

Kwong-Yu Chan

List of Publications by Year in descending order

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171
papers

6,755
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66315

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173
docs citations

173
times ranked

8066
citing authors

#	ARTICLE	IF	CITATIONS
1	Supported mixed metal nanoparticles as electrocatalysts in low temperature fuel cells. <i>Journal of Materials Chemistry</i> , 2004, 14, 505.	6.7	354
2	Water-in-Oil Microemulsion Synthesis of Platinum-Ruthenium Nanoparticles, Their Characterization and Electrocatalytic Properties. <i>Chemistry of Materials</i> , 2003, 15, 451-459.	3.2	335
3	Quantification of bacterial adhesion forces using atomic force microscopy (AFM). <i>Journal of Microbiological Methods</i> , 2000, 40, 89-97.	0.7	227
4	Effects of toxic metals and chemicals on biofilm and biocorrosion. <i>Water Research</i> , 2002, 36, 4709-4716.	5.3	227
5	Platinum and platinum-ruthenium nanoparticles supported on ordered mesoporous carbon and their electrocatalytic performance for fuel cell reactions. <i>Electrochimica Acta</i> , 2005, 50, 3131-3141.	2.6	203
6	Enhanced Photocatalytic Activity in Anatase/TiO ₂ (B) Core-Shell Nanofiber. <i>Journal of Physical Chemistry C</i> , 2008, 112, 20539-20545.	1.5	181
7	Monte Carlo simulation of an ion-dipole mixture as a model of an electrical double layer. <i>Journal of Chemical Physics</i> , 1998, 109, 7362-7371.	1.2	140
8	Activity of Pd/C for hydrogen generation in aqueous formic acid solution. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 381-390.	3.8	134
9	Enzyme immobilization on amino-functionalized mesostructured cellular foam surfaces, characterization and catalytic properties. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2005, 33, 43-50.	1.8	124
10	Synthesis of titania-silica mixed oxide mesoporous materials, characterization and photocatalytic properties. <i>Applied Catalysis A: General</i> , 2005, 284, 193-198.	2.2	123
11	A parabolic equation with nonlocal boundary conditions arising from electrochemistry. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1992, 18, 317-331.	0.6	120
12	Monte Carlo study of the capacitance of the double layer in a model molten salt. <i>Journal of Chemical Physics</i> , 1999, 110, 5346-5350.	1.2	114
13	Metal-Organic Framework Threaded with Aminated Polymer Formed <i>in Situ</i> for Fast and Reversible Ion Exchange. <i>Journal of the American Chemical Society</i> , 2014, 136, 7209-7212.	6.6	107
14	Highly Thermal Stable and Highly Crystalline Anatase TiO ₂ for Photocatalysis. <i>Environmental Science & Technology</i> , 2009, 43, 5423-5428.	4.6	103
15	Electrolytic Generation of Ozone on Antimony- and Nickel-Doped Tin Oxide Electrode. <i>Journal of the Electrochemical Society</i> , 2005, 152, D197.	1.3	93
16	Reaction pathways derived from DFT for understanding catalytic decomposition of formic acid into hydrogen on noble metals. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 15956-15965.	3.8	91
17	Anaerobic Electrochemical Corrosion of Mild Steel in the Presence of Extracellular Polymeric Substances Produced by a Culture Enriched in Sulfate-Reducing Bacteria. <i>Environmental Science & Technology</i> , 2002, 36, 1720-1727.	4.6	89
18	Hierarchical NiCo ₂ O ₄ Micro- and Nanostructures with Tunable Morphologies as Anode Materials for Lithium- and Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 16194-16201.	4.0	85

