

Chun-Hu Chen

List of Publications by Year in descending order

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82
papers

3,900
citations

136950

32
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118850

62
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87
docs citations

87
times ranked

5701
citing authors

#	ARTICLE	IF	CITATIONS
1	ZnO with Different Morphologies Synthesized by Solvothermal Methods for Enhanced Photocatalytic Activity. <i>Chemistry of Materials</i> , 2009, 21, 2875-2885.	6.7	444
2	3D Flowerlike γ -Nickel Hydroxide with Enhanced Electrochemical Activity Synthesized by Microwave-Assisted Hydrothermal Method. <i>Chemistry of Materials</i> , 2008, 20, 308-316.	6.7	419
3	Total oxidation of CO at ambient temperature using copper manganese oxide catalysts prepared by a redox method. <i>Applied Catalysis B: Environmental</i> , 2010, 99, 103-110.	20.2	159
4	Manganese Oxide Octahedral Molecular Sieves (OMS-2) Multiple Framework Substitutions: A New Route to OMS-2 Particle Size and Morphology Control. <i>Advanced Functional Materials</i> , 2011, 21, 312-323.	14.9	157
5	Novel Urchin-like CuO Synthesized by a Facile Reflux Method with Efficient Olefin Epoxidation Catalytic Performance. <i>Chemistry of Materials</i> , 2009, 21, 1253-1259.	6.7	151
6	Titanium Containing γ -MnO ₂ (TM) Hollow Spheres: One-Step Synthesis and Catalytic Activities in Li/Air Batteries and Oxidative Chemical Reactions. <i>Advanced Functional Materials</i> , 2010, 20, 3373-3382.	14.9	146
7	High quality, transferrable graphene grown on single crystal Cu(111) thin films on basal-plane sapphire. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	113
8	Plasma sprayed gadolinium zirconate thermal barrier coatings that are resistant to damage by molten Ca-Mg-Al-silicate glass. <i>Surface and Coatings Technology</i> , 2012, 206, 3911-3916.	4.8	110
9	Redox preparation of mixed-valence cobalt manganese oxide nanostructured materials: highly efficient noble metal-free electrocatalysts for sensing hydrogen peroxide. <i>Nanoscale</i> , 2014, 6, 334-341.	5.6	98
10	Effect of Microwave Frequency on Hydrothermal Synthesis of Nanocrystalline Tetragonal Barium Titanate. <i>Journal of Physical Chemistry C</i> , 2008, 112, 9659-9667.	3.1	97
11	Controlled Synthesis of Self-Assembled Metal Oxide Hollow Spheres Via Tuning Redox Potentials: Versatile Nanostructured Cobalt Oxides. <i>Advanced Materials</i> , 2008, 20, 1205-1209.	21.0	92
12	Green Decomposition of Organic Dyes Using Octahedral Molecular Sieve Manganese Oxide Catalysts. <i>Journal of Physical Chemistry A</i> , 2009, 113, 1523-1530.	2.5	92
13	New Synthetic Route, Characterization, and Electrocatalytic Activity of Nanosized Manganite. <i>Chemistry of Materials</i> , 2007, 19, 1832-1839.	6.7	90
14	Microwave-Assisted Hydrothermal Synthesis of Cryptomelane-Type Octahedral Molecular Sieves (OMS-2) and Their Catalytic Studies. <i>Chemistry of Materials</i> , 2010, 22, 3664-3669.	6.7	89
15	Syntheses of Nanostructures of Cobalt Hydroxalcite Like Compounds and Co ₃ O ₄ via a Microwave-Assisted Reflux Method. <i>Journal of Physical Chemistry C</i> , 2008, 112, 8177-8183.	3.1	85
16	Nanoscale manganese oxide octahedral molecular sieves (OMS-2) as efficient photocatalysts in 2-propanol oxidation. <i>Applied Catalysis A: General</i> , 2010, 375, 295-302.	4.3	85
17	Structural Distortion of Molybdenum-Doped Manganese Oxide Octahedral Molecular Sieves for Enhanced Catalytic Performance. <i>Inorganic Chemistry</i> , 2015, 54, 10163-10171.	4.0	78
18	Removal of Aqueous Phenol by Adsorption and Oxidation with Doped Hydrophobic Cryptomelane-Type Manganese Oxide (γ -OMS-2) Nanofibers. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9835-9844.	3.1	68

