

# Ming Huang

## List of Publications by Year in descending order

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79  
papers

7,048  
citations

46918

47  
h-index

62479

80  
g-index

83  
all docs

83  
docs citations

83  
times ranked

8947  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electromagnetic properties of graphene aerogels made by freeze-casting. <i>Chemical Engineering Journal</i> , 2022, 428, 131337.	6.6	24
2	Folding and Fracture of Single-Crystal Graphene Grown on a Cu(111) Foil. <i>Advanced Materials</i> , 2022, 34, e2110509.	11.1	11
3	Template-Sacrificing Synthesis of Well-Defined Asymmetrically Coordinated Single-Atom Catalysts for Highly Efficient CO <sub>2</sub> Electrochemical Reduction. <i>ACS Nano</i> , 2022, 16, 2110-2119.	7.3	82
4	Frustrated Lewis Pair Sites Boosting CO <sub>2</sub> Photoreduction on Cs <sub>2</sub> CuBr <sub>4</sub> Perovskite Quantum Dots. <i>ACS Catalysis</i> , 2022, 12, 2915-2926.	5.5	94
5	Rapid Self-Decomposition of g-C <sub>3</sub> N <sub>4</sub> During Gas-Solid Photocatalytic CO <sub>2</sub> Reduction and Its Effects on Performance Assessment. <i>ACS Catalysis</i> , 2022, 12, 4560-4570.	5.5	86
6	The Crystal Plane is not the Key Factor for CO <sub>2</sub> to Methane Electrosynthesis on Reconstructed Cu <sub>2</sub> O Microparticles. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	1
7	The Crystal Plane is not the Key Factor for CO <sub>2</sub> to Methane Electrosynthesis on Reconstructed Cu <sub>2</sub> O Microparticles. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	69
8	Interfacial Electrolyte Effects on Electrochemical CO <sub>2</sub> Reduction. <i>ACS Catalysis</i> , 2022, 12, 331-362.	5.5	123
9	On-chip high-energy interdigital micro-supercapacitors with 3D nanotubular array electrodes. <i>Journal of Materials Chemistry A</i> , 2022, 10, 14051-14059.	5.2	13
10	A general approach to composites containing nonmetallic fillers and liquid gallium. <i>Science Advances</i> , 2021, 7, .	4.7	65
11	Substrate Engineering for CVD Growth of Single Crystal Graphene. <i>Small Methods</i> , 2021, 5, e2001213.	4.6	25
12	Topochemical Intercalation of Graphitic Carbon Nitride with Alkali Metals in Ethylenediamine. <i>Journal of Physical Chemistry C</i> , 2021, 125, 9947-9955.	1.5	6
13	The Wet Oxidation of a Cu(111) Foil Coated by Single Crystal Graphene. <i>Advanced Materials</i> , 2021, 33, e2102697.	11.1	17
14	Single-crystal, large-area, fold-free monolayer graphene. <i>Nature</i> , 2021, 596, 519-524.	13.7	205
15	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.	6.5	30
16	Multifunctional Macroassembled Graphene Nanofilms with High Crystallinity. <i>Advanced Materials</i> , 2021, 33, e2104195.	11.1	30
17	MnO <sub>2</sub> @NiO nanosheets@nanowires hierarchical structures with enhanced supercapacitive properties. <i>Journal of Materials Science</i> , 2020, 55, 2482-2491.	1.7	39
18	On-chip 3D interdigital micro-supercapacitors with ultrahigh areal energy density. <i>Energy Storage Materials</i> , 2020, 27, 17-24.	9.5	54

