

# Xianjue Chen

## List of Publications by Year in Descending Order

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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	Vortex fluidic induced mass transfer across immiscible phases.. <i>Chemical Science</i> , <b>2022</b> , 13, 3375-3385	9.4	1
90	F-diamane-like nanosheets from expanded fluorinated graphite. <i>Applied Surface Science</i> , <b>2022</b> , 583, 152534	5.4	1
89	Liquid-phase water isotope separation using graphene-oxide membranes. <i>Carbon</i> , <b>2022</b> , 186, 344-354	10.4	4
88	Graphite-Mediated Microwave-Exfoliated Graphene Fluoride as Supercapacitor Electrodes. <i>Nanomaterials</i> , <b>2022</b> , 12, 1796	5.4	1
87	Spatially confined atomic dispersion of metals in thermally reduced graphene oxide films. <i>Carbon</i> , <b>2021</b> , 188, 367-367	10.4	
86	Multifunctional Macroassembled Graphene Nanofilms with High Crystallinity. <i>Advanced Materials</i> , <b>2021</b> , 33, e2104195	24	6
85	Liquid-phase exfoliation of F-diamane-like nanosheets. <i>Carbon</i> , <b>2021</b> , 175, 124-130	10.4	14
84	Stage-1 cationic C60 intercalated graphene oxide films. <i>Carbon</i> , <b>2021</b> , 175, 131-140	10.4	2
83	Modification of the Interlayer Coupling and Chemical Reactivity of Multilayer Graphene through Wrinkle Engineering. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 2506-2515	9.6	5
82	Sub-micron moulding topological mass transport regimes in angled vortex fluidic flow. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 3064-3075	5.1	11
81	Preparation and Applications of Fluorinated Graphenes. <i>Journal of Carbon Research</i> , <b>2021</b> , 7, 20	3.3	3
80	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> , <b>2020</b> , 56, 7325-7328	5.8	2
79	Vertical Growth of Porous Perovskite Nanoarrays on Nickel Foam for Efficient Oxygen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 4863-4870	8.3	18
78	(N, B) Dual Heteroatom-Doped Hierarchical Porous Carbon Framework for Efficient Electroreduction of Carbon Dioxide. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 6003-6010	8.3	23
77	Efficient Oxygen Evolution and Gas Bubble Release Achieved by a Low Gas Bubble Adhesive Iron-Nickel Vanadate Electrocatalyst. <i>Small</i> , <b>2020</b> , 16, e2002412	11	33
76	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> , <b>2020</b> , 124, 9971-9978	3.8	14
75	Large-area single-crystal AB-bilayer and ABA-trilayer graphene grown on a Cu/Ni(111) foil. <i>Nature Nanotechnology</i> , <b>2020</b> , 15, 289-295	28.7	76