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19	Ultrasonic Nozzle Spray in Situ Mixing and Microwave-Assisted Preparation of Nanocrystalline Spinel Metal Oxides: Nickel Ferrite and Zinc Aluminate. <i>Journal of Physical Chemistry C</i> , 2008, 112, 1407-1414.	3.1	67
20	Systematic Control of Particle Size in Rapid Open-Vessel Microwave Synthesis of K-OMS-2 Nanofibers. <i>Journal of Physical Chemistry C</i> , 2008, 112, 6786-6793.	3.1	64
21	Facile and Cost-Efficient Synthesis of Quasi-1D/2D ZnO/MoS ₂ Nanocomposites for Highly Enhanced Visible-Light-Driven Photocatalytic Degradation of Organic Pollutants and Antibiotics. <i>Chemistry - A European Journal</i> , 2018, 24, 9305-9315.	3.3	61
22	Framework Doping of Indium in Manganese Oxide Materials: Synthesis, Characterization, and Electrocatalytic Reduction of Oxygen. <i>Chemistry of Materials</i> , 2008, 20, 2069-2071.	6.7	56
23	Microwave-Assisted Synthesis of Manganese Oxide Octahedral Molecular Sieve (OMS-2) Nanomaterials under Continuous Flow Conditions. <i>Journal of Physical Chemistry C</i> , 2010, 114, 14417-14426.	3.1	51
24	Preferential oxidation of CO in H ₂ -rich feeds over mesoporous copper manganese oxides synthesized by a redox method. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 6768-6779.	7.1	49
25	ZnO/La ₂ O ₂ CO ₃ layered composite: A new heterogeneous catalyst for the efficient ultra-fast microwave biofuel production. <i>Applied Catalysis B: Environmental</i> , 2011, 103, 200-205.	20.2	47
26	Catalytic synthesis, characterization and magnetic properties of iron phosphide nanowires. <i>Journal of Materials Chemistry</i> , 2004, 14, 296-298.	6.7	44
27	Binder-free graphene oxide doughs. <i>Nature Communications</i> , 2019, 10, 422.	12.8	44
28	Effective Synthesis of Highly Oxidized Graphene Oxide That Enables Wafer-scale Nanopatterning: Preformed Acidic Oxidizing Medium Approach. <i>Scientific Reports</i> , 2017, 7, 3908.	3.3	43
29	Graphene thickness-controlled photocatalysis and surface enhanced Raman scattering. <i>Nanoscale</i> , 2014, 6, 12805-12813.	5.6	41
30	γ-MnO ₂ octahedral molecular sieve: Preparation, characterization, and catalytic activity in the atmospheric oxidation of toluene. <i>Applied Catalysis A: General</i> , 2009, 355, 169-175.	4.3	34
31	Hydrophobic Polymer-Coated Metal Oxide Catalysts for Effective Low-Temperature Oxidation of CO under Moisture-Rich Conditions. <i>Chemistry of Materials</i> , 2010, 22, 3313-3315.	6.7	34
32	A Designed Single-Step Method for Synthesis and Structural Study of Organic-Inorganic Hybrid Materials: Well-Ordered Layered Manganese Oxide Nanocomposites. <i>Journal of the American Chemical Society</i> , 2008, 130, 14390-14391.	13.7	33
33	Single-step synthesis of manganese oxide octahedral molecular sieves with large pore sizes. <i>Chemical Communications</i> , 2010, 46, 5945.	4.1	31
34	Manganese octahedral molecular sieve catalysts for selective styrene oxide ring opening. <i>Catalysis Today</i> , 2009, 140, 162-168.	4.4	30
35	Nanostructured arrays of semiconducting octahedral molecular sieves by pulsed-laser deposition. <i>Nature Materials</i> , 2010, 9, 54-59.	27.5	29
36	A Foaming Esterification Sol-Gel Route for the Synthesis of Magnesia-Yttria Nanocomposites. <i>Journal of the American Ceramic Society</i> , 2011, 94, 367-371.	3.8	29

