

Yangchuan Xing

List of Publications by Year in descending order

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58
papers

3,238
citations

201385

27
h-index

149479

56
g-index

59
all docs

59
docs citations

59
times ranked

4454
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and Electrochemical Characterization of Uniformly-Dispersed High Loading Pt Nanoparticles on Sonochemically-Treated Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2004, 108, 19255-19259.	1.2	586
2	Sonochemical Oxidation of Multiwalled Carbon Nanotubes. <i>Langmuir</i> , 2005, 21, 4185-4190.	1.6	319
3	Pt Nanoparticle Binding on Functionalized Multiwalled Carbon Nanotubes. <i>Chemistry of Materials</i> , 2006, 18, 1780-1788.	3.2	263
4	Fractal Morphology Analysis of Combustion-Generated Aggregates Using Angular Light Scattering and Electron Microscope Images. <i>Langmuir</i> , 1995, 11, 4848-4854.	1.6	198
5	Pt ²⁺ /Ru Nanoparticles Supported on Carbon Nanotubes as Methanol Fuel Cell Catalysts. <i>Journal of Physical Chemistry C</i> , 2007, 111, 2803-2808.	1.5	191
6	Enhancing Oxygen Reduction Reaction Activity via Pd ²⁺ /Au Alloy Sublayer Mediation of Pt Monolayer Electrocatalysts. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 3238-3242.	2.1	150
7	Electrochemical Durability of Carbon Nanotubes in Noncatalyzed and Catalyzed Oxidations. <i>Journal of the Electrochemical Society</i> , 2006, 153, A1823.	1.3	143
8	Increasing Pt oxygen reduction reaction activity and durability with a carbon-doped TiO ₂ nanocoating catalyst support. <i>Journal of Materials Chemistry</i> , 2012, 22, 16824.	6.7	91
9	Magnetic Nanoparticle Supported Catalyst for Atom Transfer Radical Polymerization. <i>Macromolecules</i> , 2006, 39, 6399-6405.	2.2	87
10	Hybrid Li-air battery cathodes with sparse carbon nanotube arrays directly grown on carbon fiber papers. <i>Energy and Environmental Science</i> , 2013, 6, 3339.	15.6	81
11	Electrochemical durability of carbon nanotubes at 80°C. <i>Journal of Power Sources</i> , 2008, 178, 75-79.	4.0	78
12	Atomic Structure and Electrical Activity of Grain Boundaries and Ruddlesden-Popper Faults in Cesium Lead Bromide Perovskite. <i>Advanced Materials</i> , 2019, 31, e1805047.	11.1	72
13	Synthesis and restructuring of inorganic nano-particles in counterflow diffusion flames. <i>Combustion and Flame</i> , 1996, 107, 85-102.	2.8	70
14	Polymer-Mediated Synthesis of Highly Dispersed Pt Nanoparticles on Carbon Black. <i>Langmuir</i> , 2005, 21, 9334-9338.	1.6	66
15	Prediction of Spherule Size in Gas Phase Nanoparticle Synthesis. <i>Journal of Nanoparticle Research</i> , 1999, 1, 277-291.	0.8	62
16	Methanol Electro-Oxidation on Pt-Ru Alloy Nanoparticles Supported on Carbon Nanotubes. <i>Energies</i> , 2009, 2, 789-804.	1.6	51
17	In situ light-scattering measurements of morphologically evolving flame-synthesized oxide nanoaggregates. <i>Applied Optics</i> , 1999, 38, 2686.	2.1	48
18	A hybrid Li-air battery with buckypaper air cathode and sulfuric acid electrolyte. <i>Electrochimica Acta</i> , 2012, 81, 20-24.	2.6	47

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19	Effect of pH on PtRu electrocatalysts prepared via a polyol process on carbon nanotubes. <i>Electrochimica Acta</i> , 2008, 53, 5563-5568.	2.6	45
20	Removal of Congo red dyes from aqueous solutions by porous β -alumina nanoshells. <i>Chemosphere</i> , 2022, 286, 131769.	4.2	45
21	Significantly Enhanced Emission Stability of CsPbBr ₃ Nanocrystals via Chemically Induced Fusion Growth for Optoelectronic Devices. <i>ACS Applied Nano Materials</i> , 2018, 1, 6091-6098.	2.4	42
22	Nitrogen-doped carbon-TiO ₂ composite as support of Pd electrocatalyst for formic acid oxidation. <i>Journal of Power Sources</i> , 2015, 284, 186-193.	4.0	35
23	Simulation of nanostructured electrodes for polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , 2008, 185, 1094-1100.	4.0	34
24	Nanoscale conductive niobium oxides made through low temperature phase transformation for electrocatalyst support. <i>RSC Advances</i> , 2014, 4, 9701.	1.7	33
25	Increasing round trip efficiency of hybrid Li-air battery with bifunctional catalysts. <i>Electrochimica Acta</i> , 2013, 103, 44-49.	2.6	31
26	Deposition of metallic nanoparticles on carbon nanotubes via a fast evaporation process. <i>Nanotechnology</i> , 2006, 17, 5596-5601.	1.3	27
27	Carbothermal synthesis of titanium oxycarbide as electrocatalyst support with high oxygen evolution reaction activity. <i>Journal of Materials Research</i> , 2013, 28, 454-460.	1.2	27
28	Pressure-Induced Phase Changes in Cesium Lead Bromide Perovskite Nanocrystals with and without Ruddlesden-Popper Faults. <i>Chemistry of Materials</i> , 2020, 32, 785-794.	3.2	25
29	High retention rate NCA cathode powders from spray drying and flame assisted spray pyrolysis using glycerol as the solvent. <i>Powder Technology</i> , 2020, 363, 1-6.	2.1	23
30	Techno-economic analysis of cathode material production using flame-assisted spray pyrolysis. <i>Energy</i> , 2021, 218, 119504.	4.5	23
31	High Content Niobium in Rutile Titania as Catalyst Support to Promote Methanol Electro-Oxidation. <i>ECS Electrochemistry Letters</i> , 2014, 3, F27-F29.	1.9	22
32	Enhancing methanol electrooxidation activity using double oxide catalyst support of tin oxide clusters on doped titanium dioxides. <i>Electrochimica Acta</i> , 2018, 261, 221-226.	2.6	19
33	Synthesis and composition evolution of bimetallic Pd-Pt alloy nanoparticles. <i>Nanotechnology</i> , 2007, 18, 385604.	1.3	15
34	Hydrogen Peroxide Generation in Divided-Cell Trickle Bed Electrochemical Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 11058-11064.	1.8	15
35	The Role of PTFE in Cathode Transition Layer in Aqueous Electrolyte Li-Air Battery. <i>Electrochimica Acta</i> , 2016, 191, 996-1000.	2.6	14
36	Nano-layer deposition of metal oxides via a condensed water film. <i>Communications Materials</i> , 2020, 1, .	2.9	14

