

Xianjue Chen

List of Publications by Citations

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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.

91
papers

2,789
citations

29
h-index

49
g-index

94
ext. papers

3,531
ext. citations

9.6
avg, IF

5.54
L-index

#	Paper	IF	Citations
91	Interaction of Black Phosphorus with Oxygen and Water. <i>Chemistry of Materials</i> , 2016 , 28, 8330-8339	9.6	345
90	Vortex fluidic exfoliation of graphite and boron nitride. <i>Chemical Communications</i> , 2012 , 48, 3703-5	5.8	215
89	Ultrafast Aqueous Potassium-Ion Batteries Cathode for Stable Intermittent Grid-Scale Energy Storage. <i>Advanced Energy Materials</i> , 2018 , 8, 1801413	21.8	95
88	Nitrate removal from liquid effluents using microalgae immobilized on chitosan nanofiber mats. <i>Green Chemistry</i> , 2012 , 14, 2682	10	94
87	Optimising a vortex fluidic device for controlling chemical reactivity and selectivity. <i>Scientific Reports</i> , 2013 , 3, 2282	4.9	78
86	Large-area single-crystal AB-bilayer and ABA-trilayer graphene grown on a Cu/Ni(111) foil. <i>Nature Nanotechnology</i> , 2020 , 15, 289-295	28.7	76
85	Capturing the active sites of multimetallic (oxy)hydroxides for the oxygen evolution reaction. <i>Energy and Environmental Science</i> , 2020 , 13, 4225-4237	35.4	71
84	Shear induced formation of carbon and boron nitride nano-scrolls. <i>Nanoscale</i> , 2013 , 5, 498-502	7.7	62
83	Controlled Folding of Single Crystal Graphene. <i>Nano Letters</i> , 2017 , 17, 1467-1473	11.5	60
82	Operando Raman Spectroscopy Reveals Cr-Induced-Phase Reconstruction of NiFe and CoFe Oxyhydroxides for Enhanced Electrocatalytic Water Oxidation. <i>Chemistry of Materials</i> , 2020 , 32, 4303-4311	9.6	60
81	p-Phosphonic acid calix[8]arene assisted exfoliation and stabilization of 2D materials in water. <i>Chemical Communications</i> , 2012 , 48, 11407-9	5.8	54
80	Rapid thermal decomposition of confined graphene oxide films in air. <i>Carbon</i> , 2016 , 101, 71-76	10.4	52
79	Functional multi-layer graphene-algae hybrid material formed using vortex fluidics. <i>Green Chemistry</i> , 2013 , 15, 650	10	51
78	Surface Reconstruction of Ultrathin Palladium Nanosheets during Electrocatalytic CO Reduction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 21493-21498	16.4	50
77	Graphitization of graphene oxide films under pressure. <i>Carbon</i> , 2018 , 132, 294-303	10.4	49
76	Pyrene-conjugated hyaluronan facilitated exfoliation and stabilisation of low dimensional nanomaterials in water. <i>Chemical Communications</i> , 2013 , 49, 4845-7	5.8	49
75	Biogenic production of palladium nanocrystals using microalgae and their immobilization on chitosan nanofibers for catalytic applications. <i>RSC Advances</i> , 2013 , 3, 1009-1012	3.7	45

