Jackie Y Ying

List of Publications by Year
in descending order

343 papers	35,992 citations	3731 89 h-index	3650 180 g-index
378 all docs	378 docs citations	378 times ranked	37797 citing authors

#	Article	IF	Citations
1	Protein-Directed Synthesis of Highly Fluorescent Gold Nanoclusters. Journal of the American Chemical Society, 2009, 131, 888-889.	13.7	2,298
2	Synthesis and Applications of Supramolecular-Templated Mesoporous Materials. Angewandte Chemie - International Edition, 1999, 38, 56-77.	13.8	1,941
3	Role of Particle Size in Nanocrystalline TiO2-Based Photocatalysts. Journal of Physical Chemistry B, 1998, 102, 10871-10878.	2.6	1,355
4	Synthesis of Hexagonally Packed Mesoporous TiO2 by a Modified Solâ€"Gel Method. Angewandte Chemie International Edition in English, 1995, 34, 2014-2017.	4.4	1,062
5	Solâ"'Gel Synthesis and Hydrothermal Processing of Anatase and Rutile Titania Nanocrystals. Chemistry of Materials, 1999, 11, 3113-3120.	6.7	811
6	Silica-Coated Nanocomposites of Magnetic Nanoparticles and Quantum Dots. Journal of the American Chemical Society, 2005, 127, 4990-4991.	13.7	805
7	Highly selective and ultrasensitive detection ofHg2+ based on fluorescence quenching of Au nanoclusters by Hg2+â€"Au+ interactions. Chemical Communications, 2010, 46, 961-963.	4.1	677
8	Microemulsion Templating of Siliceous Mesostructured Cellular Foams with Well-Defined Ultralarge Mesopores. Chemistry of Materials, 2000, 12, 686-696.	6.7	560
9	Functionalization of Inorganic Nanoparticles for Bioimaging Applications. Accounts of Chemical Research, 2011, 44, 925-935.	15.6	551
10	Conversion of Carbon Dioxide into Methanol with Silanes over Nâ€Heterocyclic Carbene Catalysts. Angewandte Chemie - International Edition, 2009, 48, 3322-3325.	13.8	546
11	Reverse microemulsion synthesis of nanostructured complex oxides for catalytic combustion. Nature, 2000, 403, 65-67.	27.8	517
12	Synthesis of Silica-Coated Semiconductor and Magnetic Quantum Dots and Their Use in the Imaging of Live Cells. Angewandte Chemie - International Edition, 2007, 46, 2448-2452.	13.8	476
13	Robust, Non-Cytotoxic, Silica-Coated CdSe Quantum Dots with Efficient Photoluminescence. Advanced Materials, 2005, 17, 1620-1625.	21.0	459
14	Synthesis of a Stable Hexagonally Packed Mesoporous Niobium Oxide Molecular Sieve Through a Novel Ligand-Assisted Templating Mechanism. Angewandte Chemie International Edition in English, 1996, 35, 426-430.	4.4	436
15	Hexagonal to Mesocellular Foam Phase Transition in Polymer-Templated Mesoporous Silicas. Langmuir, 2000, 16, 8291-8295.	3.5	404
16	Heterogeneous Heck Catalysis with Palladium-Grafted Molecular Sieves. Journal of the American Chemical Society, 1998, 120, 12289-12296.	13.7	390
17	Nanoparticle Architectures Templated by SiO2/Fe2O3Nanocomposites. Chemistry of Materials, 2006, 18, 614-619.	6.7	371
18	Efficient Catalytic System for the Selective Production of 5â€Hydroxymethylfurfural from Glucose and Fructose. Angewandte Chemie - International Edition, 2008, 47, 9345-9348.	13.8	371

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19	Nanostructured Catalysts for Organic Transformations. Accounts of Chemical Research, 2013, 46, 1825-1837.	15.6	357