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19	Preparation of colloidal microporous carbon spheres from furfuryl alcohol. <i>Carbon</i> , 2005, 43, 1709-1715.	5.4	84
20	Core-shell TiO ₂ /C nanofibers as supports for electrocatalytic and synergistic photoelectrocatalytic oxidation of methanol. <i>Journal of Materials Chemistry</i> , 2012, 22, 4025.	6.7	83
21	Microemulsion synthesis and electrocatalytic properties of platinum-cobalt nanoparticles. <i>Journal of Materials Chemistry</i> , 2002, 12, 1203-1206.	6.7	81
22	Low temperature anomalies in the properties of the electrochemical interface. <i>Chemical Physics Letters</i> , 1999, 308, 473-478.	1.2	78
23	Low activation energy dehydrogenation of aqueous formic acid on platinum-ruthenium-bismuth oxide at near ambient temperature and pressure. <i>Chemical Communications</i> , 2009, , 7333.	2.2	78
24	Nafion-polyfurfuryl alcohol nanocomposite membranes for direct methanol fuel cells. <i>Journal of Membrane Science</i> , 2005, 246, 95-101.	4.1	75
25	Structuring Porous Iron-Nitrogen-Doped Carbon in a Core/Shell Geometry for the Oxygen Reduction Reaction. <i>Advanced Energy Materials</i> , 2014, 4, 1400840.	10.2	73
26	Stability of Pt nanoparticles and enhanced photocatalytic performance in mesoporous Pt-(anatase/TiO ₂ (B)) nanoarchitecture. <i>Journal of Materials Chemistry</i> , 2009, 19, 7055.	6.7	72
27	Colloidal Solution Combustion Synthesis: Toward Mass Production of a Crystalline Uniform Mesoporous CeO ₂ Catalyst with Tunable Porosity. <i>Chemistry of Materials</i> , 2016, 28, 2768-2775.	3.2	65
28	Electrochemical capacitance and ionic transport in the mesoporous shell of a hierarchical porous core-shell carbon structure. <i>Journal of Materials Chemistry</i> , 2011, 21, 8880.	6.7	63
29	The synthesis of large mesopores alumina by microemulsion templating, their characterization and properties as catalyst support. <i>Materials Letters</i> , 2004, 58, 2872-2877.	1.3	61
30	Photoelectrochemistry of oxygen in rechargeable Li-O ₂ batteries. <i>Chemical Society Reviews</i> , 2022, 51, 1846-1860.	18.7	61
31	Simulation study of platinum adsorption on graphite using the Sutton-Chen potential. <i>Surface Science</i> , 1995, 328, 119-128.	0.8	56
32	Electrocatalytic properties of supported platinum-cobalt nanoparticles with uniform and controlled composition. <i>Journal of Electroanalytical Chemistry</i> , 2004, 573, 1-9.	1.9	56
33	Formic acid dehydrogenation over PtRuBiO _x /C catalyst for generation of CO-free hydrogen in a continuous-flow reactor. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 6372-6380.	3.8	55
34	Polystyrenesulfonate Threaded in MIL-101Cr(III): A Cationic Polyelectrolyte Synthesized Directly into a Metal-Organic Framework. <i>Chemistry of Materials</i> , 2015, 27, 3601-3608.	3.2	52
35	Optimizing electron spin resonance detection of hydroxyl radical in water. <i>Chemosphere</i> , 2003, 52, 1797-1805.	4.2	51
36	Microbiologically Induced Corrosion of 70Cu-30Ni Alloy in Anaerobic Seawater. <i>Journal of the Electrochemical Society</i> , 2004, 151, B434.	1.3	51