74	Operando Raman Spectroscopy Reveals Cr-Induced-Phase Reconstruction of NiFe and CoFe Oxyhydroxides for Enhanced Electrocatalytic Water Oxidation. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 4303-4311	9.6	60
73	Ruthenium Complexes in Homogeneous and Heterogeneous Catalysis for Electroreduction of CO <sub>2</sub> . <i>ChemCatChem</i> , <b>2020</b> , 12, 1292-1296	5.2	3
72	Tuning the surface energy density of non-stoichiometric LaCoO <sub>3</sub> perovskite for enhanced water oxidation. <i>Journal of Power Sources</i> , <b>2020</b> , 478, 228748	8.9	13
71	Metal-cation-modified graphene oxide membranes for water permeation. <i>Carbon</i> , <b>2020</b> , 170, 646-657	10.4	14
70	Metal-Sulfur Linkages Achieved by Organic Tethering of Ruthenium Nanocrystals for Enhanced Electrochemical Nitrogen Reduction. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 21465-21469	16.4	22
69	Metal-Sulfur Linkages Achieved by Organic Tethering of Ruthenium Nanocrystals for Enhanced Electrochemical Nitrogen Reduction. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 21649-21653	3.6	1
68	A zero-dimensional nickel, iron-metal-organic framework (MOF) for synergistic N <sub>2</sub> electrofixation. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 18810-18815	13	16
67	Surface Reconstruction of Ultrathin Palladium Nanosheets during Electrocatalytic CO <sub>2</sub> Reduction. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 21677-21682	3.6	20
66	Surface Reconstruction of Ultrathin Palladium Nanosheets during Electrocatalytic CO Reduction. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 21493-21498	16.4	50
65	Confinement of Ionic Liquids at Single-Ni-Sites Boost Electroreduction of CO <sub>2</sub> in Aqueous Electrolytes. <i>ACS Catalysis</i> , <b>2020</b> , 10, 13171-13178	13.1	27
64	Ultrahigh Areal Capacity Hydrogen-Ion Batteries with MoO <sub>3</sub> Loading Over 90 mg cm <sup>-2</sup> . <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2005477	15.6	22
63	Capturing the active sites of multimetallic (oxy)hydroxides for the oxygen evolution reaction. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 4225-4237	35.4	71
62	Vitamin B on Graphene for Highly Efficient CO Electroreduction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 41288-41293	9.5	9
61	Defective Indium/Indium Oxide Heterostructures for Highly Selective Carbon Dioxide Electrocatalysis. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 12437-12444	5.1	15
60	Co-Fe binary metal oxide electrocatalyst with synergistic interface structures for efficient overall water splitting. <i>Catalysis Today</i> , <b>2020</b> , 351, 44-49	5.3	25
59	Wrinkle networks in exfoliated multilayer graphene and other layered materials. <i>Carbon</i> , <b>2020</b> , 156, 24-30	10.4	14
58	Shock Exfoliation of Graphene Fluoride in Microwave. <i>Small</i> , <b>2020</b> , 16, e1903397	11	14
57	Synergistic bimetallic CoFeO clusters supported on graphene for ambient electrocatalytic reduction of nitrogen to ammonia. <i>Chemical Communications</i> , <b>2019</b> , 55, 12184-12187	5.8	27

56	One-Step Photochemical Synthesis of Transition Metal-Graphene Hybrid for Electrocatalysis. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 4112-4118	8.3	6
55	Dual-responsive, Methotrexate-loaded, Ascorbic acid-derived Micelles Exert Anti-tumor and Anti-metastatic Effects by Inhibiting NF- $\kappa$ B Signaling in an Orthotopic Mouse Model of Human Choriocarcinoma. <i>Theranostics</i> , <b>2019</b> , 9, 4354-4374	12.1	10
54	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> , <b>2019</b> , 7, 15907-15912	13	22
53	Ultrastiff, Strong, and Highly Thermally Conductive Crystalline Graphitic Films with Mixed Stacking Order. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903039	24	27
52	Microwave-assisted shock synthesis of diverse ultrathin graphene-derived materials. <i>Materials Chemistry Frontiers</i> , <b>2019</b> , 3, 1433-1439	7.8	11
51	p-Phosphonic acid calix[8]arene mediated synthesis of ultra-large, ultra-thin, single-crystal gold nanoplatelets. <i>Chemical Communications</i> , <b>2019</b> , 55, 3785-3788	5.8	5
50	Graphitization of graphene oxide films under pressure. <i>Carbon</i> , <b>2018</b> , 132, 294-303	10.4	49
49	Raman Spectral Band Oscillations in Large Graphene Bubbles. <i>Physical Review Letters</i> , <b>2018</b> , 120, 186104	7.4	26
48	Self-Supported NiSe <sub>2</sub> Nanowire Arrays on Carbon Fiber Paper as Efficient and Stable Electrode for Hydrogen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 11884-11891	8.3	28
47	High valence chromium regulated cobalt-iron-hydroxide for enhanced water oxidation. <i>Journal of Power Sources</i> , <b>2018</b> , 402, 381-387	8.9	43
46	Ni <sub>2</sub> 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> , <b>2018</b> , 457, 933-941	6.7	29
45	Ultrafast Aqueous Potassium-Ion Batteries Cathode for Stable Intermittent Grid-Scale Energy Storage. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801413	21.8	95
44	Controlled Folding of Single Crystal Graphene. <i>Nano Letters</i> , <b>2017</b> , 17, 1467-1473	11.5	60
43	Role of Graphene in Water-Assisted Oxidation of Copper in Relation to Dry Transfer of Graphene. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 4546-4556	9.6	41
42	Structural insights into hydrogenated graphite prepared from fluorinated graphite through Birch-type reduction. <i>Carbon</i> , <b>2017</b> , 121, 309-321	10.4	9
41	Controlling the Thickness of Thermally Expanded Films of Graphene Oxide. <i>ACS Nano</i> , <b>2017</b> , 11, 665-674	16.7	36
40	Porous Two-Dimensional Monolayer Metal-Organic Framework Material and Its Use for the Size-Selective Separation of Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 28107-28116	9.5	40
39	Interaction of Black Phosphorus with Oxygen and Water. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 8330-8339	9.6	345

