

# Jackie Y Ying

## List of Publications by Year in descending order

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343  
papers

35,992  
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3721

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378  
all docs

378  
docs citations

378  
times ranked

37797  
citing authors

#	ARTICLE	IF	CITATIONS
1	Protein-Directed Synthesis of Highly Fluorescent Gold Nanoclusters. <i>Journal of the American Chemical Society</i> , 2009, 131, 888-889.	6.6	2,298
2	Synthesis and Applications of Supramolecular-Templated Mesoporous Materials. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 56-77.	7.2	1,941
3	Role of Particle Size in Nanocrystalline TiO <sub>2</sub> -Based Photocatalysts. <i>Journal of Physical Chemistry B</i> , 1998, 102, 10871-10878.	1.2	1,355
4	Synthesis of Hexagonally Packed Mesoporous TiO <sub>2</sub> by a Modified Sol-Gel Method. <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 2014-2017.	4.4	1,062
5	Sol-Gel Synthesis and Hydrothermal Processing of Anatase and Rutile Titania Nanocrystals. <i>Chemistry of Materials</i> , 1999, 11, 3113-3120.	3.2	811
6	Silica-Coated Nanocomposites of Magnetic Nanoparticles and Quantum Dots. <i>Journal of the American Chemical Society</i> , 2005, 127, 4990-4991.	6.6	805
7	Highly selective and ultrasensitive detection of Hg <sup>2+</sup> based on fluorescence quenching of Au nanoclusters by Hg <sup>2+</sup> -Au <sup>+</sup> interactions. <i>Chemical Communications</i> , 2010, 46, 961-963.	2.2	677
8	Microemulsion Templating of Siliceous Mesostructured Cellular Foams with Well-Defined Ultralarge Mesopores. <i>Chemistry of Materials</i> , 2000, 12, 686-696.	3.2	560
9	Functionalization of Inorganic Nanoparticles for Bioimaging Applications. <i>Accounts of Chemical Research</i> , 2011, 44, 925-935.	7.6	551
10	Conversion of Carbon Dioxide into Methanol with Silanes over N-Heterocyclic Carbene Catalysts. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 3322-3325.	7.2	546
11	Reverse microemulsion synthesis of nanostructured complex oxides for catalytic combustion. <i>Nature</i> , 2000, 403, 65-67.	13.7	517
12	Synthesis of Silica-Coated Semiconductor and Magnetic Quantum Dots and Their Use in the Imaging of Live Cells. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2448-2452.	7.2	476
13	Robust, Non-Cytotoxic, Silica-Coated CdSe Quantum Dots with Efficient Photoluminescence. <i>Advanced Materials</i> , 2005, 17, 1620-1625.	11.1	459
14	Synthesis of a Stable Hexagonally Packed Mesoporous Niobium Oxide Molecular Sieve Through a Novel Ligand-Assisted Templating Mechanism. <i>Angewandte Chemie International Edition in English</i> , 1996, 35, 426-430.	4.4	436
15	Hexagonal to Mesocellular Foam Phase Transition in Polymer-Templated Mesoporous Silicas. <i>Langmuir</i> , 2000, 16, 8291-8295.	1.6	404
16	Heterogeneous Heck Catalysis with Palladium-Grafted Molecular Sieves. <i>Journal of the American Chemical Society</i> , 1998, 120, 12289-12296.	6.6	390
17	Nanoparticle Architectures Templated by SiO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> Nanocomposites. <i>Chemistry of Materials</i> , 2006, 18, 614-619.	3.2	371
18	Efficient Catalytic System for the Selective Production of 5-Hydroxymethylfurfural from Glucose and Fructose. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 9345-9348.	7.2	371