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37	Dual-Porosity Carbon Templated from Monosize Mesoporous Silica Nanoparticles. <i>Chemistry of Materials</i> , 2007, 19, 2786-2795.	3.2	51
38	A functionalized MIL-101(Cr) metal-organic framework for enhanced hydrogen release from ammonia borane at low temperature. <i>Chemical Communications</i> , 2013, 49, 10629.	2.2	50
39	Complex Impedance with Transmission Line Model and Complex Capacitance Analysis of Ion Transport and Accumulation in Hierarchical Core-Shell Porous Carbons. <i>Journal of the Electrochemical Society</i> , 2013, 160, H271-H278.	1.3	50
40	Preparation of Pt-Ru-Co trimetallic nanoparticles and their electrocatalytic properties. <i>Catalysis Communications</i> , 2004, 5, 749-753.	1.6	49
41	Partial oxidation of glucose by a Pt WO ₃ electrode. <i>Journal of Electroanalytical Chemistry</i> , 1997, 430, 147-153.	1.9	48
42	Structural and Transport Properties of an SPC/E Electrolyte in a Nanopore. <i>Journal of Physical Chemistry B</i> , 2004, 108, 18204-18213.	1.2	45
43	Recent Development of Aprotic Na ⁺ O ₂ Batteries. <i>Batteries and Supercaps</i> , 2019, 2, 725-742.	2.4	44
44	Application of atomic force microscopy in the study of microbiologically influenced corrosion. <i>Materials Characterization</i> , 2002, 48, 195-203.	1.9	43
45	Electrolytic Generation of Ozone on an Antimony-Doped Tin Dioxide Coated Electrode. <i>Electrochemical and Solid-State Letters</i> , 2004, 7, D4.	2.2	43
46	Scalable Template-Free Synthesis of Na ₂ Ti ₃ O ₇ /Na ₂ Ti ₆ O ₁₃ Nanorods with Composition Tunable for Synergistic Performance in Sodium-Ion Batteries. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 10065-10072.	1.8	43
47	Growth of SAPO-34 in polymer hydrogels through vapor-phase transport. <i>Microporous and Mesoporous Materials</i> , 2005, 85, 267-272.	2.2	41
48	The synthesis of Pt-modified titanium dioxide thin films by microemulsion templating, their characterization and visible-light photocatalytic properties. <i>Materials Chemistry and Physics</i> , 2006, 97, 384-389.	2.0	41
49	Growth of electrodeposited platinum nanocrystals studied by atomic force microscopy. <i>Applied Surface Science</i> , 1998, 136, 321-330.	3.1	40
50	Facile synthesis of iron-doped hollow urchin-like MnO ₂ for supercapacitors. <i>Journal of Materials Science</i> , 2017, 52, 4852-4865.	1.7	39
51	Molecular dynamics simulation of water confined in a nanopore of amorphous silica. <i>Molecular Simulation</i> , 2009, 35, 1215-1223.	0.9	38
52	Pair correlation functions for a hard sphere mixture in the colloidal limit. <i>Molecular Physics</i> , 1997, 91, 1137-1142.	0.8	37
53	Preparation and characterization of Pt-TiO ₂ -SiO ₂ mesoporous materials and visible-light photocatalytic performance. <i>Materials Letters</i> , 2007, 61, 2231-2234.	1.3	37
54	Electrochemical oxidation of glucose by electrode. <i>Journal of Electroanalytical Chemistry</i> , 1995, 386, 241-243.	1.9	36

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55	Molecular simulation of oxygen on supported platinum clusters. <i>Journal of Electroanalytical Chemistry</i> , 1998, 450, 225-231.	1.9	35
56	Electrocatalytic oxidation of formic acid by Pt/Co nanoparticles. <i>Catalysis Letters</i> , 2001, 71, 21-26.	1.4	35
57	Platinum nanoparticles spontaneously formed on HOPG. <i>Applied Surface Science</i> , 2001, 172, 159-166.	3.1	34
58	Preparation of Pt-Ru-Ni ternary nanoparticles by microemulsion and electrocatalytic activity for methanol oxidation. <i>Materials Research Bulletin</i> , 2007, 42, 327-333.	2.7	34
59	Use of in situ polymerized phenol-formaldehyde resin to modify a Nafion® membrane for the direct methanol fuel cell. <i>Journal of Power Sources</i> , 2007, 167, 309-314.	4.0	34
60	Microwave-assisted microemulsion synthesis of carbon supported Pt-WO ₃ nanoparticles as an electrocatalyst for methanol oxidation. <i>Electrochimica Acta</i> , 2012, 75, 262-272.	2.6	34
61	Monte Carlo data of dilute solutions of large spheres in binary hard sphere mixtures. <i>Molecular Physics</i> , 2000, 98, 619-624.	0.8	33
62	Electrochemical Generation of Ozone in a Membrane Electrode Assembly Cell with Convective Flow. <i>Journal of the Electrochemical Society</i> , 2009, 156, E75.	1.3	33
63	Combustion Synthesized Porous Bismuth/N-Doped Carbon Nanocomposite for Reversible Sodiation in a Sodium-Ion Battery. <i>ACS Applied Energy Materials</i> , 2020, 3, 565-572.	2.5	33
64	Atomic force microscopy of platinum nanoparticles prepared on highly oriented pyrolytic graphite. <i>Ultramicroscopy</i> , 1998, 75, 69-76.	0.8	32
65	Thermodynamics and structural properties of the dipolar Yukawa fluid. <i>Journal of Chemical Physics</i> , 1999, 111, 337-344.	1.2	32
66	Structure and Pressure of a Hard Sphere Fluid in a Wedge-Shaped Cell or Meniscus. <i>Langmuir</i> , 1999, 15, 4311-4313.	1.6	32
67	Nafion® polyfurfuryl alcohol nanocomposite membranes with low methanol permeation. <i>Chemical Communications</i> , 2004, , 728-729.	2.2	32
68	Monte Carlo and simple theoretical calculations for ion-dipole mixtures. <i>Molecular Physics</i> , 1989, 66, 299-316.	0.8	31
69	Single-crystalline and reactive facets exposed anatase TiO ₂ nanofibers with enhanced photocatalytic properties. <i>Journal of Materials Chemistry</i> , 2011, 21, 6718.	6.7	31
70	Highly Selective Transport of Alkali Metal Ions by Nanochannels of Polyelectrolyte Threaded MIL-53 Metal Organic Framework. <i>Nano Letters</i> , 2019, 19, 4990-4996.	4.5	31
71	The mean spherical approximation for a dipolar Yukawa fluid. <i>Journal of Chemical Physics</i> , 1999, 110, 7348-7353.	1.2	30
72	Diffusivity and Conductivity of a Solvent Primitive Model Electrolyte in a Nanopore by Equilibrium and Nonequilibrium Molecular Dynamics Simulations. <i>Journal of Physical Chemistry A</i> , 2001, 105, 9616-9623.	1.1	30