20	The effect of matrix stiffness on mesenchymal stem cell differentiation in a 3D thixotropic gel. Biomaterials, 2010, 31, 385-391.	11.4	354
21	Synthesis and Applications of Magnetic Nanocomposite Catalysts. Chemistry of Materials, 2006, 18, 2459-2461.	6.7	350
22	Defect and transport properties of nanocrystalline CeO2âˆ’x. Applied Physics Letters, 1996, 69, 185-187.	3.3	346
23	A general phase-transfer protocol for metal ions and its application in nanocrystal synthesis. Nature Materials, 2009, 8, 683-689.	27.5	345
24	Self-assembled micellar nanocomplexes comprising green tea catechin derivatives and protein drugs for cancer therapy. Nature Nanotechnology, 2014, 9, 907-912.	31.5	333
25	Synthesis and Cell-Imaging Applications of Glutathione-Capped CdTe Quantum Dots. Advanced Materials, 2007, 19, 376-380.	21.0	322
26	The First N-Heterocyclic Carbene-Based Nickel Catalyst for Câˆ’S Coupling. Organic Letters, 2007, 9, 3495-3498.	4.6	319
27	Synthesis and Characterization of Hexagonally Packed Mesoporous Tantalum Oxide Molecular Sieves. Chemistry of Materials, 1996, 8, 874-881.	6.7	305
28	Mesostructured zeolite Yâ€”high hydrothermal stability and superior FCC catalytic performance. Catalysis Science and Technology, 2012, 2, 987.	4.1	301
29	Poly(3,4-ethylenedioxythiophene) (PEDOT) Nanobiointerfaces: Thin, Ultrasmooth, and Functionalized PEDOT Films with in Vitro and in Vivo Biocompatibility. Langmuir, 2008, 24, 8071-8077.	3.5	289
30	Synthesis of Water-Soluble and Functionalized Nanoparticles by Silica Coating. Chemistry of Materials, 2007, 19, 5074-5082.	6.7	285
31	Ligand-Assisted Liquid Crystal Templating in Mesoporous Niobium Oxide Molecular Sieves. Inorganic Chemistry, 1996, 35, 3126-3136.	4.0	281
32	Electronic transport properties of single-crystal bismuth nanowire arrays. Physical Review B, 2000, 61, 4850-4861.	3.2	277
33	Ultrasensitive Pb²⁺ Detection by Glutathione-Capped Quantum Dots. Analytical Chemistry, 2007, 79, 9452-9458.	6.5	268
34	Bifunctional Fe₃O₄â€“Ag Heterodimer Nanoparticles for Twoâ€Photon Fluorescence Imaging and Magnetic Manipulation. Advanced Materials, 2008, 20, 4403-4407.	21.0	258
35	Processing and Characterization of Single-Crystalline Ultrafine Bismuth Nanowires. Chemistry of Materials, 1999, 11, 1659-1665.	6.7	252
36	Generalized Fluorocarbon-Surfactant-Mediated Synthesis of Nanoparticles with Various Mesoporous Structures. Angewandte Chemie - International Edition, 2005, 44, 288-292.	13.8	244

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37	Nanostructure Processing of Hydroxyapatite-based Bioceramics. Nano Letters, 2001, 1, 149-153.	9.1	242
38	Aqueous Synthesis of Glutathione-Capped ZnSe and Zn1â€“xCdxSe Alloyed Quantum Dots. Advanced Materials, 2007, 19, 1475-1479.	21.0	241
39	Natural tri- to hexapeptides self-assemble in water to amyloid Î²-type fiber aggregates by unexpected Î±-helical intermediate structures. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1361-1366.	7.1	241
40	Phase transfer and its applications in nanotechnology. Chemical Society Reviews, 2011, 40, 1672-1696.	38.1	213
41	Bismuth quantum-wire arrays fabricated by a vacuum melting and pressure injection process. Journal of Materials Research, 1998, 13, 1745-1748.	2.6	204
42	Nanocomposites of Ag₂S and Noble Metals. Angewandte Chemie - International Edition, 2011, 50, 4637-4643.	13.8	200