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19	Nanostructured Catalysts for Organic Transformations. <i>Accounts of Chemical Research</i> , 2013, 46, 1825-1837.	7.6	357
20	The effect of matrix stiffness on mesenchymal stem cell differentiation in a 3D thixotropic gel. <i>Biomaterials</i> , 2010, 31, 385-391.	5.7	354
21	Synthesis and Applications of Magnetic Nanocomposite Catalysts. <i>Chemistry of Materials</i> , 2006, 18, 2459-2461.	3.2	350
22	Defect and transport properties of nanocrystalline CeO <sub>2</sub> x. <i>Applied Physics Letters</i> , 1996, 69, 185-187.	1.5	346
23	A general phase-transfer protocol for metal ions and its application in nanocrystal synthesis. <i>Nature Materials</i> , 2009, 8, 683-689.	13.3	345
24	Self-assembled micellar nanocomplexes comprising green tea catechin derivatives and protein drugs for cancer therapy. <i>Nature Nanotechnology</i> , 2014, 9, 907-912.	15.6	333
25	Synthesis and Cell-Imaging Applications of Glutathione-Capped CdTe Quantum Dots. <i>Advanced Materials</i> , 2007, 19, 376-380.	11.1	322
26	The First N-Heterocyclic Carbene-Based Nickel Catalyst for C-S Coupling. <i>Organic Letters</i> , 2007, 9, 3495-3498.	2.4	319
27	Synthesis and Characterization of Hexagonally Packed Mesoporous Tantalum Oxide Molecular Sieves. <i>Chemistry of Materials</i> , 1996, 8, 874-881.	3.2	305
28	Mesostructured zeolite Y high hydrothermal stability and superior FCC catalytic performance. <i>Catalysis Science and Technology</i> , 2012, 2, 987.	2.1	301
29	Poly(3,4-ethylenedioxythiophene) (PEDOT) Nanobiointerfaces: Thin, Ultrasoother, and Functionalized PEDOT Films with in Vitro and in Vivo Biocompatibility. <i>Langmuir</i> , 2008, 24, 8071-8077.	1.6	289
30	Synthesis of Water-Soluble and Functionalized Nanoparticles by Silica Coating. <i>Chemistry of Materials</i> , 2007, 19, 5074-5082.	3.2	285
31	Ligand-Assisted Liquid Crystal Templating in Mesoporous Niobium Oxide Molecular Sieves. <i>Inorganic Chemistry</i> , 1996, 35, 3126-3136.	1.9	281
32	Electronic transport properties of single-crystal bismuth nanowire arrays. <i>Physical Review B</i> , 2000, 61, 4850-4861.	1.1	277
33	Ultrasensitive Pb <sup>2+</sup> Detection by Glutathione-Capped Quantum Dots. <i>Analytical Chemistry</i> , 2007, 79, 9452-9458.	3.2	268
34	Bifunctional Fe <sub>3</sub> O <sub>4</sub> -Ag Heterodimer Nanoparticles for Two-Photon Fluorescence Imaging and Magnetic Manipulation. <i>Advanced Materials</i> , 2008, 20, 4403-4407.	11.1	258
35	Processing and Characterization of Single-Crystalline Ultrafine Bismuth Nanowires. <i>Chemistry of Materials</i> , 1999, 11, 1659-1665.	3.2	252
36	Generalized Fluorocarbon-Surfactant-Mediated Synthesis of Nanoparticles with Various Mesoporous Structures. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 288-292.	7.2	244

