

Ming Huang

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.

78
papers

4,640
citations

37
h-index

67
g-index

83
ext. papers

5,730
ext. citations

12.5
avg, IF

5.79
L-index

#	Paper	IF	Citations
78	Folding and Fracture of Single Crystal Graphene Grown on a Cu(111) Foil.. <i>Advanced Materials</i> , 2022 , e2110509	24	0
77	Electromagnetic properties of graphene aerogels made by freeze-casting. <i>Chemical Engineering Journal</i> , 2022 , 428, 131337	14.7	3
76	Frustrated Lewis Pair Sites Boosting CO ₂ Photoreduction on Cs ₂ CuBr ₄ Perovskite Quantum Dots. <i>ACS Catalysis</i> , 2022 , 12, 2915-2926	13.1	10
75	The Crystal Plane is not the Key Factor for CO ₂ -to-Methane Electrosynthesis on Reconstructed Cu ₂ O Microparticles. <i>Angewandte Chemie</i> , 2022 , 134,	3.6	1
74	Interfacial Electrolyte Effects on Electrocatalytic CO ₂ Reduction. <i>ACS Catalysis</i> , 2022 , 12, 331-362	13.1	9
73	Multifunctional Macroassembled Graphene Nanofilms with High Crystallinity. <i>Advanced Materials</i> , 2021 , 33, e2104195	24	6
72	Topochemical Intercalation of Graphitic Carbon Nitride with Alkali Metals in Ethylenediamine. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 9947-9955	3.8	1
71	A general approach to composites containing nonmetallic fillers and liquid gallium. <i>Science Advances</i> , 2021 , 7,	14.3	26
70	Substrate Engineering for CVD Growth of Single Crystal Graphene.. <i>Small Methods</i> , 2021 , 5, e2001213	12.8	14
69	The Wet-Oxidation of a Cu(111) Foil Coated by Single Crystal Graphene. <i>Advanced Materials</i> , 2021 , 33, e2102697	24	5
68	Single-crystal, large-area, fold-free monolayer graphene. <i>Nature</i> , 2021 , 596, 519-524	50.4	52
67	Efficient photocatalytic toluene degradation over heterojunction of GQDs@BiOCl ultrathin nanosheets with selective benzoic acid activation. <i>Journal of Hazardous Materials</i> , 2021 , 420, 126577	12.8	4
66	Crystal plane is not the key factor for CO ₂ -to-methane electrosynthesis on reconstructed Cu ₂ O microparticles. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	10
65	Atomically Dispersed Cobalt Trifunctional Electrocatalysts with Tailored Coordination Environment for Flexible Rechargeable Zn/Air Battery and Self-Driven Water Splitting. <i>Advanced Energy Materials</i> , 2020 , 10, 2002896	21.8	95
64	Universal mechanical exfoliation of large-area 2D crystals. <i>Nature Communications</i> , 2020 , 11, 2453	17.4	169
63	Van der waals heterojunctions for catalysis. <i>Materials Today Advances</i> , 2020 , 6, 100059	7.4	13
62	Growth of Single-Layer and Multilayer Graphene on Cu/Ni Alloy Substrates. <i>Accounts of Chemical Research</i> , 2020 , 53, 800-811	24.3	36

