Sheng Chen

List of Publications by Year in Descending Order

70 papers	10,105 citations	42 h-index	72 g-index
72 ext. papers	11,145 ext. citations	11.3 avg, IF	6.79 L-index

#	Paper	IF	Citations
70	Battery-Driven N Electrolysis Enabled by High-Entropy Catalysts: From Theoretical Prediction to Prototype Model.. *Small*, **2022**, e2106358	11	0
69	Mechanistic analysis of multiple processes controlling solar-driven HO synthesis using engineered polymeric carbon nitride. *Nature Communications*, **2021**, 12, 3701	17.4	35
68	Efficient Two-Electron Oxygen Reduction to Hydrogen Peroxide Promoted by Ag-7,7,8,8-Tetracyanoquinodimethane Nanodots/Graphene Hydrogel Hybrid Electrocatalysts. *ChemistrySelect*, **2021**, 6, 6450-6453	1.8	0
67	A shape-memory V3O7·H2O electrocatalyst for foldable N2 fixation. *Journal of Materials Chemistry A*, **2021**, 9, 1603-1609	13	5
66	Rigid two-dimensional indium metal–organic frameworks boosting nitrogen electroreduction at all pH values. *Journal of Materials Chemistry A*, **2021**, 9, 20040-20047	13	1
65	Defect Regulating of Few-Layer Antimonene from Acid-Assisted Exfoliation for Enhanced Electrocatalytic Nitrogen Fixation. *ACS Applied Materials & Interfaces*, **2021**, 13, 40618-40628	9.5	5
64	Phosphine vapor-assisted construction of heterostructured Ni2P/NiTe2 catalysts for efficient hydrogen evolution. *Energy and Environmental Science*, **2020**, 13, 1799-1807	35.4	56
63	Iron-Cluster-Directed Synthesis of 2D/2D Fe-N-C/MXene Superlattice-like Heterostructure with Enhanced Oxygen Reduction Electrocatalysis. *ACS Nano*, **2020**, 14, 2436-2444	16.7	65
62	Phosphorus Vacancies that Boost Electrocatalytic Hydrogen Evolution by Two Orders of Magnitude. *Angewandte Chemie - International Edition*, **2020**, 59, 8181-8186	16.4	99
61	Metal-Sulfur Linkages Achieved by Organic Tethering of Ruthenium Nanocrystals for Enhanced Electrochemical Nitrogen Reduction. *Angewandte Chemie - International Edition*, **2020**, 59, 21465-21469	16.4	22
60	Metal–Sulfur Linkages Achieved by Organic Tethering of Ruthenium Nanocrystals for Enhanced Electrochemical Nitrogen Reduction. *Angewandte Chemie*, **2020**, 132, 21649-21653	3.6	1
59	A zero-dimensional nickel, iron–metal–organic framework (MOF) for synergistic N2 electrofixation. *Journal of Materials Chemistry A*, **2020**, 8, 18810-18815	13	16
58	Defective Indium/Indium Oxide Heterostructures for Highly Selective Carbon Dioxide Electrocatalysis. *Inorganic Chemistry*, **2020**, 59, 12437-12444	5.1	15
57	Shock Exfoliation of Graphene Fluoride in Microwave. *Small*, **2020**, 16, e1903397	11	14
56	Synergistic bimetallic CoFeO clusters supported on graphene for ambient electrocatalytic reduction of nitrogen to ammonia. *Chemical Communications*, **2019**, 55, 12184-12187	5.8	27
55	Nanostructured amalgams with tuneable silver–mercury bonding sites for selective electroreduction of carbon dioxide into formate and carbon monoxide. *Journal of Materials Chemistry A*, **2019**, 7, 15907-15912	13	22
54	Microwave-assisted shock synthesis of diverse ultrathin graphene-derived materials. *Materials Chemistry Frontiers*, **2019**, 3, 1433-1439	7.8	11