43	Synthesis of microporous transition-metal-oxide molecular sieves by a supramolecular templating mechanism. Nature, 1997, 389, 704-706.	27.8	184
44	Reverse Microemulsion-Mediated Synthesis of Silica-Coated Gold and Silver Nanoparticles. Langmuir, 2008, 24, 5842-5848.	3.5	180
45	Photocatalytic decomposition of halogenated organics over nanocrystalline titania. Scripta Materialia, 1997, 9, 583-586.	0.5	178
46	Amphiphilic Templating of Mesostructured Zirconium Oxide. Chemistry of Materials, 1998, 10, 2067-2077.	6.7	177
47	Transport properties of Bi nanowire arrays. Applied Physics Letters, 2000, 76, 3944-3946.	3.3	177
48	Redox Activity of Nonstoichiometric Cerium Oxide-Based Nanocrystalline Catalysts. Journal of Catalysis, 1995, 157, 42-50.	6.2	170
49	Semimetalâ€“semiconductor transition in Bi1âˆ’xSbx alloy nanowires and their thermoelectric properties. Applied Physics Letters, 2002, 81, 2403-2405.	3.3	170
50	Magnetotransport investigations of ultrafine single-crystalline bismuth nanowire arrays. Applied Physics Letters, 1998, 73, 1589-1591.	3.3	162
51	Graphene-wrapped nickel sulfide nanoprisms with improved performance for Li-ion battery anodes and supercapacitors. Nano Energy, 2016, 26, 425-437.	16.0	160
52	A mesoporous poly-melamine-formaldehyde polymer as a solid sorbent for toxic metal removal. Energy and Environmental Science, 2013, 6, 3254.	30.8	154
53	Morphology and Lateral Strain Control of Pt Nanoparticles via Coreâ€“Shell Construction Using Alloy AgPd Core Toward Oxygen Reduction Reaction. ACS Nano, 2012, 6, 9373-9382.	14.6	150
54	Surface-Ligand-Dependent Cellular Interaction, Subcellular Localization, and Cytotoxicity of Polymer-Coated Quantum Dots. Chemistry of Materials, 2010, 22, 2239-2247.	6.7	149

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55	Stabilization and compressive strain effect of AuCu core on Pt shell for oxygen reduction reaction. Energy and Environmental Science, 2012, 5, 8976.	30.8	146
56	SnO2â˜'In2O3Nanocomposites as Semiconductor Gas Sensors for CO and NOxDetection. Chemistry of Materials, 2007, 19, 1009-1015.	6.7	142
57	Pressure-Driven Enzyme Entrapment in Siliceous Mesocellular Foam. Chemistry of Materials, 2006, 18, 643-649.	6.7	141
58	Porous collagen-apatite nanocomposite foams as bone regeneration scaffolds. Biomaterials, 2008, 29, 4300-4305.	11.4	140
59	Human embryonic stem cells differentiate into functional renal proximal tubularâ€"like cells. Kidney International, 2013, 83, 593-603.	5.2	138
60	Structural and Reactivity Properties of Nbî—¸MCM-41: Comparison with That of Highly Dispersed Nb2O5/SiO2 Catalysts. Journal of Catalysis, 2001, 203, 18-24.	6.2	135
61	Colorimetric Detection of Small Molecules in Complex Matrixes via Target-Mediated Growth of Aptamer-Functionalized Gold Nanoparticles. Analytical Chemistry, 2015, 87, 7644-7652.	6.5	134
62	Upper bound on the yield for oxidative coupling of methane. Journal of Catalysis, 2003, 218, 321-333.	6.2	133
63	A tri-continuous mesoporous material with a silica pore wall following a hexagonal minimal surface. Nature Chemistry, 2009, 1, 123-127.	13.6	131
64	Size Control, Shape Evolution, and Silica Coating of Near-Infrared-Emitting PbSe Quantum Dots. Chemistry of Materials, 2007, 19, 3112-3117.	6.7	130