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19	Chemically induced transformation of chemical vapour deposition grown bilayer graphene into fluorinated single-layer diamond. <i>Nature Nanotechnology</i> , 2020, 15, 59-66.	15.6	184
20	CVD Growth of Porous Graphene Foam in Film Form. <i>Matter</i> , 2020, 3, 487-497.	5.0	46
21	Stamping Fabrication of Flexible Planar Micro-Supercapacitors Using Porous Graphene Inks. <i>Advanced Science</i> , 2020, 7, 2001561.	5.6	49
22	Charge Density Depinning in Defective MoTe <sub>2</sub> Transistor by Oxygen Intercalation. <i>Advanced Functional Materials</i> , 2020, 30, 2004880.	7.8	20
23	Ultrahigh Strength and Modulus Graphene-Based Hybrid Carbons with AB-Stacked and Turbostratic Structures. <i>Advanced Functional Materials</i> , 2020, 30, 2005381.	7.8	13
24	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.	10.2	210
25	Universal mechanical exfoliation of large-area 2D crystals. <i>Nature Communications</i> , 2020, 11, 2453.	5.8	394
26	Van der waals heterojunctions for catalysis. <i>Materials Today Advances</i> , 2020, 6, 100059.	2.5	23
27	Growth of Single-Layer and Multilayer Graphene on Cu/Ni Alloy Substrates. <i>Accounts of Chemical Research</i> , 2020, 53, 800-811.	7.6	60
28	The Electromagnetic Absorption of a Na-Ethylenediamine Graphite Intercalation Compound. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 16841-16848.	4.0	12
29	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.	15.6	141
30	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.	10.2	4
31	Adlayer-Free Large-Area Single Crystal Graphene Grown on a Cu(111) Foil. <i>Advanced Materials</i> , 2019, 31, e1903615.	11.1	89
32	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.	6.6	51
33	Organic Radical-Linked Covalent Triazine Framework with Paramagnetic Behavior. <i>ACS Nano</i> , 2019, 13, 5251-5258.	7.3	43
34	Biotemplate derived three dimensional nitrogen doped graphene@MnO <sub>2</sub> as bifunctional material for supercapacitor and oxygen reduction reaction catalyst. <i>Journal of Colloid and Interface Science</i> , 2019, 544, 155-163.	5.0	63
35	Enhanced Supercapacitive Performance of MnCO <sub>3</sub> @rGO in an Electrolyte with KI as Additive. <i>ChemElectroChem</i> , 2019, 6, 316-319.	1.7	15
36	Uniform growth of NiCo <sub>2</sub> S <sub>4</sub> nanoflakes arrays on nickel foam for binder-free high-performance supercapacitors. <i>Journal of Materials Science</i> , 2019, 54, 4821-4830.	1.7	33

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37	Preparation of Porous Graphene@Mn <sub>3</sub> O <sub>4</sub> and Its Application in the Oxygen Reduction Reaction and Supercapacitor. ACS Sustainable Chemistry and Engineering, 2019, 7, 831-837.	3.2	65
38	Graphitization of graphene oxide films under pressure. Carbon, 2018, 132, 294-303.	5.4	84
39	Orientation-Dependent Strain Relaxation and Chemical Functionalization of Graphene on a Cu(111) Foil. Advanced Materials, 2018, 30, 1706504.	11.1	60
40	Raman Spectral Band Oscillations in Large Graphene Bubbles. Physical Review Letters, 2018, 120, 186104.	2.9	43
41	Colossal grain growth yields single-crystal metal foils by contact-free annealing. Science, 2018, 362, 1021-1025.	6.0	158
42	Unraveling Chemical Interactions between Titanium and Graphene for Electrical Contact Applications. ACS Applied Nano Materials, 2018, 1, 4828-4835.	2.4	6
43	Highly Oriented Monolayer Graphene Grown on a Cu/Ni(111) Alloy Foil. ACS Nano, 2018, 12, 6117-6127.	7.3	132
44	Camphor-Enabled Transfer and Mechanical Testing of Centimeter-Scale Ultrathin Films. Advanced Materials, 2018, 30, e1800888.	11.1	32
45	Freeze-Casting Produces a Graphene Oxide Aerogel with a Radial and Centrosymmetric Structure. ACS Nano, 2018, 12, 5816-5825.	7.3	273
46	Engineering Ultrathin Co(OH) <sub>2</sub> Nanosheets on Dandelion-like CuCo <sub>2</sub> O <sub>4</sub> Microspheres for Binder-Free Supercapacitors. ChemElectroChem, 2017, 4, 721-727.	1.7	77
47	Controlled Folding of Single Crystal Graphene. Nano Letters, 2017, 17, 1467-1473.	4.5	92
48	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
49	Controlling the Thickness of Thermally Expanded Films of Graphene Oxide. ACS Nano, 2017, 11, 665-674.	7.3	55
50	Porous Two-Dimensional Monolayer Metal-Organic Framework Material and Its Use for the Size-Selective Separation of Nanoparticles. ACS Applied Materials & Interfaces, 2017, 9, 28107-28116.	4.0	51
51	Nanolaminate of metallic glass and graphene with enhanced elastic modulus, strength, and ductility in tension. Scripta Materialia, 2017, 139, 63-66.	2.6	21
52	Carrier-Type Modulation and Mobility Improvement of Thin MoTe <sub>2</sub> . Advanced Materials, 2017, 29, 1606433.	11.1	158
53	Graphene Coatings as Barrier Layers to Prevent the Water-Induced Corrosion of Silicate Glass. ACS Nano, 2016, 10, 9794-9800.	7.3	58
54	Sculpturing the Core towards Mesoporous Manganese Dioxides Nanosheets-Built Nanotubes for Pseudocapacitance. Electrochimica Acta, 2016, 187, 488-495.	2.6	27