38	Rapid thermal decomposition of confined graphene oxide films in air. <i>Carbon</i> , <b>2016</b> , 101, 71-76	10.4	52
37	Plasma enhanced vortex fluidic device manipulation of graphene oxide. <i>Chemical Communications</i> , <b>2016</b> , 52, 10755-8	5.8	9
36	Amphiphilic graphene oxide stabilisation of hexagonal BN and MoS <sub>2</sub> sheets. <i>Chemical Communications</i> , <b>2015</b> , 51, 11709-12	5.8	26
35	Synthesis of few-layer graphene by lamp ablation. <i>Carbon</i> , <b>2015</b> , 94, 349-351	10.4	8
34	Synthesis of nanocrystalline Mg-based Mg <sub>2</sub> Ni composite powders by mechanical milling. <i>Materials Characterization</i> , <b>2015</b> , 106, 44-51	3.9	24
33	Liquid interface evolution of polyhedral-like graphene. <i>Chemical Communications</i> , <b>2015</b> , 51, 14609-12	5.8	1
32	High performance graphene embedded rubber composites. <i>RSC Advances</i> , <b>2015</b> , 5, 81707-81712	3.7	27
31	p-Phosphonic acid calix[8]arene assisted dispersion and stabilisation of pea-pod C60@multi-walled carbon nanotubes in water. <i>Chemical Communications</i> , <b>2015</b> , 51, 2399-402	5.8	18
30	Microencapsulation of bacterial strains in graphene oxide nano-sheets using vortex fluidics. <i>RSC Advances</i> , <b>2015</b> , 5, 37424-37430	3.7	18
29	Unravelling the structure of the C60 and p-Bu(t)-calix[8]arene complex. <i>Chemical Communications</i> , <b>2015</b> , 51, 11413-6	5.8	10
28	Shear induced carboplatin binding within the cavity of a phospholipid mimic for increased anticancer efficacy. <i>Scientific Reports</i> , <b>2015</b> , 5, 10414	4.9	25
27	Aqueous based synthesis of antimicrobial-decorated graphene. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 443, 88-96	9.3	16
26	Hierarchical patterning of multifunctional conducting polymer nanoparticles as a bionic platform for topographic contact guidance. <i>ACS Nano</i> , <b>2015</b> , 9, 1767-74	16.7	27
25	Controlling nanomaterial synthesis, chemical reactions and self assembly in dynamic thin films. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 1387-99	58.5	41
24	Nitrate uptake by p-phosphonic acid or p-(trimethylammonium)methyl calix[8]arene stabilized laminar materials. <i>RSC Advances</i> , <b>2014</b> , 4, 48348-48352	3.7	3
23	Room temperature vortex fluidic synthesis of monodispersed amorphous proto-vaterite. <i>Chemical Communications</i> , <b>2014</b> , 50, 11764-7	5.8	10
22	Self-assembled calixarene aligned patterning of noble metal nanoparticles on graphene. <i>Nanoscale</i> , <b>2014</b> , 6, 4517-20	7.7	16
21	Hydrogen induced p-phosphonic acid calix[8]arene controlled growth of Ru, Pt and Pd nanoparticles. <i>Chemical Communications</i> , <b>2014</b> , 50, 15167-70	5.8	13

