robust electrocatalytic nitrogen reduction. *Applied Catalysis B: Environmental*, **2020**, 267, 118693	21.8	111
37	In2O3 nanoparticle-reduced graphene oxide hybrid for electrocatalytic nitrogen fixation: Computational and experimental studies. *Journal of Materials Science*, **2020**, 55, 4624-4632	4.3	33
36	Multi-functional Mo-doping in MnO2 nanoflowers toward efficient and robust electrocatalytic nitrogen fixation. *Applied Catalysis B: Environmental*, **2020**, 264, 118525	21.8	130
35	Plasma-engineered NiO nanosheets with enriched oxygen vacancies for enhanced electrocatalytic nitrogen fixation. *Inorganic Chemistry Frontiers*, **2020**, 7, 455-463	6.8	52
34	Activating VS2 basal planes for enhanced NRR electrocatalysis: the synergistic role of S-vacancies and B dopants. *Journal of Materials Chemistry A*, **2020**, 8, 16195-16202	13	85
33	Bimetallic MnMoO with dual-active-centers for highly efficient electrochemical N fixation. *Chemical Communications*, **2020**, 56, 10227-10230	5.8	17
32	A Janus antimony sulfide catalyst for highly selective N electroreduction. *Chemical Communications* , **2020**, 56, 10345-10348	5.8	18
31	FeVO porous nanorods for electrochemical nitrogen reduction: contribution of the Fe-V dimer as a dual electron-donation center. *Chemical Communications*, **2020**, 56, 10505-10508	5.8	16
30	Lithium Iron Oxide (LiFeO) for Electroreduction of Dinitrogen to Ammonia. *ACS Applied Materials & Interfaces*, **2020**, 12, 37258-37264	9.5	35
29	ZrB as an earth-abundant metal diboride catalyst for electroreduction of dinitrogen to ammonia. *Chemical Communications*, **2020**, 56, 13009-13012	5.8	19
28	A spinel ferrite catalyst for efficient electroreduction of dinitrogen to ammonia. *Dalton Transactions*, **2020**, 49, 12559-12564	4.3	2
27	A Rare-Earth Samarium Oxide Catalyst for Electrocatalytic Nitrogen Reduction to Ammonia. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 13908-13914	8.3	17
26	FeMo3S4 for Efficient Nitrogen Reduction Reaction. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 12733-12740	8.3	28
25	Efficient electrocatalytic N2 reduction on CoO quantum dots. *Journal of Materials Chemistry A*, **2019**, 7, 4389-4394	13	146

24	CuO/Graphene Nanocomposite for Nitrogen Reduction Reaction. *ChemCatChem*, **2019**, 11, 1441-1447	5.2	80
23	Metal-free N, S co-doped graphene for efficient and durable nitrogen reduction reaction. *Journal of Materials Science*, **2019**, 54, 9088	4.3	61
22	NiO Nanodots on Graphene for Efficient Electrochemical N2 Reduction to NH3. *ACS Applied Energy Materials*, **2019**, 2, 2288-2295	6.1	92
21	Electronically Coupled SnO Quantum Dots and Graphene for Efficient Nitrogen Reduction Reaction. *ACS Applied Materials & Interfaces*, **2019**, 11, 31806-31815	9.5	118
20	Ambient electrocatalytic nitrogen reduction on a MoO2/graphene hybrid: experimental and DFT studies. *Catalysis Science and Technology*, **2019**, 9, 4248-4254	5.5	66
19	Nitrogen-Doped NiO Nanosheet Array for Boosted Electrocatalytic N2 Reduction. *ChemCatChem*, **2019**, 11, 4529-4536	5.2	58
18	ZnO Quantum Dots Coupled with Graphene toward Electrocatalytic N Reduction: Experimental and DFT Investigations. *Chemistry - A European Journal*, **2019**, 25, 11933-11939	4.8	54
17	Boosted Electrocatalytic N Reduction on Fluorine-Doped SnO Mesoporous Nanosheets. *Inorganic Chemistry*, **2019**, 58, 10424-10431	5.1	63
16	Creating defects on graphene basal-plane toward interface optimization of graphene/CuCr composites. *Carbon*, **2019**, 143, 85-96	10.4	66
15	Interface design of graphene/copper composites by matrix alloying with titanium. *Materials and Design*, **2018**, 144, 290-303	8.1	127
14	Anisotropic mechanical properties of graphene/copper composites with aligned graphene. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2018**, 713, 269-277	5.3	86
13	Interface and mechanical/thermal properties of graphene/copper composite with Mo2C nanoparticles grown on graphene. *Composites Part A: Applied Science and Manufacturing*, **2018**, 109, 267-279	8.4	123
12	Interface structure and strengthening behavior of graphene/CuCr composites. *Carbon*, **2018**, 133, 127-139	10.4	121
11	Enhanced Interfacial Bonding and Mechanical Properties of Graphene/Cu Composites: A Matrix-Alloying Method. *Physica Status Solidi (A) Applications and Materials Science*, **2018**, 215, 1800104	1.6	2
10	Graphene defect engineering for optimizing the interface and mechanical properties of graphene/copper composites. *Carbon*, **2018**, 140, 112-123	10.4	118
9	Oxygen plasma treatment for improving graphene distribution and mechanical properties of graphene/copper composites. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 735, 398-407	5.3	27
8	Thermal properties of graphene/metal composites with aligned graphene. *Materials and Design*, **2018**, 140, 85-94	8.1	164
7	Largely enhanced thermal conductivity of graphene/copper composites with highly aligned graphene network. *Carbon*, **2018**, 127, 102-112	10.4	162

6	Electrochemical dopamine sensor based on P-doped graphene: Highly active metal-free catalyst and metal catalyst support. *Materials Science and Engineering C*, **2017**, 81, 452-458	8.3	32
5	CuO nanoparticles on sulfur-doped graphene for nonenzymatic glucose sensing. *Electrochimica Acta*, **2015**, 156, 244-251	6.7	100
4	Enhanced strength in bulk graphene□copper composites. *Physica Status Solidi (A) Applications and Materials Science*, **2014**, 211, 184-190	1.6	193
3	On the thermal expansion of CNT/Cu composites for electronic packaging applications. *Applied Physics A: Materials Science and Processing*, **2013**, 111, 439-443	2.6	14
2	Boron nitride quantum dots/Ti3C2Tx-MXene heterostructure for efficient electrocatalytic nitrogen fixation. *Energy and Environmental Materials*,	13	11
1	MXene Quantum Dots/Copper Heterostructure for Synergistically Enhanced N2 Electroreduction. *Energy and Environmental Materials*,	13	9