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55	Support-Free Transfer of Ultrasoother Graphene Films Facilitated by Self-Assembled Monolayers for Electronic Devices and Patterns. ACS Nano, 2016, 10, 1404-1410.	7.3	69
56	Rational Design of Porous MnO <sub>2</sub> Tubular Arrays via Facile and Templated Method for High Performance Supercapacitors. Electrochimica Acta, 2015, 154, 329-337.	2.6	56
57	MnO <sub>2</sub> 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
58	Birnessite MnO <sub>2</sub> -decorated hollow dandelion-like CuO architectures for supercapacitor electrodes. Journal of Materials Science: Materials in Electronics, 2015, 26, 4212-4220.	1.1	24
59	Synthesis of Co <sub>3</sub> O <sub>4</sub> /SnO <sub>2</sub> @MnO <sub>2</sub> core-shell nanostructures for high-performance supercapacitors. Journal of Materials Chemistry A, 2015, 3, 12852-12857.	5.2	111
60	Engineering birnessite-type MnO <sub>2</sub> nanosheets on fiberglass for pH-dependent degradation of methylene blue. Journal of Physics and Chemistry of Solids, 2015, 83, 40-46.	1.9	50
61	Methanolysis of ammonia borane by shape-controlled mesoporous copper nanostructures for hydrogen generation. Dalton Transactions, 2015, 44, 1070-1076.	1.6	58
62	MnO <sub>2</sub> -based nanostructures for high-performance supercapacitors. Journal of Materials Chemistry A, 2015, 3, 21380-21423.	5.2	817
63	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
64	Hierarchical ZnO@MnO <sub>2</sub> Core-Shell Pillar Arrays on Ni Foam for Binder-Free Supercapacitor Electrodes. Electrochimica Acta, 2015, 152, 172-177.	2.6	85
65	One-pot synthesis of hierarchical MnO <sub>2</sub> -modified diatomites for electrochemical capacitor electrodes. Journal of Power Sources, 2014, 246, 449-456.	4.0	147
66	Facile synthesis of hierarchical Co <sub>3</sub> O <sub>4</sub> @MnO <sub>2</sub> core-shell arrays on Ni foam for asymmetric supercapacitors. Journal of Power Sources, 2014, 252, 98-106.	4.0	354
67	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
68	Facile synthesis of Co <sub>3</sub> O <sub>4</sub> @NiCo <sub>2</sub> O <sub>4</sub> core-shell arrays on Ni foam for advanced binder-free supercapacitor electrodes. Ceramics International, 2014, 40, 15641-15646.	2.3	46
69	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
70	Hierarchical NiO nanoflake coated CuO flower core-shell nanostructures for supercapacitor. Ceramics International, 2014, 40, 5533-5538.	2.3	91
71	Facile synthesis of single-crystalline NiO nanosheet arrays on Ni foam for high-performance supercapacitors. CrystEngComm, 2014, 16, 2878-2884.	1.3	135
72	Hierarchical NiO moss decorated diatomites via facile and templated method for high performance supercapacitors. Materials Letters, 2014, 120, 263-266.	1.3	31

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73	Facile synthesis of ATO/MnO <sub>2</sub> core-shell architectures for electrochemical capacitive energy storage. <i>Ceramics International</i> , 2014, 40, 10309-10315.	2.3	10
74	Merging of Kirkendall Growth and Ostwald Ripening: CuO@MnO <sub>2</sub> Core-shell Architectures for Asymmetric Supercapacitors. <i>Scientific Reports</i> , 2014, 4, 4518.	1.6	219
75	Self-Assembly of Mesoporous Nanotubes Assembled from Interwoven Ultrathin Birnessite-type MnO <sub>2</sub> Nanosheets for Asymmetric Supercapacitors. <i>Scientific Reports</i> , 2014, 4, 3878.	1.6	285
76	Decoration of Cu nanowires with chemically modified TiO <sub>2</sub> nanoparticles for their improved photocatalytic performance. <i>Journal of Materials Science</i> , 2013, 48, 6728-6736.	1.7	12
77	One-step hydrothermal synthesis of hierarchical MnO <sub>2</sub> -coated CuO flower-like nanostructures with enhanced electrochemical properties for supercapacitor. <i>Materials Letters</i> , 2013, 112, 203-206.	1.3	69
78	ONE-STEP AND CONTROLLABLE SELF-ASSEMBLY OF Au/TiO <sub>2</sub> /CARBON SPHERES TERNARY NANOCOMPOSITES WITH A NANOPARTICLE MONOSHELL WALL. <i>Nano</i> , 2012, 07, 1250025.	0.5	6
79	Suspended hybrid films assembled from thiol-capped gold nanoparticles. <i>Nanoscale Research Letters</i> , 2012, 7, 295.	3.1	5