61	The Electromagnetic Absorption of a Na-Ethylenediamine Graphite Intercalation Compound. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16841-16848	9.5	6
60	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
59	On-chip 3D interdigital micro-supercapacitors with ultrahigh areal energy density. <i>Energy Storage Materials</i> , 2020 , 27, 17-24	19.4	30
58	Chemically induced transformation of chemical vapour deposition grown bilayer graphene into fluorinated single-layer diamond. <i>Nature Nanotechnology</i> , 2020 , 15, 59-66	28.7	100
57	CVD Growth of Porous Graphene Foam in Film Form. <i>Matter</i> , 2020 , 3, 487-497	12.7	20
56	Stamping Fabrication of Flexible Planar Micro-Supercapacitors Using Porous Graphene Inks. <i>Advanced Science</i> , 2020 , 7, 2001561	13.6	23
55	Charge Density Depinning in Defective MoTe ₂ Transistor by Oxygen Intercalation. <i>Advanced Functional Materials</i> , 2020 , 30, 2004880	15.6	9
54	Ultrahigh Strength and Modulus Graphene-Based Hybrid Carbons with AB-Stacked and Turbostratic Structures. <i>Advanced Functional Materials</i> , 2020 , 30, 2005381	15.6	5
53	MnO ₂ @NiO nanosheets@nanowires hierarchical structures with enhanced supercapacitive properties. <i>Journal of Materials Science</i> , 2020 , 55, 2482-2491	4.3	22
52	Single-Atom Catalysts: Atomically Dispersed Cobalt Trifunctional Electrocatalysts with Tailored Coordination Environment for Flexible Rechargeable Zn/Air Battery and Self-Driven Water Splitting (Adv. Energy Mater. 48/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070195	21.8	2
51	Organic Radical-Linked Covalent Triazine Framework with Paramagnetic Behavior. <i>ACS Nano</i> , 2019 , 13, 5251-5258	16.7	30
50	Adlayer-Free Large-Area Single Crystal Graphene Grown on a Cu(111) Foil. <i>Advanced Materials</i> , 2019 , 31, e1903615	24	53
49	Partial Oxidation-Induced Electrical Conductivity and Paramagnetism in a Ni(II) Tetraaza[14]annulene-Linked Metal Organic Framework. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16884-16893	16.4	31
48	Biotemplate derived three dimensional nitrogen doped graphene@MnO as bifunctional material for supercapacitor and oxygen reduction reaction catalyst. <i>Journal of Colloid and Interface Science</i> , 2019 , 544, 155-163	9.3	49
47	Enhanced Supercapacitive Performance of MnCO ₃ @rGO in an Electrolyte with KI as Additive. <i>ChemElectroChem</i> , 2019 , 6, 316-319	4.3	8
46	Uniform growth of NiCo ₂ S ₄ nanoflakes arrays on nickel foam for binder-free high-performance supercapacitors. <i>Journal of Materials Science</i> , 2019 , 54, 4821-4830	4.3	21
45	Preparation of Porous [email]protected]3O ₄ and Its Application in the Oxygen Reduction Reaction and Supercapacitor. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 831-837	8.3	46
44	Graphitization of graphene oxide films under pressure. <i>Carbon</i> , 2018 , 132, 294-303	10.4	49

43	Orientation-Dependent Strain Relaxation and Chemical Functionalization of Graphene on a Cu(111) Foil. <i>Advanced Materials</i> , 2018 , 30, 1706504	24	41
42	Raman Spectral Band Oscillations in Large Graphene Bubbles. <i>Physical Review Letters</i> , 2018 , 120, 186104	7.4	26
41	Quantum Dot Solar Cells 2018 , 611-658		0
40	Colossal grain growth yields single-crystal metal foils by contact-free annealing. <i>Science</i> , 2018 , 362, 1021-1025	107	107
39	Unraveling Chemical Interactions between Titanium and Graphene for Electrical Contact Applications. <i>ACS Applied Nano Materials</i> , 2018 , 1, 4828-4835	5.6	3
38	Highly Oriented Monolayer Graphene Grown on a Cu/Ni(111) Alloy Foil. <i>ACS Nano</i> , 2018 , 12, 6117-6127	16.7	100
37	Camphor-Enabled Transfer and Mechanical Testing of Centimeter-Scale Ultrathin Films. <i>Advanced Materials</i> , 2018 , 30, e1800888	24	24
36	Freeze-Casting Produces a Graphene Oxide Aerogel with a Radial and Centrosymmetric Structure. <i>ACS Nano</i> , 2018 , 12, 5816-5825	16.7	180
35	Engineering Ultrathin Co(OH) ₂ Nanosheets on Dandelion-Like CuCo ₂ O ₄ Microspheres for Binder-Free Supercapacitors. <i>ChemElectroChem</i> , 2017 , 4, 721-727	4.3	57
34	Controlled Folding of Single Crystal Graphene. <i>Nano Letters</i> , 2017 , 17, 1467-1473	11.5	60
33	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
32	Controlling the Thickness of Thermally Expanded Films of Graphene Oxide. <i>ACS Nano</i> , 2017 , 11, 665-674	16.7	36
31	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
30	Nanolaminate of metallic glass and graphene with enhanced elastic modulus, strength, and ductility in tension. <i>Scripta Materialia</i> , 2017 , 139, 63-66	5.6	14
29	Carrier-Type Modulation and Mobility Improvement of Thin MoTe ₂ . <i>Advanced Materials</i> , 2017 , 29, 1606433	34	111
28	Sculpturing the Core towards Mesoporous Manganese Dioxides Nanosheets-Built Nanotubes for Pseudocapacitance. <i>Electrochimica Acta</i> , 2016 , 187, 488-495	6.7	22
27	Support-Free Transfer of Ultrasoother Graphene Films Facilitated by Self-Assembled Monolayers for Electronic Devices and Patterns. <i>ACS Nano</i> , 2016 , 10, 1404-10	16.7	52
26	Graphene Coatings as Barrier Layers to Prevent the Water-Induced Corrosion of Silicate Glass. <i>ACS Nano</i> , 2016 , 10, 9794-9800	16.7	48

