Ming Huang

List of Publications by Year
in descending order

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79	7,048	46918	62479
papers	citations	47 h-index	80 g-index

83	83	83	8947
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	MnO₂-based nanostructures for high-performance supercapacitors. Journal of Materials Chemistry A, 2015, 3, 21380-21423.	5.2	817
2	Universal mechanical exfoliation of large-area 2D crystals. Nature Communications, 2020, 11, 2453.	5.8	394
3	Facile synthesis of hierarchical Co3O4@MnO2 coreâ€“shell arrays on Ni foam for asymmetric supercapacitors. Journal of Power Sources, 2014, 252, 98-106.	4.0	354
4	Self-Assembly of Mesoporous Nanotubes Assembled from Interwoven Ultrathin Birnessite-type MnO2 Nanosheets for Asymmetric Supercapacitors. Scientific Reports, 2014, 4, 3878.	1.6	285
5	Freeze-Casting Produces a Graphene Oxide Aerogel with a Radial and Centrosymmetric Structure. ACS Nano, 2018, 12, 5816-5825.	7.3	273
6	Merging of Kirkendall Growth and Ostwald Ripening: CuO@MnO2 Core-shell Architectures for Asymmetric Supercapacitors. Scientific Reports, 2014, 4, 4518.	1.6	219
7	Atomically Dispersed Cobalt Trifunctional Electrocatalysts with Tailored Coordination Environment for Flexible Rechargeable Znâ€“Air Battery and Selfâ€Driven Water Splitting. Advanced Energy Materials, 2020, 10, 2002896.	10.2	210
8	Single-crystal, large-area, fold-free monolayer graphene. Nature, 2021, 596, 519-524.	13.7	205
9	Chemically induced transformation of chemical vapour deposition grown bilayer graphene into fluorinated single-layer diamond. Nature Nanotechnology, 2020, 15, 59-66.	15.6	184
10	Layered manganese oxides-decorated and nickel foam-supported carbon nanotubes as advanced binder-free supercapacitor electrodes. Journal of Power Sources, 2014, 269, 760-767.	4.0	159
11	Carrierâ€Type Modulation and Mobility Improvement of Thin MoTe₂. Advanced Materials, 2017, 29, 1606433.	11.1	158
12	Colossal grain growth yields single-crystal metal foils by contact-free annealing. Science, 2018, 362, 1021-1025.	6.0	158
13	Facile synthesis of ultrathin manganese dioxide nanosheets arrays on nickel foam as advanced binder-free supercapacitor electrodes. Journal of Power Sources, 2015, 277, 36-43.	4.0	154
14	One-pot synthesis of hierarchical MnO2-modified diatomites forÂelectrochemical capacitor electrodes. Journal of Power Sources, 2014, 246, 449-456.	4.0	147
15	Large-area single-crystal AB-bilayer and ABA-trilayer graphene grown on a Cu/Ni(111) foil. Nature Nanotechnology, 2020, 15, 289-295.	15.6	141
16	Facile synthesis of single-crystalline NiO nanosheet arrays on Ni foam for high-performance supercapacitors. CrystEngComm, 2014, 16, 2878-2884.	1.3	135
17	Highly Oriented Monolayer Graphene Grown on a Cu/Ni(111) Alloy Foil. ACS Nano, 2018, 12, 6117-6127.	7.3	132
18	Interfacial Electrolyte Effects on Electrocatalytic CO₂ Reduction. ACS Catalysis, 2022, 12, 331-362.	5.5	123