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73	Diffusivity and conductivity of a primitive model electrolyte in a nanopore. <i>Molecular Physics</i> , 2001, 99, 309-314.	0.8	30
74	Synthesis of ozone from air via a polymer-electrolyte-membrane cell with a doped tin oxide anode. <i>Green Chemistry</i> , 2006, 8, 568.	4.6	30
75	Hydrothermally synthesized Cu _x O as a catalyst for CO oxidation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3627-3632.	5.2	30
76	Equation of State for Nonpolar, Polar, Chain, and Associating Fluids Based on the Dipolar Yukawa Potential. <i>Industrial & Engineering Chemistry Research</i> , 2001, 40, 973-979.	1.8	29
77	Synthesis of Pt-Ru-Mo ternary metal nanoparticles by microemulsions, their characterization and electrocatalytic properties. <i>Journal of Materials Science</i> , 2004, 39, 5845-5848.	1.7	29
78	Three electrolyte high voltage acid-alkaline hybrid rechargeable battery. <i>Electrochimica Acta</i> , 2011, 56, 9420-9425.	2.6	28
79	Size-dependent mobility of platinum cluster on a graphite surface. <i>Molecular Simulation</i> , 2005, 31, 527-533.	0.9	26
80	Novel ice structures in carbon nanopores: pressure enhancement effect of confinement. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 9008.	1.3	26
81	Morphology of platinum clusters on graphite at different loadings. <i>Surface Science</i> , 1996, 365, 38-52.	0.8	25
82	Distribution of platinum and cobalt atoms in a bimetallic nanoparticle. <i>Chemical Physics Letters</i> , 2005, 408, 49-53.	1.2	25
83	Hydrogen battery using neutralization energy. <i>Nano Energy</i> , 2018, 53, 240-244.	8.2	25
84	Equation of state and correlation function contact values of a hard sphere mixture. <i>Molecular Physics</i> , 2000, 98, 1005-1010.	0.8	24
85	Incorporating organic polymer into silica walls: A novel strategy for synthesis of templated mesoporous silica with tunable pore structure. <i>Microporous and Mesoporous Materials</i> , 2005, 82, 183-189.	2.2	24
86	High Voltage Vanadium-Metal Hydride Rechargeable Semi-Flow Battery. <i>Journal of the Electrochemical Society</i> , 2013, 160, A1384-A1389.	1.3	24
87	Structure of Ice in Confinement: Water in Mesoporous Carbons. <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 4252-4260.	1.0	24
88	Effective pairwise potential for simulations of adsorbed platinum. <i>Molecular Physics</i> , 1995, 86, 939-949.	0.8	23
89	Comparison of different mixing rules for prediction of density and residual internal energy of binary and ternary Lennard-Jones mixtures. <i>Fluid Phase Equilibria</i> , 2001, 178, 87-95.	1.4	23
90	Effects of Shear and Charge on the Microphase Formation of P123 Polymer in the SBA-15 Synthesis Investigated by Mesoscale Simulations. <i>Langmuir</i> , 2009, 25, 2034-2045.	1.6	23