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37	Full Solution-Processed Synthesis and Mechanisms of a Recyclable and Bifunctional Au/ZnO Plasmonic Platform for Enhanced UV/Vis Photocatalysis and Optical Properties. <i>Chemistry - A European Journal</i> , 2016, 22, 14950-14961.	3.3	29
38	Facile Bottom-up Preparation of WS ₂ -Based Water-Soluble Quantum Dots as Luminescent Probes for Hydrogen Peroxide and Glucose. <i>Nanoscale Research Letters</i> , 2019, 14, 271.	5.7	28
39	Regenerable Acidity of Graphene Oxide in Promoting Multicomponent Organic Synthesis. <i>Scientific Reports</i> , 2019, 9, 15579.	3.3	28
40	Rational design of hetero-dimensional C-ZnO/MoS ₂ nanocomposite anchored on 3D mesoporous carbon framework towards synergistically enhanced stability and efficient visible-light-driven photocatalytic activity. <i>Chemosphere</i> , 2021, 266, 129148.	8.2	28
41	Enhanced Photocatalytic Performance of ZnO Nanorods Coupled by Two-Dimensional In ₂ S ₃ Nanoflakes under UV and Visible Light Irradiation. <i>Chemistry - A European Journal</i> , 2016, 22, 12777-12784.	3.3	27
42	Different influences of nanopore dimension and pH between chlorpheniramine adsorptions on graphene oxide-iron oxide suspension and particle. <i>Chemical Engineering Journal</i> , 2017, 307, 447-455.	12.7	27
43	Two-photon absorption within layered Bi ₂ Te ₃ topological insulators and the role of nonlinear transmittance therein. <i>Journal of Materials Chemistry C</i> , 2019, 7, 7027-7034.	5.5	26
44	Hierarchical nanostructures with unique Y-shaped interconnection networks in manganese substituted cobalt oxides: the enhancement effect on electrochemical sensing performance. <i>Chemical Communications</i> , 2013, 49, 3025.	4.1	23
45	Photochemical Green Synthesis of Nanostructured Cobalt Oxides as Hydrogen Peroxide Redox for Bifunctional Sensing Application. <i>Electrochimica Acta</i> , 2016, 190, 588-595.	5.2	23
46	Heterojunctions of silver-iron oxide on graphene for laser-coupled oxygen reduction reactions. <i>Chemical Communications</i> , 2018, 54, 7900-7903.	4.1	23
47	General Solvent-dependent Strategy toward Enhanced Oxygen Reduction Reaction in Graphene/Metal Oxide Nanohybrids: Effects of Nitrogen-containing Solvent. <i>Scientific Reports</i> , 2016, 6, 37174.	3.3	21
48	Redox-assisted multicomponent deposition of ultrathin amorphous metal oxides on arbitrary substrates: highly durable cobalt manganese oxyhydroxide for efficient oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17915-17928.	10.3	20
49	Role of carrier-transfer in the optical nonlinearity of graphene/Bi ₂ Te ₃ heterojunctions. <i>Nanoscale</i> , 2020, 12, 16956-16966.	5.6	20
50	Facet-specific heterojunction in gold-decorated pyramidal silicon for electrochemical hydrogen peroxide sensing. <i>Sensors and Actuators B: Chemical</i> , 2018, 266, 463-471.	7.8	19
51	Efficient One-Step Conversion of a Low-Grade Vegetable Oil to Biodiesel over a Zinc Carboxylate Metal-Organic Framework. <i>ACS Omega</i> , 2021, 6, 1834-1845.	3.5	18
52	Heteroepitaxial Growth of Nanoscale Oxide Shell/Fiber Superstructures by Mild Hydrothermal Processes. <i>Small</i> , 2010, 6, 988-992.	10.0	16
53	Hybridization of Graphene in 3D Complex Nanovoids: Synergistic Nanocomposites for Electrocatalytic Reduction of Hydrogen Peroxide. <i>Electrochimica Acta</i> , 2015, 180, 1014-1022.	5.2	16
54	Control of Catalytic Activity Via Porosity, Chemical Composition, and Morphology of Nanostructured Porous Manganese Oxide Materials. <i>Journal of the Chinese Chemical Society</i> , 2012, 59, 465-472.	1.4	15