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37	Nanostructure Processing of Hydroxyapatite-based Bioceramics. Nano Letters, 2001, 1, 149-153.	4.5	242
38	Aqueous Synthesis of Glutathione-Capped ZnSe and Zn <sub>1-x</sub> Cd <sub>x</sub> Se Alloyed Quantum Dots. Advanced Materials, 2007, 19, 1475-1479.	11.1	241
39	Natural tri- to hexapeptides self-assemble in water to amyloid $\beta$ -type fiber aggregates by unexpected $\beta$ -helical intermediate structures. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1361-1366.	3.3	241
40	Phase transfer and its applications in nanotechnology. Chemical Society Reviews, 2011, 40, 1672-1696.	18.7	213
41	Bismuth quantum-wire arrays fabricated by a vacuum melting and pressure injection process. Journal of Materials Research, 1998, 13, 1745-1748.	1.2	204
42	Nanocomposites of Ag <sub>2</sub> S and Noble Metals. Angewandte Chemie - International Edition, 2011, 50, 4637-4643.	7.2	200
43	Synthesis of microporous transition-metal-oxide molecular sieves by a supramolecular templating mechanism. Nature, 1997, 389, 704-706.	13.7	184
44	Reverse Microemulsion-Mediated Synthesis of Silica-Coated Gold and Silver Nanoparticles. Langmuir, 2008, 24, 5842-5848.	1.6	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.	3.2	177
47	Transport properties of Bi nanowire arrays. Applied Physics Letters, 2000, 76, 3944-3946.	1.5	177
48	Redox Activity of Nonstoichiometric Cerium Oxide-Based Nanocrystalline Catalysts. Journal of Catalysis, 1995, 157, 42-50.	3.1	170
49	Semimetal-semiconductor transition in Bi <sub>1-x</sub> Sb <sub>x</sub> alloy nanowires and their thermoelectric properties. Applied Physics Letters, 2002, 81, 2403-2405.	1.5	170
50	Magnetotransport investigations of ultrafine single-crystalline bismuth nanowire arrays. Applied Physics Letters, 1998, 73, 1589-1591.	1.5	162
51	Graphene-wrapped nickel sulfide nanoprisms with improved performance for Li-ion battery anodes and supercapacitors. Nano Energy, 2016, 26, 425-437.	8.2	160
52	A mesoporous poly-melamine-formaldehyde polymer as a solid sorbent for toxic metal removal. Energy and Environmental Science, 2013, 6, 3254.	15.6	154
53	Morphology and Lateral Strain Control of Pt Nanoparticles <i>via</i> Core-Shell Construction Using Alloy AgPd Core Toward Oxygen Reduction Reaction. ACS Nano, 2012, 6, 9373-9382.	7.3	150
54	Surface-Ligand-Dependent Cellular Interaction, Subcellular Localization, and Cytotoxicity of Polymer-Coated Quantum Dots. Chemistry of Materials, 2010, 22, 2239-2247.	3.2	149

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55	Stabilization and compressive strain effect of AuCu core on Pt shell for oxygen reduction reaction. <i>Energy and Environmental Science</i> , 2012, 5, 8976.	15.6	146
56	SnO <sub>2</sub> /In <sub>2</sub> O <sub>3</sub> Nanocomposites as Semiconductor Gas Sensors for CO and NO <sub>x</sub> Detection. <i>Chemistry of Materials</i> , 2007, 19, 1009-1015.	3.2	142
57	Pressure-Driven Enzyme Entrapment in Siliceous Mesocellular Foam. <i>Chemistry of Materials</i> , 2006, 18, 643-649.	3.2	141
58	Porous collagen-apatite nanocomposite foams as bone regeneration scaffolds. <i>Biomaterials</i> , 2008, 29, 4300-4305.	5.7	140
59	Human embryonic stem cells differentiate into functional renal proximal tubular-like cells. <i>Kidney International</i> , 2013, 83, 593-603.	2.6	138
60	Structural and Reactivity Properties of Nb-MCM-41: Comparison with That of Highly Dispersed Nb <sub>2</sub> O <sub>5</sub> /SiO <sub>2</sub> Catalysts. <i>Journal of Catalysis</i> , 2001, 203, 18-24.	3.1	135
61	Colorimetric Detection of Small Molecules in Complex Matrixes via Target-Mediated Growth of Aptamer-Functionalized Gold Nanoparticles. <i>Analytical Chemistry</i> , 2015, 87, 7644-7652.	3.2	134
62	Upper bound on the yield for oxidative coupling of methane. <i>Journal of Catalysis</i> , 2003, 218, 321-333.	3.1	133
63	A tri-continuous mesoporous material with a silica pore wall following a hexagonal minimal surface. <i>Nature Chemistry</i> , 2009, 1, 123-127.	6.6	131
64	Size Control, Shape Evolution, and Silica Coating of Near-Infrared-Emitting PbSe Quantum Dots. <i>Chemistry of Materials</i> , 2007, 19, 3112-3117.	3.2	130
65	Mesoporous materials. <i>Current Opinion in Colloid and Interface Science</i> , 1996, 1, 523-529.	3.4	129
66	Spherical Siliceous Mesocellular Foam Particles for High-Speed Size Exclusion Chromatography. <i>Chemistry of Materials</i> , 2007, 19, 2292-2298.	3.2	129
67	Strategies for developing sensitive and specific nanoparticle-based lateral flow assays as point-of-care diagnostic device. <i>Nano Today</i> , 2020, 30, 100831.	6.2	128
68	Making electrical contacts to nanowires with a thick oxide coating. <i>Nanotechnology</i> , 2002, 13, 653-658.	1.3	124
69	Hydrodynamic spinning of hydrogel fibers. <i>Biomaterials</i> , 2010, 31, 863-869.	5.7	124
70	Palladium-grafted mesoporous MCM-41 material as heterogeneous catalyst for Heck reactions. <i>Chemical Communications</i> , 1997, , 2215-2216.	2.2	123
71	Patterned prevascularised tissue constructs by assembly of polyelectrolyte hydrogel fibres. <i>Nature Communications</i> , 2013, 4, 2353.	5.8	119
72	Entropy-Driven Helical Mesostructure Formation with Achiral Cationic Surfactant Templates. <i>Advanced Materials</i> , 2007, 19, 2454-2459.	11.1	118