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91	Varying carbon structures templated from KIT-6 for optimum electrochemical capacitance. <i>Electrochimica Acta</i> , 2010, 55, 2817-2823.	2.6	22
92	Non-neutrality in a charged capillary. <i>Molecular Physics</i> , 1995, 86, 745-758.	0.8	21
93	Non-neutrality in a charged slit pore. <i>Chemical Physics Letters</i> , 1997, 275, 56-62.	1.2	21
94	Hard sphere mixtures near a hard wall. <i>Molecular Physics</i> , 1998, 95, 415-424.	0.8	21
95	Phase separation in fluid additive hard sphere mixtures?. <i>Molecular Physics</i> , 1998, 95, 131-135.	0.8	21
96	Simulation and approximate formulae for the radial distribution functions of highly asymmetric hard sphere mixtures. <i>Molecular Physics</i> , 2005, 103, 667-674.	0.8	21
97	Highly Crystalline Mesoporous TiO ₂ (B) Nanofibers. <i>Journal of Physical Chemistry C</i> , 2014, 118, 3049-3055.	1.5	21
98	Combustion synthesis of Cr ₂ O ₃ octahedra with a chromium-containing metal-organic framework as a sacrificial template. <i>CrystEngComm</i> , 2015, 17, 2620-2623.	1.3	21
99	Synthesis and characterization of amino-functionalized mesostructured cellular foams with large mesopores using microemulsion templating. <i>Scripta Materialia</i> , 2004, 51, 343-347.	2.6	20
100	Imparting UiO-66 with fast cation exchange property via sulfonating organic linkers for selective adsorption. <i>Separation and Purification Technology</i> , 2021, 260, 118219.	3.9	20
101	Determination of vapour-liquid equilibrium using cavity-biased grand canonical Monte Carlo method. <i>Molecular Physics</i> , 1997, 92, 1067-1072.	0.8	19
102	Protonated Emeraldine Polyaniline Threaded MIL-101 as a Conductive High Surface Area Nanoporous Electrode. <i>ACS Energy Letters</i> , 2021, 6, 3769-3779.	8.8	19
103	Influence of Cr ³⁺ on microbial cluster formation in biofilm and on steel corrosion. <i>Biotechnology Letters</i> , 2000, 22, 801-805.	1.1	18
104	Direct detection of cell surface interactive forces of sessile, fimbriated and non-fimbriated <i>Actinomyces</i> spp. using atomic force microscopy. <i>Archives of Oral Biology</i> , 2004, 49, 727-738.	0.8	18
105	Carbonization over PFA-protected dispersed platinum: an effective route to synthesize high performance mesoporous-carbon supported Pt electrocatalysts. <i>Journal of Materials Chemistry</i> , 2011, 21, 12139.	6.7	18
106	Three-electrolyte electrochemical energy storage systems using both anion- and cation-exchange membranes as separators. <i>Energy</i> , 2019, 167, 1011-1018.	4.5	18
107	Improved Monte Carlo simulations of the structure of ion-dipole mixtures. <i>Molecular Physics</i> , 1993, 80, 1021-1029.	0.8	17
108	Grand canonical Monte Carlo simulation of an electrolyte with a solvent primitive model. <i>Chemical Physics Letters</i> , 1999, 307, 419-424.	1.2	17