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19	Synthesis of Co₃O₄/SnO₂@MnO₂ coreâ€“shell nanostructures for high-performance supercapacitors. Journal of Materials Chemistry A, 2015, 3, 12852-12857.	5.2	111
20	MnO₂ nanostructures with three-dimensional (3D) morphology replicated from diatoms for high-performance supercapacitors. Journal of Materials Chemistry A, 2015, 3, 7855-7861.	5.2	105
21	Frustrated Lewis Pair Sites Boosting CO₂ Photoreduction on Cs₂CuBr₄ Perovskite Quantum Dots. ACS Catalysis, 2022, 12, 2915-2926.	5.5	94
22	Controlled Folding of Single Crystal Graphene. Nano Letters, 2017, 17, 1467-1473.	4.5	92
23	Hierarchical NiO nanoflake coated CuO flower coreâ€“shell nanostructures for supercapacitor. Ceramics International, 2014, 40, 5533-5538.	2.3	91
24	Adlayerâ€Free Largeâ€Area Single Crystal Graphene Grown on a Cu(111) Foil. Advanced Materials, 2019, 31, e1903615.	11.1	89
25	Rapid Self-Decomposition of g-C₃N₄ During Gasâ€“Solid Photocatalytic CO₂ Reduction and Its Effects on Performance Assessment. ACS Catalysis, 2022, 12, 4560-4570.	5.5	86
26	Hierarchical ZnO@MnO2 Core-Shell Pillar Arrays on Ni Foam for Binder-Free Supercapacitor Electrodes. Electrochimica Acta, 2015, 152, 172-177.	2.6	85
27	Graphitization of graphene oxide films under pressure. Carbon, 2018, 132, 294-303.	5.4	84
28	Template-Sacrificing Synthesis of Well-Defined Asymmetrically Coordinated Single-Atom Catalysts for Highly Efficient CO₂ Electrocatalytic Reduction. ACS Nano, 2022, 16, 2110-2119.	7.3	82
29	Engineering Ultrathin Co(OH)₂ Nanosheets on Dandelionâ€“like CuCo₂O₄ Microspheres for Binderâ€Free Supercapacitors. ChemElectroChem, 2017, 4, 721-727.	1.7	77
30	One-step hydrothermal synthesis of hierarchical MnO2-coated CuO flower-like nanostructures with enhanced electrochemical properties for supercapacitor. Materials Letters, 2013, 112, 203-206.	1.3	69
31	Support-Free Transfer of Ultrasmooth Graphene Films Facilitated by Self-Assembled Monolayers for Electronic Devices and Patterns. ACS Nano, 2016, 10, 1404-1410.	7.3	69
32	The Crystal Plane is not the Key Factor for CO₂â€toâ€Methane Electrosynthesis on Reconstructed Cu₂O Microparticles. Angewandte Chemie - International Edition, 2022, 61, .	7.2	69
33	Preparation of Porous Graphene@Mn₃O₄ and Its Application in the Oxygen Reduction Reaction and Supercapacitor. ACS Sustainable Chemistry and Engineering, 2019, 7, 831-837.	3.2	65
34	A general approach to composites containing nonmetallic fillers and liquid gallium. Science Advances, 2021, 7, .	4.7	65
35	Role of Graphene in Water-Assisted Oxidation of Copper in Relation to Dry Transfer of Graphene. Chemistry of Materials, 2017, 29, 4546-4556.	3.2	63
36	Biotemplate derived three dimensional nitrogen doped graphene@MnO2 as bifunctional material for supercapacitor and oxygen reduction reaction catalyst. Journal of Colloid and Interface Science, 2019, 544, 155-163.	5.0	63

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37	Orientationâ€Dependent Strain Relaxation and Chemical Functionalization of Graphene on a Cu(111) Foil. Advanced Materials, 2018, 30, 1706504.	11.1	60
38	Growth of Single-Layer and Multilayer Graphene on Cu/Ni Alloy Substrates. Accounts of Chemical Research, 2020, 53, 800-811.	7.6	60
39	Methanolysis of ammonia borane by shape-controlled mesoporous copper nanostructures for hydrogen generation. Dalton Transactions, 2015, 44, 1070-1076.	1.6	58
40	Graphene Coatings as Barrier Layers to Prevent the Water-Induced Corrosion of Silicate Glass. ACS Nano, 2016, 10, 9794-9800.	7.3	58
41	Rational Design of Porous MnO2 Tubular Arrays via Facile and Templated Method for High Performance Supercapacitors. Electrochimica Acta, 2015, 154, 329-337.	2.6	56
42	Controlling the Thickness of Thermally Expanded Films of Graphene Oxide. ACS Nano, 2017, 11, 665-674.	7.3	55
43	Rational design of hierarchically porous birnessite-type manganese dioxides nanosheets on different one-dimensional titania-based nanowires for high performance supercapacitors. Journal of Power Sources, 2014, 270, 675-683.	4.0	54
44	On-chip 3D interdigital micro-supercapacitors with ultrahigh areal energy density. Energy Storage Materials, 2020, 27, 17-24.	9.5	54
45	Porous Two-Dimensional Monolayer Metalâ€“Organic Framework Material and Its Use for the Size-Selective Separation of Nanoparticles. ACS Applied Materials & Interfaces, 2017, 9, 28107-28116.	4.0	51
46	Partial Oxidation-Induced Electrical Conductivity and Paramagnetism in a Ni(II) Tetraaza[14]annulene-Linked Metal Organic Framework. Journal of the American Chemical Society, 2019, 141, 16884-16893.	6.6	51
47	Engineering birnessite-type MnO2 nanosheets on fiberglass for pH-dependent degradation of methylene blue. Journal of Physics and Chemistry of Solids, 2015, 83, 40-46.	1.9	50
48	Stamping Fabrication of Flexible Planar Microâ€Supercapacitors Using Porous Graphene Inks. Advanced Science, 2020, 7, 2001561.	5.6	49
49	Facile synthesis of Co3O4@NiCo2O4 coreâ€“shell arrays on Ni foam for advanced binder-free supercapacitor electrodes. Ceramics International, 2014, 40, 15641-15646.	2.3	46
50	CVD Growth of Porous Graphene Foam in Film Form. Matter, 2020, 3, 487-497.	5.0	46
51	Raman Spectral Band Oscillations in Large Graphene Bubbles. Physical Review Letters, 2018, 120, 186104.	2.9	43
52	Organic Radical-Linked Covalent Triazine Framework with Paramagnetic Behavior. ACS Nano, 2019, 13, 5251-5258.	7.3	43
53	MnO2@NiO nanosheets@nanowires hierarchical structures with enhanced supercapacitive properties. Journal of Materials Science, 2020, 55, 2482-2491.	1.7	39
54	Uniform growth of NiCo2S4 nanoflakes arrays on nickel foam for binder-free high-performance supercapacitors. Journal of Materials Science, 2019, 54, 4821-4830.	1.7	33