65	Mesoporous materials. Current Opinion in Colloid and Interface Science, 1996, 1, 523-529.	7.4	129
66	Spherical Siliceous Mesocellular Foam Particles for High-Speed Size Exclusion Chromatography. Chemistry of Materials, 2007, 19, 2292-2298.	6.7	129
67	Strategies for developing sensitive and specific nanoparticle-based lateral flow assays as point-of-care diagnostic device. Nano Today, 2020, 30, 100831.	11.9	128
68	Making electrical contacts to nanowires with a thick oxide coating. Nanotechnology, 2002, 13, 653-658.	2.6	124
69	Hydrodynamic spinning of hydrogel fibers. Biomaterials, 2010, 31, 863-869.	11.4	124
70	Palladium-grafted mesoporous MCM-41 material as heterogeneous catalyst for Heck reactions. Chemical Communications, 1997, , 2215-2216.	4.1	123
71	Patterned prevascularised tissue constructs by assembly of polyelectrolyte hydrogel fibres. Nature Communications, 2013, 4, 2353.	12.8	119
72	Entropyâ€Driven Helical Mesostructure Formation with Achiral Cationic Surfactant Templates. Advanced Materials, 2007, 19, 2454-2459.	21.0	118

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73	Size quantization and interfacial effects on a novel Î³-Fe2O3/SiO2 magnetic nanocomposite via sol-gel matrix-mediated synthesis. Journal of Applied Physics, 1997, 81, 6892-6900.	2.5	117
74	Cell immobilization in gelatinâ€"hydroxyphenylpropionic acid hydrogel fibers. Biomaterials, 2009, 30, 3523-3531.	11.4	117
75	Palladium Nanoclusters Supported on Propylureaâ€Modified Siliceous Mesocellular Foam for Coupling and Hydrogenation Reactions. Chemistry - A European Journal, 2008, 14, 3118-3125.	3.3	116
76	Zwitterionic polymers and hydrogels for antibiofouling applications in implantable devices. Materials Today, 2020, 38, 84-98.	14.2	113
77	Generalized Synthesis of Metal Oxide Nanosheets and Their Application as Liâ€Ion Battery Anodes. Advanced Materials, 2017, 29, 1701427.	21.0	110
78	A thixotropic nanocomposite gel for three-dimensional cell culture. Nature Nanotechnology, 2008, 3, 671-675.	31.5	108
79	Organocatalytic Synthesis of N-Phenylisoxazolidin-5-ones and a One-Pot Synthesis of Î²-Amino Acid Esters. Organic Letters, 2008, 10, 953-956.	4.6	108
80	Synthesis and Properties of Î³-Fe2O3Nanoclusters within Mesoporous Aluminosilicate Matrices. Journal of Physical Chemistry B, 2001, 105, 7414-7423.	2.6	105
81	Enantioselective Catalysis over Chiral Imidazolidin-4-one Immobilized on Siliceous and Polymer-Coated Mesocellular Foams. Advanced Synthesis and Catalysis, 2006, 348, 2027-2032.	4.3	105
82	Nanomaterials for in situ cell delivery and tissue regenerationâ˜†. Advanced Drug Delivery Reviews, 2010, 62, 731-740.	13.7	103
83	Ultrasmall natural peptides self-assemble to strong temperature-resistant helical fibers in scaffolds suitable for tissue engineering. Nano Today, 2011, 6, 232-239.	11.9	102
84	N-Heterocyclic Carbene (NHC)-Catalyzed Direct Amidation of Aldehydes with Nitroso Compounds. Organic Letters, 2008, 10, 2333-2336.	4.6	101
85	Rational Exploration of Nâ€Heterocyclic Carbene (NHC) Palladacycle Diversity: A Highly Active and Versatile Precatalyst for Suzukiâ€"Miyaura Coupling Reactions of Deactivated Aryl and Alkyl Substrates. Chemistry - A European Journal, 2010, 16, 4010-4017.	3.3	100