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109	Deviation from electroneutrality in cylindrical pores. <i>Chemical Physics Letters</i> , 1999, 307, 89-94.	1.2	17
110	Heterogeneous Catalytic Generation of Hydrogen from Formic Acid under Pressurized Aqueous Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 4861-4867.	1.8	17
111	Uniform dispersion of 1% PtRu nanoparticles in ordered mesoporous carbon for improved methanol oxidation. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13570.	1.3	17
112	Hierarchical macropore-mesoporous shell carbon dispersed with Li ₄ Ti ₅ O ₁₂ for excellent high rate sub-freezing Li-ion battery performance. <i>Carbon</i> , 2019, 145, 614-621.	5.4	17
113	Solute-solvent pair distribution functions in highly asymmetric additive hard sphere mixtures. <i>Journal of Chemical Physics</i> , 1998, 108, 9946-9947.	1.2	16
114	Comment on "Algebraic perturbation theory for polar fluids: A model for the dielectric constant". <i>Physical Review E</i> , 2000, 62, 8846-8850.	0.8	16
115	Ion Transport in Simple Nanopores. <i>Molecular Simulation</i> , 2004, 30, 81-87.	0.9	16
116	Investigations of High Voltage Vanadium-Metal Hydride Flow Battery toward kWh Scale Storage with 100 cm ² Electrodes. <i>Journal of the Electrochemical Society</i> , 2016, 163, A5180-A5187.	1.3	15
117	Scalable Synthesis of Three-Dimensional Meso/Macroporous NiO with Uniform Ultralarge Randomly Packed Mesopores and High Catalytic Activity for Soot Oxidation. <i>ACS Applied Nano Materials</i> , 2018, 1, 556-563.	2.4	15
118	The solvent-solute distribution function of binary hard sphere mixtures for dilute concentrations of the large sphere. <i>Molecular Physics</i> , 1999, 96, 1813-1816.	0.8	14
119	Morphology of electrodeposited WO ₃ studied by atomic force microscopy. <i>Journal of Materials Chemistry</i> , 2000, 10, 697-700.	6.7	14
120	Theoretical investigations of the vapour-liquid equilibrium and dielectric properties of dipolar Yukawa fluids in an external field. <i>Molecular Physics</i> , 2003, 101, 1819-1828.	0.8	14
121	Exploring Solvent Stability against Nucleophilic Attack by Solvated LiO ₂ ⁺ in an Aprotic Li-O ₂ Battery. <i>Journal of the Electrochemical Society</i> , 2017, 164, A284-A289.	1.3	14
122	Direct synthesis of anion exchange polymer threaded in a metal-organic framework through in situ polymerization of an ionic liquid. <i>Microporous and Mesoporous Materials</i> , 2018, 259, 255-263.	2.2	14
123	Non-equilibrium molecular dynamics simulation study of the frequency dependent conductivity of a primitive model electrolyte in a nanopore. <i>Molecular Physics</i> , 2002, 100, 1497-1505.	0.8	13
124	Insights into hydrogen generation from formic acid on PtRuBiOx in aqueous solution at room temperature. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 8720-8731.	3.8	13
125	Non-equilibrium molecular dynamics simulation of oxygen ion mobility in yttria stabilized zirconia. <i>Chemical Physics Letters</i> , 2004, 385, 202-207.	1.2	12
126	Electrocatalytic properties of supported platinum-cobalt nanoparticles with uniform and controlled composition. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 2004, 573, 1-9.	0.3	12