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55	Activation Energy Assessing Potential-Dependent Activities and Site Reconstruction for Oxygen Evolution. ACS Energy Letters, 2022, 7, 2236-2243.	17.4	14
56	Removal of chlorpheniramine and variations of nitrosamine formation potentials in municipal wastewaters by adsorption onto the GO-Fe ₃ O ₄ . Environmental Science and Pollution Research, 2019, 26, 20701-20711.	5.3	12
57	Narrowband silicon waveguide Bragg reflector achieved by highly ordered graphene oxide gratings. Optics Letters, 2017, 42, 4768.	3.3	11
58	Discontinuity-Enhanced Thin Film Electrocatalytic Oxygen Evolution. Small, 2019, 15, e1903363.	10.0	11
59	Molecular Approach To Enhance Thermal Conductivity in Electrically Conductive Adhesives. ACS Applied Electronic Materials, 2019, 1, 1890-1898.	4.3	10
60	Rock Salt Oxide Hollow Spheres Achieving Durable Performance in Bifunctional Oxygen Energy Cells. ACS Applied Energy Materials, 2021, 4, 3448-3459.	5.1	10
61	Gold Nanoparticles Grown by Galvanic Replacement on Graphene-Coated Aluminum Panels as Large-Area Substrates for Surface-Enhanced Raman Scattering. ACS Applied Nano Materials, 2020, 3, 5783-5793.	5.0	9
62	Achieving Solidification and Redispersion of Semiconducting Polymer Dots by Layered Double Hydroxide Incorporation. ACS Applied Nano Materials, 2018, 1, 55-64.	5.0	7
63	Magnetic hollow buoyant alginate beads achieving rapid remediation of oil contamination on water. Journal of Environmental Chemical Engineering, 2021, 9, 104935.	6.7	7
64	Rub-Resistant Antibacterial Surface Conversion Layer on Stainless Steel. Advanced Materials Interfaces, 2022, 9, .	3.7	7
65	Enhanced Thermal Conducting Behavior of Pressurized Graphene-Silver Flake Composites. Langmuir, 2022, 38, 727-734.	3.5	6
66	Site-specific stamping of graphene micro-patterns over large areas using flexible stamps. Nanotechnology, 2012, 23, 235603.	2.6	5
67	Mechanistic insights into light-driven graphene-induced peroxide decomposition: radical generation and disproportionation. Chemical Communications, 2016, 52, 9291-9294.	4.1	5
68	Micro-droplet Trapping and Manipulation: Understanding Aerosol Better for a Healthier Environment. Chemistry - an Asian Journal, 2021, 16, 1644-1660.	3.3	3
69	Evolution of optical nonlinearity within graphene/Bi ₂ Te ₃ heterostructure. Journal of Materials Chemistry C, 0, , .	5.5	3
70	Light-Emitting Illumination and Field Emission Device of Potassium Hydroxide-Doped Electrochemically Reduced Graphene Oxide. IEEE Transactions on Electron Devices, 2017, 64, 2251-2256.	3.0	2
71	The Effect of Surface Pretreatment on the Corrosion Performance of Graphene Coatings on 6061 Aluminum Alloy. ECS Transactions, 2017, 77, 693-703.	0.5	2
72	Cobalt Iron Oxides Prepared by Acidic Redox-Assisted Precipitation: Characterization, Applications, and New Opportunities. ACS Applied Materials & Interfaces, 2021, , .	8.0	2

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73	Highly-Oxidized Graphene Oxide for Achieving Low-Loss Hybrid Waveguide Gratings on SOI. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-9.	2.9	2
74	Laser-Accelerated Mass Transport in Oxygen Reduction Via a Graphene-Supported Silver–Iron Oxide Heterojunction. Journal of Physical Chemistry Letters, 2022, 13, 4200-4206.	4.6	2
75	Field emission of electrochemical graphene oxide. , 2015, , .		1
76	Silicon/Graphene Oxide Hybrid Photonic Waveguide Filter. , 2016, , .		0
77	Si photonics waveguide Bragg reflector based on thin graphene oxide grating overlay. , 2018, , .		0
78	Electrocatalytic Oxygen Evolution: Discontinuity-Enhanced Thin Film Electrocatalytic Oxygen Evolution (Small 50/2019). Small, 2019, 15, 1970270.	10.0	0
79	Thin and Transferrable Graphene Oxide Grating Layer. , 2016, , .		0
80	Weakly-coupled Si waveguide Bragg reflector enabled by precisely-controlled graphene oxide gratings. , 2017, , .		0
81	Binary Cobalt Manganese Oxide Systems for Electrocatalytic Applications. ECS Meeting Abstracts, 2019, , .	0.0	0
82	Rub-Resistant Antibacterial Surface Conversion Layer on Stainless Steel (Adv. Mater. Interfaces) Tj ETQq0 0 0 rgBT Overlock 10 Tf 50	3.7	0