86	Synthesis of Carbohydrate-Conjugated Nanoparticles and Quantum Dots. Langmuir, 2008, 24, 6215-6219.	3.5	97
87	Comparison of Circulating Tumour Cells and Circulating Cell-Free Epstein-Barr Virus DNA in Patients with Nasopharyngeal Carcinoma Undergoing Radiotherapy. Scientific Reports, 2016, 6, 13.	3.3	97
88	Tumor-derived circulating endothelial cell clusters in colorectal cancer. Science Translational Medicine, 2016, 8, 345ra89.	12.4	92
89	Structural Evolution of Alkoxide Silica Gels to Glass: Effect of Catalyst pH. Journal of the American Ceramic Society, 1993, 76, 2571-2582.	3.8	91
90	Room-temperature synthesis of nanocrystalline Ag2S and its nanocomposites with gold. Chemical Communications, 2009, , 3187.	4.1	90

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91	Carbon Dioxide Mediated Stereoselective Copper-Catalyzed Reductive Coupling of Alkynes and Thiols. Organic Letters, 2012, 14, 1780-1783.	4.6	86
92	Main-Chain Organic Frameworks with Advanced Catalytic Functionalities. ACS Catalysis, 2015, 5, 2681-2691.	11.2	86
93	XPS investigation of surface oxidation and reduction in nanocrystalline CexLa1 âˆ’xO2 âˆ’y. Surface and Interface Analysis, 1995, 23, 219-226.	1.8	83
94	Instant Room-Temperature Gelation of Crude Oil by Chiral Organogelators. Chemistry of Materials, 2016, 28, 4001-4008.	6.7	83
95	Controlled photostability of luminescent nanocrystalline ZnO solution for selective detection of aldehydes. Chemical Communications, 2007, , 1406.	4.1	81
96	Practical One-Pot, Three-Component Synthesis of N-Heterocyclic Carbene (NHC) Ligated Palladacycles Derived fromN,N-Dimethylbenzylamine. Organometallics, 2009, 28, 289-299.	2.3	81
97	Highly potent antimicrobial polyionenes with rapid killing kinetics, skin biocompatibility and inÂvivo bactericidal activity. Biomaterials, 2017, 127, 36-48.	11.4	81
98	Ultrasensitive Electrochemical DNA Biosensors Based on the Detection of a Highly Characteristic Solidâ€State Process. Small, 2009, 5, 1414-1417.	10.0	80
99	Diffusion of Gold from the Inner Core to the Surface of Ag2S Nanocrystals. Journal of the American Chemical Society, 2010, 132, 2114-2115.	13.7	80
100	Supramolecular high-aspect ratio assemblies with strong antifungal activity. Nature Communications, 2013, 4, 2861.	12.8	79
101	Mesoporous poly-melamine-formaldehyde (mPMF) â€“ a highly efficient catalyst for chemoselective acetalization of aldehydes. Green Chemistry, 2013, 15, 1127.	9.0	78
102	A DNA biosensor based on the detection of doxorubicin-conjugated Ag nanoparticle labels using solid-state voltammetry. Biosensors and Bioelectronics, 2009, 25, 282-287.	10.1	77
103	Mesoporous Poly(Melamineâ€“Formaldehyde) Solid Sorbent for Carbon Dioxide Capture. ChemSusChem, 2013, 6, 1186-1190.	6.8	77
104	Hydrosilylation of Ketone and Imine over Polyâ€Nâ€Heterocyclic Carbene Particles. Advanced Synthesis and Catalysis, 2009, 351, 1390-1394.	4.3	76
105	Colloidal poly-imidazolium salts and derivatives. Nano Today, 2009, 4, 13-20.	11.9	76
106	Design and synthesis of nanostructured catalysts. Chemical Engineering Science, 2006, 61, 1540-1548.	3.8	75
107	Practical Heckâˆ’Mizoroki Coupling Protocol for Challenging Substrates Mediated by an N-Heterocyclic Carbene-Ligated Palladacycle. Organic Letters, 2008, 10, 3949-3952.	4.6	75