74	Non-covalently modified graphene supported ultrafine nanoparticles of palladium for hydrogen gas sensing. <i>RSC Advances</i> , 2013 , 3, 3213	3.7	43
73	High valence chromium regulated cobalt-iron-hydroxide for enhanced water oxidation. <i>Journal of Power Sources</i> , 2018 , 402, 381-387	8.9	43
72	Role of Graphene in Water-Assisted Oxidation of Copper in Relation to Dry Transfer of Graphene. <i>Chemistry of Materials</i> , 2017 , 29, 4546-4556	9.6	41
71	Controlling nanomaterial synthesis, chemical reactions and self assembly in dynamic thin films. <i>Chemical Society Reviews</i> , 2014 , 43, 1387-99	58.5	41
70	Porous Two-Dimensional Monolayer Metal-Organic Framework Material and Its Use for the Size-Selective Separation of Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 28107-28116	9.5	40
69	A versatile approach for decorating 2D nanomaterials with Pd or Pt nanoparticles. <i>Chemical Communications</i> , 2013 , 49, 1160-2	5.8	40
68	Entrapment of <i>Chlorella vulgaris</i> cells within graphene oxide layers. <i>RSC Advances</i> , 2013 , 3, 8180	3.7	39
67	Controlling the Thickness of Thermally Expanded Films of Graphene Oxide. <i>ACS Nano</i> , 2017 , 11, 665-674	16.7	36
66	Efficient Oxygen Evolution and Gas Bubble Release Achieved by a Low Gas Bubble Adhesive Iron-Nickel Vanadate Electrocatalyst. <i>Small</i> , 2020 , 16, e2002412	11	33
65	Shear flow assisted decoration of carbon nano-onions with platinum nanoparticles. <i>Chemical Communications</i> , 2013 , 49, 5171-3	5.8	30
64	Shear induced fabrication of intertwined single walled carbon nanotube rings. <i>Chemical Communications</i> , 2014 , 50, 11295-8	5.8	29
63	Ni ₂ P@carbon core-shell nanorod array derived from ZIF-67-Ni: Effect of phosphorization temperature on morphology, structure and hydrogen evolution reaction performance. <i>Applied Surface Science</i> , 2018 , 457, 933-941	6.7	29
62	Self-Supported NiSe ₂ Nanowire Arrays on Carbon Fiber Paper as Efficient and Stable Electrode for Hydrogen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 11884-11891	8.3	28
61	Synergistic bimetallic CoFeO clusters supported on graphene for ambient electrocatalytic reduction of nitrogen to ammonia. <i>Chemical Communications</i> , 2019 , 55, 12184-12187	5.8	27
60	Ultrastiff, Strong, and Highly Thermally Conductive Crystalline Graphitic Films with Mixed Stacking Order. <i>Advanced Materials</i> , 2019 , 31, e1903039	24	27
59	High performance graphene embedded rubber composites. <i>RSC Advances</i> , 2015 , 5, 81707-81712	3.7	27
58	Hierarchical patterning of multifunctional conducting polymer nanoparticles as a bionic platform for topographic contact guidance. <i>ACS Nano</i> , 2015 , 9, 1767-74	16.7	27
57	Confinement of Ionic Liquids at Single-Ni-Sites Boost Electroreduction of CO ₂ in Aqueous Electrolytes. <i>ACS Catalysis</i> , 2020 , 10, 13171-13178	13.1	27