25	MnO ₂ nanostructures with three-dimensional (3D) morphology replicated from diatoms for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 7855-7861	13	88
24	Birnessite MnO ₂ -decorated hollow dandelion-like CuO architectures for supercapacitor electrodes. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 4212-4220	2.1	22
23	Synthesis of Co ₃ O ₄ /SnO ₂ @MnO ₂ core-shell nanostructures for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 12852-12857	13	99
22	Engineering birnessite-type MnO ₂ nanosheets on fiberglass for pH-dependent degradation of methylene blue. <i>Journal of Physics and Chemistry of Solids</i> , 2015 , 83, 40-46	3.9	43
21	Methanolysis of ammonia borane by shape-controlled mesoporous copper nanostructures for hydrogen generation. <i>Dalton Transactions</i> , 2015 , 44, 1070-6	4.3	43
20	MnO ₂ -based nanostructures for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 21380-21423	13	655
19	Facile synthesis of ultrathin manganese dioxide nanosheets arrays on nickel foam as advanced binder-free supercapacitor electrodes. <i>Journal of Power Sources</i> , 2015 , 277, 36-43	8.9	138
18	Hierarchical ZnO@MnO ₂ Core-Shell Pillar Arrays on Ni Foam for Binder-Free Supercapacitor Electrodes. <i>Electrochimica Acta</i> , 2015 , 152, 172-177	6.7	72
17	Rational Design of Porous MnO ₂ Tubular Arrays via Facile and Templated Method for High Performance Supercapacitors. <i>Electrochimica Acta</i> , 2015 , 154, 329-337	6.7	49
16	Merging of Kirkendall growth and Ostwald ripening: CuO@MnO ₂ core-shell architectures for asymmetric supercapacitors. <i>Scientific Reports</i> , 2014 , 4, 4518	4.9	199
15	Self-assembly of mesoporous nanotubes assembled from interwoven ultrathin birnessite-type MnO ₂ nanosheets for asymmetric supercapacitors. <i>Scientific Reports</i> , 2014 , 4, 3878	4.9	248
14	Facile synthesis of hierarchical Co ₃ O ₄ @MnO ₂ core-shell arrays on Ni foam for asymmetric supercapacitors. <i>Journal of Power Sources</i> , 2014 , 252, 98-106	8.9	307
13	Rational design of hierarchically porous birnessite-type manganese dioxides nanosheets on different one-dimensional titania-based nanowires for high performance supercapacitors. <i>Journal of Power Sources</i> , 2014 , 270, 675-683	8.9	46
12	Facile synthesis of Co ₃ O ₄ @NiCo ₂ O ₄ core-shell arrays on Ni foam for advanced binder-free supercapacitor electrodes. <i>Ceramics International</i> , 2014 , 40, 15641-15646	5.1	34
11	Layered manganese oxides-decorated and nickel foam-supported carbon nanotubes as advanced binder-free supercapacitor electrodes. <i>Journal of Power Sources</i> , 2014 , 269, 760-767	8.9	140
10	Hierarchical NiO nanoflake coated CuO flower core-shell nanostructures for supercapacitor. <i>Ceramics International</i> , 2014 , 40, 5533-5538	5.1	79
9	Facile synthesis of single-crystalline NiO nanosheet arrays on Ni foam for high-performance supercapacitors. <i>CrystEngComm</i> , 2014 , 16, 2878-2884	3.3	119
8	Hierarchical NiO moss decorated diatomites via facile and templated method for high performance supercapacitors. <i>Materials Letters</i> , 2014 , 120, 263-266	3.3	28

7	Facile synthesis of ATO/MnO ₂ core-shell architectures for electrochemical capacitive energy storage. <i>Ceramics International</i> , 2014 , 40, 10309-10315	5.1	9
6	One-pot synthesis of hierarchical MnO ₂ -modified diatomites for electrochemical capacitor electrodes. <i>Journal of Power Sources</i> , 2014 , 246, 449-456	8.9	125
5	Decoration of Cu nanowires with chemically modified TiO ₂ nanoparticles for their improved photocatalytic performance. <i>Journal of Materials Science</i> , 2013 , 48, 6728-6736	4.3	10
4	One-step hydrothermal synthesis of hierarchical MnO ₂ -coated CuO flower-like nanostructures with enhanced electrochemical properties for supercapacitor. <i>Materials Letters</i> , 2013 , 112, 203-206	3.3	58
3	Suspended hybrid films assembled from thiol-capped gold nanoparticles. <i>Nanoscale Research Letters</i> , 2012 , 7, 295	5	5
2	ONE-STEP AND CONTROLLABLE SELF-ASSEMBLY OF Au/TiO ₂ /CARBON SPHERES TERNARY NANOCOMPOSITES WITH A NANOPARTICLE MONOSHELL WALL. <i>Nano</i> , 2012 , 07, 1250025	1.1	6
1	Rapid Self-Decomposition of g-C ₃ N ₄ During Gas-Solid Photocatalytic CO ₂ Reduction and Its Effects on Performance Assessment. <i>ACS Catalysis</i> , 4560-4570	13.1	8