108	Nanostructured palladiumâ€“iron membranes for hydrogen separation and membrane hydrogenation reactions. Journal of Membrane Science, 2002, 203, 29-42.	8.2	74

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109	Nanocrystalline materials in catalysis and electrocatalysis: Structure tailoring and surface reactivity. Scripta Materialia, 1996, 7, 245-258.	0.5	73
110	Small-Angle Neutron Scattering and Theoretical Investigation of Poly(ethylene oxide)â˜Poly(propylene) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.5	73
111	Mesoporous silica-supported catalysts for metathesis: application to a circulating flow reactor. Chemical Communications, 2010, 46, 806-808.	4.1	72
112	Extracellular Matrix-Mediated Differentiation of Human Embryonic Stem Cells: Differentiation to Insulin-Secreting Beta Cells. Tissue Engineering - Part A, 2014, 20, 424-433.	3.1	72
113	Three-dimensional microstructured tissue scaffolds fabricated by two-photon laser scanning photolithography. Biomaterials, 2010, 31, 7648-7652.	11.4	71
114	The impact of extracellular matrix coatings on the performance of human renal cells applied in bioartificial kidneys. Biomaterials, 2009, 30, 2899-2911.	11.4	70
115	Mechanistic Insights into the Reduction of Carbon Dioxide with Silanes over Nâ€Heterocyclic Carbene Catalysts. ChemCatChem, 2013, 5, 1490-1496.	3.7	70
116	Crystal Structure of an Ammonium Nickel Molybdate Prepared by Chemical Precipitation. Inorganic Chemistry, 1996, 35, 4191-4197.	4.0	68
117	Reverse Microemulsion-Mediated Synthesis and Structural Evolution of Barium Hexaaluminate Nanoparticles. Langmuir, 2000, 16, 3042-3049.	3.5	68
118	Supramolecular-Templated Synthesis of Nanoporous Zirconiaâ˜Silica Catalysts. Chemistry of Materials, 2002, 14, 1961-1973.	6.7	68
119	Microporous Polyisocyanurate and Its Application in Heterogeneous Catalysis. Chemistry - A European Journal, 2009, 15, 1077-1081.	3.3	68
120	Highly Reactive Se Precursor for the Phosphine-Free Synthesis of Metal Selenide Nanocrystals. Chemistry of Materials, 2010, 22, 5672-5677.	6.7	68
121	Synthesis and characterization of phosphated mesoporous zirconium oxide. Scripta Materialia, 1997, 9, 165-168.	0.5	67
122	Carrier-Enhanced Anticancer Efficacy of Sunitinib-Loaded Green Tea-Based Micellar Nanocomplex beyond Tumor-Targeted Delivery. ACS Nano, 2019, 13, 7591-7602.	14.6	67
123	A stacking flow immunoassay for the detection of dengue-specific immunoglobulins in salivary fluid. Lab on A Chip, 2015, 15, 1465-1471.	6.0	66
124	Acid-Resistant and Physiological pH-Responsive DNA Hydrogel Composed of A-Motif and i-Motif toward Oral Insulin Delivery. Journal of the American Chemical Society, 2022, 144, 5461-5470.	13.7	66
125	Nanostructured palladium membrane synthesis by magnetron sputtering. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1995, 204, 140-145.	5.6	65
126	Supramolecular Templating of Thermally Stable Crystalline Mesoporous Metal Oxides Using Nanoparticulate Precursors. Nano Letters, 2001, 1, 637-642.	9.1	65

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127	Synthesis of Functionalized Au Nanoparticles for Protein Detection. Advanced Materials, 2008, 20, 430-434.	21.0	65