56	Amphiphilic graphene oxide stabilisation of hexagonal BN and MoS ₂ sheets. <i>Chemical Communications</i> , 2015 , 51, 11709-12	5.8	26
55	Raman Spectral Band Oscillations in Large Graphene Bubbles. <i>Physical Review Letters</i> , 2018 , 120, 186104	7.4	26
54	Shear induced carboplatin binding within the cavity of a phospholipid mimic for increased anticancer efficacy. <i>Scientific Reports</i> , 2015 , 5, 10414	4.9	25
53	Co-Fe binary metal oxide electrocatalyst with synergistic interface structures for efficient overall water splitting. <i>Catalysis Today</i> , 2020 , 351, 44-49	5.3	25
52	Synthesis of nanocrystalline Mg-based Mg ₂ Ni composite powders by mechanical milling. <i>Materials Characterization</i> , 2015 , 106, 44-51	3.9	24
51	(N, B) Dual Heteroatom-Doped Hierarchical Porous Carbon Framework for Efficient Electroreduction of Carbon Dioxide. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 6003-6010	8.3	23
50	Nanostructured amalgams with tuneable silver/mercury bonding sites for selective electroreduction of carbon dioxide into formate and carbon monoxide. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15907-15912	13	22
49	Nitrate uptake by p-phosphonic acid calix[8]arene stabilized graphene. <i>Chemical Communications</i> , 2013 , 49, 8172-4	5.8	22
48	Metal-Sulfur Linkages Achieved by Organic Tethering of Ruthenium Nanocrystals for Enhanced Electrochemical Nitrogen Reduction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 21465-21469	16.4	22
47	Ultrahigh Areal Capacity Hydrogen-Ion Batteries with MoO ₃ Loading Over 90 mg cm ⁻² . <i>Advanced Functional Materials</i> , 2020 , 30, 2005477	15.6	22
46	Surface Reconstruction of Ultrathin Palladium Nanosheets during Electrocatalytic CO ₂ Reduction. <i>Angewandte Chemie</i> , 2020 , 132, 21677-21682	3.6	20
45	Nitrogen Vacancy Induced Coordinative Reconstruction of Single-Atom Ni Catalyst for Efficient Electrochemical CO ₂ Reduction. <i>Advanced Functional Materials</i> , 2107072	15.6	19
44	p-Phosphonic acid calix[8]arene assisted dispersion and stabilisation of pea-pod C60@multi-walled carbon nanotubes in water. <i>Chemical Communications</i> , 2015 , 51, 2399-402	5.8	18
43	Vertical Growth of Porous Perovskite Nanoarrays on Nickel Foam for Efficient Oxygen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 4863-4870	8.3	18
42	Template-free assembly of three-dimensional networks of graphene hollow spheres at the water/toluene interface. <i>Journal of Colloid and Interface Science</i> , 2014 , 430, 174-7	9.3	18
41	Unravelling the structure and function of human hair. <i>Green Chemistry</i> , 2013 , 15, 1268	10	18
40	Microencapsulation of bacterial strains in graphene oxide nano-sheets using vortex fluidics. <i>RSC Advances</i> , 2015 , 5, 37424-37430	3.7	18
39	Functional noble metal nanostructures involving pyrene-conjugated-hyaluronan stabilised reduced graphene oxide. <i>RSC Advances</i> , 2013 , 3, 25166	3.7	17

38	Self-assembled calixarene aligned patterning of noble metal nanoparticles on graphene. <i>Nanoscale</i> , 2014 , 6, 4517-20	7.7	16
37	Aqueous based synthesis of antimicrobial-decorated graphene. <i>Journal of Colloid and Interface Science</i> , 2015 , 443, 88-96	9.3	16
36	A zero-dimensional nickel, iron metal-organic framework (MOF) for synergistic N ₂ electrofixation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 18810-18815	13	16
35	Defective Indium/Indium Oxide Heterostructures for Highly Selective Carbon Dioxide Electrocatalysis. <i>Inorganic Chemistry</i> , 2020 , 59, 12437-12444	5.1	15
34	Microwave-Induced Plasma Synthesis of Defect-Rich, Highly Ordered Porous Phosphorus-Doped Cobalt Oxides for Overall Water Electrolysis. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 9971-9978	3.8	14
33	Metal-cation-modified graphene oxide membranes for water permeation. <i>Carbon</i> , 2020 , 170, 646-657	10.4	14
32	Liquid-phase exfoliation of F-diamane-like nanosheets. <i>Carbon</i> , 2021 , 175, 124-130	10.4	14
31	Wrinkle networks in exfoliated multilayer graphene and other layered materials. <i>Carbon</i> , 2020 , 156, 24-30	10.4	14
30	Shock Exfoliation of Graphene Fluoride in Microwave. <i>Small</i> , 2020 , 16, e1903397	11	14
29	Hydrogen induced p-phosphonic acid calix[8]arene controlled growth of Ru, Pt and Pd nanoparticles. <i>Chemical Communications</i> , 2014 , 50, 15167-70	5.8	13
28	Tuning the surface energy density of non-stoichiometric LaCoO ₃ perovskite for enhanced water oxidation. <i>Journal of Power Sources</i> , 2020 , 478, 228748	8.9	13
27	Microwave-assisted shock synthesis of diverse ultrathin graphene-derived materials. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 1433-1439	7.8	11
26	Sub-micron moulding topological mass transport regimes in angled vortex fluidic flow. <i>Nanoscale Advances</i> , 2021 , 3, 3064-3075	5.1	11
25	Dual-responsive, Methotrexate-loaded, Ascorbic acid-derived Micelles Exert Anti-tumor and Anti-metastatic Effects by Inhibiting NF- κ B Signaling in an Orthotopic Mouse Model of Human Choriocarcinoma. <i>Theranostics</i> , 2019 , 9, 4354-4374	12.1	10
24	Room temperature vortex fluidic synthesis of monodispersed amorphous proto-vaterite. <i>Chemical Communications</i> , 2014 , 50, 11764-7	5.8	10
23	Unravelling the structure of the C ₆₀ and p-Bu(t)-calix[8]arene complex. <i>Chemical Communications</i> , 2015 , 51, 11413-6	5.8	10
22	Structural insights into hydrogenated graphite prepared from fluorinated graphite through Birch-type reduction. <i>Carbon</i> , 2017 , 121, 309-321	10.4	9
21	Vitamin B on Graphene for Highly Efficient CO Electroreduction. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 41288-41293	9.5	9