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55	Camphorâ€Enabled Transfer and Mechanical Testing of Centimeterâ€Scale Ultrathin Films. Advanced Materials, 2018, 30, e1800888.	11.1	32
56	Hierarchical NiO moss decorated diatomites via facile and templated method for high performance supercapacitors. Materials Letters, 2014, 120, 263-266.	1.3	31
57	Efficient photocatalytic toluene degradation over heterojunction of GQDs@BiOCl ultrathin nanosheets with selective benzoic acid activation. Journal of Hazardous Materials, 2021, 420, 126577.	6.5	30
58	Multifunctional Macroassembled Graphene Nanofilms with High Crystallinity. Advanced Materials, 2021, 33, e2104195.	11.1	30
59	Sculpturing the Core towards Mesoporous Manganese Dioxides Nanosheets-Built Nanotubes for Pseudocapacitance. Electrochimica Acta, 2016, 187, 488-495.	2.6	27
60	Substrate Engineering for CVD Growth of Single Crystal Graphene. Small Methods, 2021, 5, e2001213.	4.6	25
61	Birnessite MnO2-decorated hollow dandelion-like CuO architectures for supercapacitor electrodes. Journal of Materials Science: Materials in Electronics, 2015, 26, 4212-4220.	1.1	24
62	Electromagnetic properties of graphene aerogels made by freeze-casting. Chemical Engineering Journal, 2022, 428, 131337.	6.6	24
63	Van der waals heterojunctions for catalysis. Materials Today Advances, 2020, 6, 100059.	2.5	23
64	Nanolaminate of metallic glass and graphene with enhanced elastic modulus, strength, and ductility in tension. Scripta Materialia, 2017, 139, 63-66.	2.6	21
65	Charge Density Depinning in Defective MoTe₂ Transistor by Oxygen Intercalation. Advanced Functional Materials, 2020, 30, 2004880.	7.8	20
66	The Wetâ€Oxidation of a Cu(111) Foil Coated by Single Crystal Graphene. Advanced Materials, 2021, 33, e2102697.	11.1	17
67	Enhanced Supercapacitive Performance of MnCO₃@rGO in an Electrolyte with KI as Additive. ChemElectroChem, 2019, 6, 316-319.	1.7	15
68	Ultrahigh Strength and Modulus Grapheneâ€Based Hybrid Carbons with ABâ€Stacked and Turbostratic Structures. Advanced Functional Materials, 2020, 30, 2005381.	7.8	13
69	On-chip high-energy interdigital micro-supercapacitors with 3D nanotubular array electrodes. Journal of Materials Chemistry A, 2022, 10, 14051-14059.	5.2	13
70	Decoration of Cu nanowires with chemically modified TiO2 nanoparticles for their improved photocatalytic performance. Journal of Materials Science, 2013, 48, 6728-6736.	1.7	12
71	The Electromagnetic Absorption of a Na-Ethylenediamine Graphite Intercalation Compound. ACS Applied Materials & Interfaces, 2020, 12, 16841-16848.	4.0	12
72	Folding and Fracture of Singleâ€Crystal Graphene Grown on a Cu(111) Foil. Advanced Materials, 2022, 34, e2110509.	11.1	11

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73	Facile synthesis of ATO/MnO2 coreâ€“shell architectures for electrochemical capacitive energy storage. Ceramics International, 2014, 40, 10309-10315.	2.3	10
74	ONE-STEP AND CONTROLLABLE SELF-ASSEMBLY OF Au/TiO₂/CARBON SPHERES TERNARY NANOCOMPOSITES WITH A NANOPARTICLE MONOSHELL WALL. Nano, 2012, 07, 1250025.	0.5	6
75	Unraveling Chemical Interactions between Titanium and Graphene for Electrical Contact Applications. ACS Applied Nano Materials, 2018, 1, 4828-4835.	2.4	6
76	Topochemical Intercalation of Graphitic Carbon Nitride with Alkali Metals in Ethylenediamine. Journal of Physical Chemistry C, 2021, 125, 9947-9955.	1.5	6
77	Suspended hybrid films assembled from thiol-capped gold nanoparticles. Nanoscale Research Letters, 2012, 7, 295.	3.1	5
78	Singleâ€Atom Catalysts: Atomically Dispersed Cobalt Trifunctional Electrocatalysts with Tailored Coordination Environment for Flexible Rechargeable Znâ€“Air Battery and Selfâ€Driven Water Splitting (Adv. Energy Mater. 48/2020). Advanced Energy Materials, 2020, 10, 2070195.	10.2	4
79	The Crystal Plane is not the Key Factor for CO ₂ â€toâ€Methane Electrosynthesis on Reconstructed Cu ₂ O Microparticles. Angewandte Chemie, 2022, 134, .	1.6	1