128	Functionalization of Gold Nanospheres and Nanorods by Chitosan Oligosaccharide Derivatives. Advanced Materials, 2008, 20, 2068-2073.	21.0	65
129	Imidazolium Salts: A Mild Reducing and Antioxidative Reagent. Journal of the American Chemical Society, 2008, 130, 12586-12587.	13.7	65
130	Catalytic redox activity and electrical conductivity of nanocrystalline non-stoichiometric cerium oxide. Sensors and Actuators B: Chemical, 1996, 31, 111-114.	7.8	64
131	Synthese von stabilen, hexagonal gepackten, mesoporÃ¶sen Molekularsieben aus Nioboxid mittels eines neuartigen, Ligandâ€unterstÂ¼tzten Templatmechanismus. Angewandte Chemie, 1996, 108, 461-464.	2.0	64
132	The Effect of Zirconia Reinforcing Agents on the Microstructure and Mechanical Properties of Hydroxyapatite-Based Nanocomposites. Journal of the American Ceramic Society, 2005, 88, 3374-3379.	3.8	64
133	Surface Coating Directed Cellular Delivery of TAT-Functionalized Quantum Dots. Bioconjugate Chemistry, 2009, 20, 1752-1758.	3.6	64
134	Novel Î³-Fe2O3/SiO2 magnetic nanocomposites via sol-gel matrix-mediated synthesis. Scripta Materialia, 1997, 9, 185-188.	0.5	63
135	Mechanistic study of NO reduction with methane over Co2+ modified ZSM-5 catalysts. Catalysis Today, 1997, 33, 251-261.	4.4	63
136	The development of a nanocrystalline apatite reinforced crosslinked hyaluronic acidâ€“tyramine composite as an injectable bone cement. Biomaterials, 2009, 30, 822-828.	11.4	63
137	The performance of primary human renal cells in hollow fiber bioreactors for bioartificial kidneys. Biomaterials, 2011, 32, 8806-8815.	11.4	63
138	Pt nanoparticle label-mediated deposition of Pt catalyst for ultrasensitive electrochemical immunosensors. Biosensors and Bioelectronics, 2010, 26, 418-423.	10.1	62
139	Cï£¿C Bond Formation via Cï£¿H Activation and Cï£¿N Bond Formation via Oxidative Amination Catalyzed by Palladiumâ€•Polyoxometalate Nanomaterials Using Dioxygen as the Terminal Oxidant. Advanced Synthesis and Catalysis, 2011, 353, 2988-2998.	4.3	62
140	Porous MnO/Mn3O4 nanocomposites for electrochemical energy storage. Nano Energy, 2015, 13, 702-708.	16.0	62
141	Interparticle interactions in magnetic core/shell nanoarchitectures. Physical Review B, 2009, 80, .	3.2	61
142	N-heterocycle carbene (NHC)-ligated cyclopalladated N,N-dimethylbenzylamine: a highly active, practical and versatile catalyst for the Heckâ€“Mizoroki reaction. Organic and Biomolecular Chemistry, 2009, 7, 2110.	2.8	61
143	Mechanical synthesis of nanocrystalline Î±-Al2O3 seeds for enhanced transformation kinetics. Scripta Materialia, 1997, 9, 161-164.	0.5	59
144	Research Needs Assessment on Nanostructured Catalysts. , 1997, 1, 219-238.		59

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145	Reversible phase transfer of quantum dots and metal nanoparticles. Chemical Communications, 2010, 46, 3179.	4.1	59
146	Fe_3O_4-Ag nanocomposites for optical limiting:â€broad temporal response and low threshold. Optics Express, 2010, 18, 6183.	3.4	59
147	Characterization of membrane materials and membrane coatings for bioreactor units of bioartificial kidneys. Biomaterials, 2011, 32, 1465-1476.	11.4	59
148	Nonâ€invasive sensitive detection of KRAS and BRAF mutation in circulating tumor cells of colorectal cancer patients. Molecular Oncology, 2015, 9, 850-860.	4.6	59