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127	Fabrication of porous polymer particles with high anion exchange capacity by amination reaction in aqueous medium. <i>Green Chemistry</i> , 2006, 8, 386.	4.6	12
128	High-voltage pH differential vanadium-hydrogen flow battery. <i>Materials Today Energy</i> , 2018, 10, 126-131.	2.5	12
129	The Dot and Line Method: A Long Range Correction to Coulomb Interaction in a Cylindrical Pore. <i>Molecular Simulation</i> , 2004, 30, 63-70.	0.9	11
130	Solution combustion synthesis using furfuryl alcohol as fuel and a combustible solvent. <i>Journal of Experimental Nanoscience</i> , 2015, 10, 466-475.	1.3	11
131	Structures and Energetics of Platinum-Cobalt Bimetallic Clusters. <i>Molecular Simulation</i> , 2004, 30, 679-690.	0.9	10
132	Platinum tungsten oxide (Pt-WO ₃) nanoparticles: their preparation in glycol and electrocatalytic properties. <i>Journal of Experimental Nanoscience</i> , 2006, 1, 113-123.	1.3	10
133	High-Voltage Dual Electrolyte Electrochemical Power Sources. <i>ECS Transactions</i> , 2010, 25, 213-219.	0.3	10
134	Use of Water-Compatible Polystyrene-Polyglycidol Resins for the Separation and Recovery of Dissolved Precious Metal Salts. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 4975-4979.	1.8	10
135	PRELIMINARY COMMUNICATION The fourth and fifth virial coefficients of an additive hard sphere mixture from the Henderson-Chan formulae. <i>Molecular Physics</i> , 1998, 94, 253-255.	0.8	9
136	Ordered amino-functionalized mesoporous silica thin films for high-density DNA probes. <i>Scripta Materialia</i> , 2006, 54, 1651-1654.	2.6	9
137	An Acid-Base Battery with Oxygen Electrodes: A Laboratory Demonstration of Electrochemical Power Sources. <i>Journal of Chemical Education</i> , 2019, 96, 1701-1706.	1.1	9
138	Durable ruthenium oxide/ceria catalyst with ultralarge mesopores for low-temperature CO oxidation. <i>Journal of Catalysis</i> , 2020, 382, 155-164.	3.1	9
139	Studies of Superoxide Degradation Kinetics and Electrolyte Management for a Reversible NaO ₂ Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 4317-4324.	3.2	9
140	Exact solutions of transport in a binary electrolyte. <i>Journal of Electroanalytical Chemistry</i> , 1992, 334, 13-23.	1.9	8
141	Molecular Dynamics Simulation of Platinum Particles Between Graphite Walls. <i>Molecular Simulation</i> , 1994, 13, 47-60.	0.9	8
142	Indium oxide cubes prepared by hydrothermal synthesis as catalysts for CO oxidation. <i>Materials Chemistry and Physics</i> , 2015, 153, 243-247.	2.0	8
143	A wedge-meniscus model of gas-diffusion electrodes. <i>Electrochimica Acta</i> , 1987, 32, 1227-1232.	2.6	7
144	Meniscus behavior and oxygen reduction in tapered pore gas diffusion electrodes. <i>Electrochimica Acta</i> , 1988, 33, 1767-1773.	2.6	7

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145	Fractional step algorithm for a model problem in electrochemistry. <i>Mathematics and Computers in Simulation</i> , 1992, 34, 101-112.	2.4	7
146	Theoretical Study on the Mechanism of Aqueous Synthesis of Formic Acid Catalyzed by $[Ru^{3+}]$ -EDTA Complex. <i>Inorganic Chemistry</i> , 2015, 54, 1314-1324.	1.9	7
147	A Study of Alkaline-Based H_2 - Br_2 and H_2 - I_2 Reversible Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2016, 163, F1471-F1479.	1.3	7
148	Poly(ethylene glycol) (PEG) in a Polyethylene (PE) Framework: A Simple Model for Simulation Studies of a Soluble Polymer in an Open Framework. <i>Langmuir</i> , 2017, 33, 11746-11753.	1.6	6
149	Advancing Lithium-Oxygen Battery Technology with an Iron-Nitrogen-Doped Mesoporous Core-Shell Carbon Cathode Loaded with Ruthenium(IV) Oxide Nanoparticles. <i>Energy Technology</i> , 2017, 5, 732-739.	1.8	6
150	Potential distribution in the solution interface of a scanning tunneling microscope. <i>Journal of Electroanalytical Chemistry</i> , 1992, 330, 395-406.	1.9	5
151	MOLECULAR SIMULATION OF PLATINUM CLUSTERS ON GRAPHITE. <i>Surface Review and Letters</i> , 1997, 04, 855-858.	0.5	5
152	In situ photoluminescence characterization of porous silicon formation. <i>Thin Solid Films</i> , 1999, 342, 142-147.	0.8	5
153	Preparation of amino-functionalized mesostructured cellular foams and application as hosts for large biomolecules. <i>Journal of Materials Science: Materials in Medicine</i> , 2007, 18, 877-882.	1.7	5
154	Nonlinear Poisson-Boltzmann equation in a model of a scanning tunneling microscope. <i>Numerical Methods for Partial Differential Equations</i> , 1994, 10, 689-702.	2.0	4
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