53	Prussian White Hierarchical Nanotubes with Surface-Controlled Charge Storage for Sodium-Ion Batteries. *Advanced Functional Materials*, **2019**, 29, 1806405	15.6	75
52	Manipulation of Charge Transport by Metallic V O Decorated on Bismuth Vanadate Photoelectrochemical Catalyst. *Advanced Materials*, **2019**, 31, e1807204	24	38
51	Processable Surface Modification of Nickel-Heteroatom (N, S) Bridge Sites for Promoted Alkaline Hydrogen Evolution. *Angewandte Chemie - International Edition*, **2019**, 58, 461-466	16.4	74
50	Strained Nickel Phosphide Nanosheet Array. *ACS Applied Materials & Interfaces*, **2018**, 10, 30029-30034	9.5	13
49	Metal-Cluster-Directed Surface Charge Manipulation of Two-Dimensional Nanomaterials for Efficient Urea Electrocatalytic Conversion. *ACS Applied Nano Materials*, **2018**, 1, 6649-6655	5.6	10
48	Closely Arranged 3D□D Graphene□Nickel Sulfide Superstructures for Bifunctional Hydrogen Electrocatalysis. *ACS Applied Energy Materials*, **2018**, 1, 6368-6373	6.1	5
47	Processable Surface Modification of Nickel-Heteroatom (N, S) Bridge Sites for Promoted Alkaline Hydrogen Evolution. *Angewandte Chemie*, **2018**, 131, 471	3.6	4
46	Mxene-Directed Dual Amphiphilicity at Liquid, Solid, and Gas Interfaces. *Chemistry - an Asian Journal* , **2018**, 13, 3850-3854	4.5	2
45	Ultrathin metal-organic framework array for efficient electrocatalytic water splitting. *Nature Communications*, **2017**, 8, 15341	17.4	794
44	Three dimensional nitrogen-doped graphene hydrogels with in situ deposited cobalt phosphate nanoclusters for efficient oxygen evolution in a neutral electrolyte. *Nanoscale Horizons*, **2016**, 1, 41-44	10.8	46
43	Anion and Cation Modulation in Metal Compounds for Bifunctional Overall Water Splitting. *ACS Nano*, **2016**, 10, 8738-45	16.7	310
42	Size Fractionation of Two-Dimensional Sub-Nanometer Thin Manganese Dioxide Crystals towards Superior Urea Electrocatalytic Conversion. *Angewandte Chemie*, **2016**, 128, 3868-3872	3.6	42
41	Size Fractionation of Two-Dimensional Sub-Nanometer Thin Manganese Dioxide Crystals towards Superior Urea Electrocatalytic Conversion. *Angewandte Chemie - International Edition*, **2016**, 55, 3804-8	16.4	225
40	Hydrothermally Driven Transformation of Oxygen Functional Groups at Multiwall Carbon Nanotubes for Improved Electrocatalytic Applications. *ACS Applied Materials & Interfaces*, **2016** , 8, 35513-35522	9.5	44
39	Three-dimensional MnO2 ultrathin nanosheet aerogels for high-performance Li□O2 batteries. *Journal of Materials Chemistry A*, **2015**, 3, 2559-2563	13	79
38	Heteroatom-Doped Graphene-Based Materials for Energy-Relevant Electrocatalytic Processes. *ACS Catalysis*, **2015**, 5, 5207-5234	13.1	675
37	Ionic liquid-assisted synthesis of N/S-double doped graphene microwires for oxygen evolution and Zn□air batteries. *Energy Storage Materials*, **2015**, 1, 17-24	19.4	59
36	Graphene-Directed Supramolecular Assembly of Multifunctional Polymer Hydrogel Membranes. *Advanced Functional Materials*, **2015**, 25, 126-133	15.6	62