149	THE SELECTIVE CATALYTIC REDUCTION OF NITRIC OXIDE WITH METHANE OVER NONZEOLITIC CATALYSTS. Catalysis Reviews - Science and Engineering, 2001, 43, 1-29.	12.9	57
150	Three-photon absorption in water-soluble ZnS nanocrystals. Applied Physics Letters, 2006, 88, 181114.	3.3	57
151	Facile Synthesis of Fe₂O₃ Nanocrystals without Fe(CO)₅ Precursor and Oneâ€Pot Synthesis of Highly Fluorescent Fe₂O₃â€"CdSe Nanocomposites. Advanced Materials, 2009, 21, 869-873.	21.0	57
152	Asymmetric transfer hydrogenation over Ruâ€"TsDPEN catalysts supported on siliceous mesocellular foam. Chemical Communications, 2007, , 1825-1827.	4.1	56
153	A microarray platform for detecting disease-specific circulating miRNA in human serum. Biosensors and Bioelectronics, 2016, 75, 238-246.	10.1	56
154	Semiconductorâ€Gold Nanocomposite Catalysts for the Efficient Threeâ€Component Coupling of Aldehyde, Amine and Alkyne in Water. Advanced Synthesis and Catalysis, 2009, 351, 2887-2896.	4.3	55
155	Palladiumâ€Based Nanocatalyst for Oneâ€Pot Synthesis of Polysubstituted Quinolines. ChemCatChem, 2013, 5, 277-283.	3.7	55
156	ZIF nano-dagger coated gauze for antibiotic-free wound dressing. Chemical Communications, 2019, 55, 699-702.	4.1	55
157	Redox Properties of Nanocrystalline Cu-Doped Cerium Oxide Studied by Isothermal Gravimetric Analysis and X-ray Photoelectron Spectroscopy. Journal of Physical Chemistry B, 1999, 103, 8858-8863.	2.6	54
158	Nanostructural tailoring: Opportunities for molecular engineering in catalysis. AICHE Journal, 2000, 46, 1902-1906.	3.6	54
159	Multicomponent Fibers by Multiâ€interfacial Polyelectrolyte Complexation. Advanced Healthcare Materials, 2012, 1, 101-105.	7.6	53
160	Catalytic properties of nanostructured metal oxides synthesized by inert gas condensation. Scripta Materialia, 1997, 9, 423-432.	0.5	52
161	From Glutathione Capping to a Crosslinked, Phytochelatinâ€Like Coating of Quantum Dots. Advanced Materials, 2008, 20, 3410-3415.	21.0	52
162	The selective catalytic reduction of nitric oxide with methane over scandium oxide, yttrium oxide and lanthanum oxide. Applied Catalysis B: Environmental, 1998, 18, 71-77.	20.2	50

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163	Siliceous Mesocellular Foamâ€Supported Aza(bisoxazoline)â€Copper Catalysts. Advanced Synthesis and Catalysis, 2008, 350, 1295-1308.	4.3	50
164	The solid-state Ag/AgCl process as a highly sensitive detection mechanism for an electrochemical immunosensor. Chemical Communications, 2009, , 6231.	4.1	50
165	Energetics and structure of sol-gel silicas. Journal of Non-Crystalline Solids, 1990, 124, 101-111.	3.1	49
166	Transport properties of Bi1âˆ’xSbx alloy nanowires synthesized by pressure injection. Applied Physics Letters, 2001, 79, 677-679.	3.3	49
167	Short imidazolium chains effectively clear fungal biofilm in keratitis treatment. Biomaterials, 2013, 34, 1018-1023.	11.4	49
168	The use of a polyelectrolyte fibrous scaffold to deliver differentiated hMSCs to the liver. Biomaterials, 2010, 31, 48-57.	11.4	48
169	Synthesis and characterization of mesoporous niobium-doped silica molecular sieves. AICHE Journal, 1997, 43, 2793-2801.	3.6	47
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