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73	Size quantization and interfacial effects on a novel $\text{Fe}_3\text{O}_4/\text{SiO}_2$ magnetic nanocomposite via sol-gel matrix-mediated synthesis. <i>Journal of Applied Physics</i> , 1997, 81, 6892-6900.	1.1	117
74	Cell immobilization in gelatin- $\alpha$ -hydroxyphenylpropionic acid hydrogel fibers. <i>Biomaterials</i> , 2009, 30, 3523-3531.	5.7	117
75	Palladium Nanoclusters Supported on Propylurea-Modified Siliceous Mesocellular Foam for Coupling and Hydrogenation Reactions. <i>Chemistry - A European Journal</i> , 2008, 14, 3118-3125.	1.7	116
76	Zwitterionic polymers and hydrogels for antibiofouling applications in implantable devices. <i>Materials Today</i> , 2020, 38, 84-98.	8.3	113
77	Generalized Synthesis of Metal Oxide Nanosheets and Their Application as Li-Ion Battery Anodes. <i>Advanced Materials</i> , 2017, 29, 1701427.	11.1	110
78	A thixotropic nanocomposite gel for three-dimensional cell culture. <i>Nature Nanotechnology</i> , 2008, 3, 671-675.	15.6	108
79	Organocatalytic Synthesis of N-Phenylisoxazolidin-5-ones and a One-Pot Synthesis of $\alpha$ -Amino Acid Esters. <i>Organic Letters</i> , 2008, 10, 953-956.	2.4	108
80	Synthesis and Properties of $\text{Fe}_3\text{O}_4$ Nanoclusters within Mesoporous Aluminosilicate Matrices. <i>Journal of Physical Chemistry B</i> , 2001, 105, 7414-7423.	1.2	105
81	Enantioselective Catalysis over Chiral Imidazolidin-4-one Immobilized on Siliceous and Polymer-Coated Mesocellular Foams. <i>Advanced Synthesis and Catalysis</i> , 2006, 348, 2027-2032.	2.1	105
82	Nanomaterials for in situ cell delivery and tissue regeneration. <i>Advanced Drug Delivery Reviews</i> , 2010, 62, 731-740.	6.6	103
83	Ultrasmall natural peptides self-assemble to strong temperature-resistant helical fibers in scaffolds suitable for tissue engineering. <i>Nano Today</i> , 2011, 6, 232-239.	6.2	102
84	N-Heterocyclic Carbene (NHC)-Catalyzed Direct Amidation of Aldehydes with Nitroso Compounds. <i>Organic Letters</i> , 2008, 10, 2333-2336.	2.4	101
85	Rational Exploration of N-Heterocyclic Carbene (NHC) Palladacycle Diversity: A Highly Active and Versatile Precatalyst for Suzuki-Miyaura Coupling Reactions of Deactivated Aryl and Alkyl Substrates. <i>Chemistry - A European Journal</i> , 2010, 16, 4010-4017.	1.7	100
86	Synthesis of Carbohydrate-Conjugated Nanoparticles and Quantum Dots. <i>Langmuir</i> , 2008, 24, 6215-6219.	1.6	97
87	Comparison of Circulating Tumour Cells and Circulating Cell-Free Epstein-Barr Virus DNA in Patients with Nasopharyngeal Carcinoma Undergoing Radiotherapy. <i>Scientific Reports</i> , 2016, 6, 13.	1.6	97
88	Tumor-derived circulating endothelial cell clusters in colorectal cancer. <i>Science Translational Medicine</i> , 2016, 8, 345ra89.	5.8	92
89	Structural Evolution of Alkoxide Silica Gels to Glass: Effect of Catalyst pH. <i>Journal of the American Ceramic Society</i> , 1993, 76, 2571-2582.	1.9	91
90	Room-temperature synthesis of nanocrystalline $\text{Ag}_2\text{S}$ and its nanocomposites with gold. <i>Chemical Communications</i> , 2009, , 3187.	2.2	90