35	Molybdenum sulfide clusters-nitrogen-doped graphene hybrid hydrogel film as an efficient three-dimensional hydrogen evolution electrocatalyst. *Nano Energy*, **2015**, 11, 11-18	17.1	209
34	Heteroatom-Doped Nanoporous Carbon for Electrocatalysis **2015**, 43-74		
33	3D WS2 Nanolayers@Heteroatom-Doped Graphene Films as Hydrogen Evolution Catalyst Electrodes. *Advanced Materials*, **2015**, 27, 4234-41	24	350
32	Three-Dimensional Smart Catalyst Electrode for Oxygen Evolution Reaction. *Advanced Energy Materials*, **2015**, 5, 1500936	21.8	155
31	Porous C3N4 nanolayers@N-graphene films as catalyst electrodes for highly efficient hydrogen evolution. *ACS Nano*, **2015**, 9, 931-40	16.7	569
30	Paper-Based N-Doped Carbon Films for Enhanced Oxygen Evolution Electrocatalysis. *Advanced Science*, **2015**, 2, 1400015	13.6	56
29	Shape Control of Mn3O4 Nanoparticles on Nitrogen-Doped Graphene for Enhanced Oxygen Reduction Activity. *Advanced Functional Materials*, **2014**, 24, 2072-2078	15.6	261
28	A graphene-MnO2 framework as a new generation of three-dimensional oxygen evolution promoter. *Chemical Communications*, **2014**, 50, 207-9	5.8	74
27	Conductive nanocomposite hydrogels with self-healing property. *RSC Advances*, **2014**, 4, 35149-35155	3.7	45
26	Nitrogen and oxygen dual-doped carbon hydrogel film as a substrate-free electrode for highly efficient oxygen evolution reaction. *Advanced Materials*, **2014**, 26, 2925-30	24	521
25	Mesoporous hybrid material composed of Mn3O4 nanoparticles on nitrogen-doped graphene for highly efficient oxygen reduction reaction. *Chemical Communications*, **2013**, 49, 7705-7	5.8	226
24	Hierarchically porous nitrogen-doped graphene-NiCo(2)O(4) hybrid paper as an advanced electrocatalytic water-splitting material. *ACS Nano*, **2013**, 7, 10190-6	16.7	457
23	N-doped graphene film-confined nickel nanoparticles as a highly efficient three-dimensional oxygen evolution electrocatalyst. *Energy and Environmental Science*, **2013**, 6, 3693	35.4	282
22	Ordered mesoporous core/shell SnO2/C nanocomposite as high-capacity anode material for lithium-ion batteries. *Chemistry - A European Journal*, **2013**, 19, 16897-901	4.8	63
21	Three-dimensional N-doped graphene hydrogel/NiCo double hydroxide electrocatalysts for highly efficient oxygen evolution. *Angewandte Chemie - International Edition*, **2013**, 52, 13567-70	16.4	498
20	Nanostructured morphology control for efficient supercapacitor electrodes. *Journal of Materials Chemistry A*, **2013**, 1, 2941-2954	13	232
19	Hierarchically porous graphene-based hybrid electrodes with excellent electrochemical performance. *Journal of Materials Chemistry A*, **2013**, 1, 9409	13	61
18	Self-assembled hydrothermal synthesis for producing a MnCO3/graphene hydrogel composite and its electrochemical properties. *RSC Advances*, **2013**, 3, 4400	3.7	58

17	Facile fabrication of nanoparticles confined in graphene films and their electrochemical properties. *Chemistry - A European Journal*, **2013**, 19, 7631-6	4.8	19
16	Hybrid hydrogels of porous graphene and nickel hydroxide as advanced supercapacitor materials. *Chemistry - A European Journal*, **2013**, 19, 7118-24	4.8	126
15	Three-Dimensional N-Doped Graphene Hydrogel/NiCo Double Hydroxide Electrocatalysts for Highly Efficient Oxygen Evolution. *Angewandte Chemie*, **2013**, 125, 13812-13815	3.6	62
14	Hydrothermal preparation of Co3O4@graphene nanocomposite for supercapacitor with enhanced capacitive performance. *Materials Letters*, **2012**, 82, 61-63	3.3	108
13	Fabrication of a low defect density graphene-nickel hydroxide nanosheet hybrid with enhanced electrochemical performance. *Nano Research*, **2012**, 5, 11-19	10	84
12	In situ assembly of Ag2O nanoparticles on low defect density carbon nanotubes. *Materials Chemistry and Physics*, **2012**, 136, 666-672	4.4	3
11	One-step synthesis of low defect density carbon nanotube-doped Ni(OH)2 nanosheets with improved electrochemical performances. *RSC Advances*, **2011**, 1, 484	3.7	64
10	An in situ oxidation route to fabricate graphene nanoplate□metal oxide composites. *Journal of Solid State Chemistry*, **2011**, 184, 1393-1399	3.3	22
9	One-Step Synthesis of Graphene□Cobalt Hydroxide Nanocomposites and Their Electrochemical Properties. *Journal of Physical Chemistry C*, **2010**, 114, 11829-11834	3.8	293
8	Graphene oxide--MnO2 nanocomposites for supercapacitors. *ACS Nano*, **2010**, 4, 2822-30	16.7	1802
7	From graphene to metal oxide nanolamellas: a phenomenon of morphology transmission. *ACS Nano* , **2010**, 4, 6212-8	16.7	107
6	Decorating graphene oxide with CuO nanoparticles in a water-isopropanol system. *Nanoscale*, **2010** , 2, 988-94	7.7	153
5	Facile solvothermal synthesis of graphene□MnOOH nanocomposites. *Journal of Solid State Chemistry*, **2010**, 183, 2552-2557	3.3	16
4	Shape-Controlled Synthesis of One-Dimensional MnO2 via a Facile Quick-Precipitation Procedure and its Electrochemical Properties. *Crystal Growth and Design*, **2009**, 9, 4356-4361	3.5	157
3	Flash-assisted doping graphene for ultrafast potassium transport. *Nano Research*,1	10	1
2	New electrocatalysts and mechanisms pave the way to urea oxidation with superior activities and stability. *Science China Chemistry*,1	7.9	0
1	Biomimetic assembly to superplastic metal□rganic framework aerogels for hydrogen evolution from seawater electrolysis. *Exploration*,217		20