20	Plasma enhanced vortex fluidic device manipulation of graphene oxide. <i>Chemical Communications</i> , 2016 , 52, 10755-8	5.8	9
19	Synthesis of few-layer graphene by lamp ablation. <i>Carbon</i> , 2015 , 94, 349-351	10.4	8
18	One-Step Photochemical Synthesis of Transition Metal-Graphene Hybrid for Electrocatalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4112-4118	8.3	6
17	Multifunctional Macroassembled Graphene Nanofilms with High Crystallinity. <i>Advanced Materials</i> , 2021 , 33, e2104195	24	6
16	p-Phosphonic acid calix[8]arene mediated synthesis of ultra-large, ultra-thin, single-crystal gold nanoplatelets. <i>Chemical Communications</i> , 2019 , 55, 3785-3788	5.8	5
15	Modification of the Interlayer Coupling and Chemical Reactivity of Multilayer Graphene through Wrinkle Engineering. <i>Chemistry of Materials</i> , 2021 , 33, 2506-2515	9.6	5
14	Liquid-phase water isotope separation using graphene-oxide membranes. <i>Carbon</i> , 2022 , 186, 344-354	10.4	4
13	Nitrate uptake by p-phosphonic acid or p-(trimethylammonium)methyl calix[8]arene stablized laminar materials. <i>RSC Advances</i> , 2014 , 4, 48348-48352	3.7	3
12	Ruthenium Complexes in Homogeneous and Heterogeneous Catalysis for Electroreduction of CO ₂ . <i>ChemCatChem</i> , 2020 , 12, 1292-1296	5.2	3
11	Preparation and Applications of Fluorinated Graphenes. <i>Journal of Carbon Research</i> , 2021 , 7, 20	3.3	3
10	Calixarene-mediated assembly of water-soluble C-attached ultrathin graphite hybrids for efficient activation of reactive oxygen species to treat neuroblastoma cells. <i>Chemical Communications</i> , 2020 , 56, 7325-7328	5.8	2
9	Sub-Micron Moulding Topological Mass Transport Regimes in Angled Vortex Fluidic Flow		2
8	Stage-1 cationic C60 intercalated graphene oxide films. <i>Carbon</i> , 2021 , 175, 131-140	10.4	2
7	Liquid interface evolution of polyhedral-like graphene. <i>Chemical Communications</i> , 2015 , 51, 14609-12	5.8	1
6	Flash-assisted doping graphene for ultrafast potassium transport. <i>Nano Research</i> , 1	10	1
5	Vortex fluidic induced mass transfer across immiscible phases.. <i>Chemical Science</i> , 2022 , 13, 3375-3385	9.4	1
4	F-diamane-like nanosheets from expanded fluorinated graphite. <i>Applied Surface Science</i> , 2022 , 583, 152534	5.4	1
3	Metal-Sulfur Linkages Achieved by Organic Tethering of Ruthenium Nanocrystals for Enhanced Electrochemical Nitrogen Reduction. <i>Angewandte Chemie</i> , 2020 , 132, 21649-21653	3.6	1

2	Graphite-Mediated Microwave-Exfoliated Graphene Fluoride as Supercapacitor Electrodes. <i>Nanomaterials</i> , 2022 , 12, 1796	5.4	1
1	Spatially confined atomic dispersion of metals in thermally reduced graphene oxide films. <i>Carbon</i> , 2021 , 188, 367-367	10.4	