20	Shear induced fabrication of intertwined single walled carbon nanotube rings. <i>Chemical Communications</i> , <b>2014</b> , 50, 11295-8	5.8	29
19	Template-free assembly of three-dimensional networks of graphene hollow spheres at the water/toluene interface. <i>Journal of Colloid and Interface Science</i> , <b>2014</b> , 430, 174-7	9.3	18
18	Entrapment of <i>Chlorella vulgaris</i> cells within graphene oxide layers. <i>RSC Advances</i> , <b>2013</b> , 3, 8180	3.7	39
17	Functional noble metal nanostructures involving pyrene-conjugated-hyaluronan stabilised reduced graphene oxide. <i>RSC Advances</i> , <b>2013</b> , 3, 25166	3.7	17
16	Unravelling the structure and function of human hair. <i>Green Chemistry</i> , <b>2013</b> , 15, 1268	10	18
15	Pyrene-conjugated hyaluronan facilitated exfoliation and stabilisation of low dimensional nanomaterials in water. <i>Chemical Communications</i> , <b>2013</b> , 49, 4845-7	5.8	49
14	Nitrate uptake by p-phosphonic acid calix[8]arene stabilized graphene. <i>Chemical Communications</i> , <b>2013</b> , 49, 8172-4	5.8	22
13	Biogenic production of palladium nanocrystals using microalgae and their immobilization on chitosan nanofibers for catalytic applications. <i>RSC Advances</i> , <b>2013</b> , 3, 1009-1012	3.7	45
12	Functional multi-layer graphene-algae hybrid material formed using vortex fluidics. <i>Green Chemistry</i> , <b>2013</b> , 15, 650	10	51
11	Shear induced formation of carbon and boron nitride nano-scrolls. <i>Nanoscale</i> , <b>2013</b> , 5, 498-502	7.7	62
10	Shear flow assisted decoration of carbon nano-onions with platinum nanoparticles. <i>Chemical Communications</i> , <b>2013</b> , 49, 5171-3	5.8	30
9	A versatile approach for decorating 2D nanomaterials with Pd or Pt nanoparticles. <i>Chemical Communications</i> , <b>2013</b> , 49, 1160-2	5.8	40
8	Optimising a vortex fluidic device for controlling chemical reactivity and selectivity. <i>Scientific Reports</i> , <b>2013</b> , 3, 2282	4.9	78
7	Non-covalently modified graphene supported ultrafine nanoparticles of palladium for hydrogen gas sensing. <i>RSC Advances</i> , <b>2013</b> , 3, 3213	3.7	43
6	Nitrate removal from liquid effluents using microalgae immobilized on chitosan nanofiber mats. <i>Green Chemistry</i> , <b>2012</b> , 14, 2682	10	94
5	Vortex fluidic exfoliation of graphite and boron nitride. <i>Chemical Communications</i> , <b>2012</b> , 48, 3703-5	5.8	215
4	p-Phosphonic acid calix[8]arene assisted exfoliation and stabilization of 2D materials in water. <i>Chemical Communications</i> , <b>2012</b> , 48, 11407-9	5.8	54
3	Flash-assisted doping graphene for ultrafast potassium transport. <i>Nano Research</i> , 1	10	1

2 Sub-Micron Moulding Topological Mass Transport Regimes in Angled Vortex Fluidic Flow 2

1 Nitrogen Vacancy Induced Coordinative Reconstruction of Single-Atom Ni Catalyst for Efficient Electrochemical CO<sub>2</sub> Reduction. *Advanced Functional Materials*,2107072 15.6 19