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37	Influence of Li ions on the oxygen reduction reaction of platinum electrocatalyst. <i>Electrochemistry Communications</i> , 2011, 13, 646-649.	2.3	13
38	Cryo-ePDF: Overcoming Electron Beam Damage to Study the Local Atomic Structure of Amorphous ALD Aluminum Oxide Thin Films within a TEM. <i>ACS Omega</i> , 2021, 6, 8986-9000.	1.6	13
39	Stabilizing Li-rich NMC Materials by Using Precursor Salts with Acetate and Nitrate Anions for Li-ion Batteries. <i>Batteries</i> , 2019, 5, 69.	2.1	12
40	Substantially enhanced rate capability of lithium storage in Na ₂ Ti ₆ O ₁₃ with self-doping and carbon-coating. <i>RSC Advances</i> , 2018, 8, 8929-8936.	1.7	11
41	Synthesis of Layered LiMn _{1/3} Ni _{1/3} Co _{1/3} O ₂ Oxides for Lithium-ion Batteries using Biomass-derived Glycerol as Solvent. <i>Energy Technology</i> , 2018, 6, 710-717.	1.8	10
42	Oxidation of Dibenzothiophene in Diesel with In Situ Produced Hydrogen Peroxide. <i>Energy & Fuels</i> , 2018, 32, 8254-8258.	2.5	10
43	A scalable approach of using biomass derived glycerol to synthesize cathode materials for lithium-ion batteries. <i>Journal of Cleaner Production</i> , 2020, 271, 122518.	4.6	9
44	Effect of Cobalt and Nickel Contents on the Performance of Lithium Rich Materials Synthesized in Glycerol Solvent. <i>Journal of the Electrochemical Society</i> , 2018, 165, A2470-A2475.	1.3	8
45	Enhanced Third Harmonic Generation in Lead Bromide Perovskites with Ruddlesden-Popper Planar Faults. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4092-4097.	2.1	8
46	Enhanced Mechanical and Durability Properties of Cement Mortar by Using Alumina Nanocoating on Carbon Nanofibers. <i>Materials</i> , 2022, 15, 2768.	1.3	8
47	Temperature-induced restructuring of self-assembled PtPd nanoparticle superlattices. <i>Nanotechnology</i> , 2009, 20, 465604.	1.3	7
48	Magnetophoretic deposition of nanocomposites. <i>Journal of Materials Research</i> , 1999, 14, 4457-4459.	1.2	6
49	Inorganic Ruddlesden-Popper Faults in Cesium Lead Bromide Perovskite Nanocrystals for Enhanced Optoelectronic Performance. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 38579-38585.	4.0	6
50	Shape-controlled synthesis of iron oxide nanoparticles. <i>Journal of Materials Science Letters</i> , 2003, 22, 787-790.	0.5	5
51	Crystallization of Amorphous Alumina Whiskers on Carbon Nanotubes Under Electron Beam Irradiation. <i>Microscopy and Microanalysis</i> , 2019, 25, 1988-1989.	0.2	5
52	Dense Niobium Oxide Coating on Carbon Black as a Support to Platinum Electrocatalyst for Oxygen Reduction. <i>ChemistrySelect</i> , 2020, 5, 11431-11437.	0.7	5
53	Communication—Platinum and Tin Oxide Dispersed in a Fluffy TiO ₂ Nanolayer for Electrocatalytic Reduction of Oxygen. <i>Journal of the Electrochemical Society</i> , 2020, 167, 116526.	1.3	3
54	Improving Retention Rate of LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ Cathode Material Synthesized Using Glycerol Solvent. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2020, 17, .	1.1	3

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55	Atomic-Scale Identification of Planar Defects in Cesium Lead Bromide Perovskite Nanocrystals. <i>Microscopy and Microanalysis</i> , 2018, 24, 100-101.	0.2	2
56	Weak magnetic field-dependent photoluminescence properties of lead bromide perovskites. <i>Journal of Applied Physics</i> , 2022, 131, .	1.1	2
57	Niobium Doped Titania /CNT Hybrid As Pt Electrocatalyst Support for Methanol Oxidation. <i>ECS Meeting Abstracts</i> , 2013, , .	0.0	0
58	Defect-Induced Electronic Structure Changes in Cesium Lead Halide Nanocrystals. <i>Microscopy and Microanalysis</i> , 2019, 25, 660-661.	0.2	0