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91	Carbon Dioxide Mediated Stereoselective Copper-Catalyzed Reductive Coupling of Alkynes and Thiols. <i>Organic Letters</i> , 2012, 14, 1780-1783.	2.4	86
92	Main-Chain Organic Frameworks with Advanced Catalytic Functionalities. <i>ACS Catalysis</i> , 2015, 5, 2681-2691.	5.5	86
93	XPS investigation of surface oxidation and reduction in nanocrystalline $Ce_xLa_{1-x}O_2$ . <i>Surface and Interface Analysis</i> , 1995, 23, 219-226.	0.8	83
94	Instant Room-Temperature Gelation of Crude Oil by Chiral Organogelators. <i>Chemistry of Materials</i> , 2016, 28, 4001-4008.	3.2	83
95	Controlled photostability of luminescent nanocrystalline ZnO solution for selective detection of aldehydes. <i>Chemical Communications</i> , 2007, , 1406.	2.2	81
96	Practical One-Pot, Three-Component Synthesis of N-Heterocyclic Carbene (NHC) Ligated Palladacycles Derived from <i>N,N</i> -Dimethylbenzylamine. <i>Organometallics</i> , 2009, 28, 289-299.	1.1	81
97	Highly potent antimicrobial polyionenes with rapid killing kinetics, skin biocompatibility and <i>in vivo</i> bactericidal activity. <i>Biomaterials</i> , 2017, 127, 36-48.	5.7	81
98	Ultrasensitive Electrochemical DNA Biosensors Based on the Detection of a Highly Characteristic Solid-State Process. <i>Small</i> , 2009, 5, 1414-1417.	5.2	80
99	Diffusion of Gold from the Inner Core to the Surface of Ag <sub>2</sub> S Nanocrystals. <i>Journal of the American Chemical Society</i> , 2010, 132, 2114-2115.	6.6	80
100	Supramolecular high-aspect ratio assemblies with strong antifungal activity. <i>Nature Communications</i> , 2013, 4, 2861.	5.8	79
101	Mesoporous poly-melamine-formaldehyde (mPMF) – a highly efficient catalyst for chemoselective acetalization of aldehydes. <i>Green Chemistry</i> , 2013, 15, 1127.	4.6	78
102	A DNA biosensor based on the detection of doxorubicin-conjugated Ag nanoparticle labels using solid-state voltammetry. <i>Biosensors and Bioelectronics</i> , 2009, 25, 282-287.	5.3	77
103	Mesoporous Poly(Melamine-Formaldehyde) Solid Sorbent for Carbon Dioxide Capture. <i>ChemSusChem</i> , 2013, 6, 1186-1190.	3.6	77
104	Hydrosilylation of Ketone and Imine over Poly-N-Heterocyclic Carbene Particles. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 1390-1394.	2.1	76
105	Colloidal poly-imidazolium salts and derivatives. <i>Nano Today</i> , 2009, 4, 13-20.	6.2	76
106	Design and synthesis of nanostructured catalysts. <i>Chemical Engineering Science</i> , 2006, 61, 1540-1548.	1.9	75
107	Practical Heck-Mizoroki Coupling Protocol for Challenging Substrates Mediated by an N-Heterocyclic Carbene-Ligated Palladacycle. <i>Organic Letters</i> , 2008, 10, 3949-3952.	2.4	75
108	Nanostructured palladium-iron membranes for hydrogen separation and membrane hydrogenation reactions. <i>Journal of Membrane Science</i> , 2002, 203, 29-42.	4.1	74

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109	Nanocrystalline materials in catalysis and electrocatalysis: Structure tailoring and surface reactivity. <i>Scripta Materialia</i> , 1996, 7, 245-258.	0.5	73
110	Small-Angle Neutron Scattering and Theoretical Investigation of Poly(ethylene oxide)-Poly(propylene) Tj ETQq0 0 0 rgBT / Overlock 10	1.6	73
111	Mesoporous silica-supported catalysts for metathesis: application to a circulating flow reactor. <i>Chemical Communications</i> , 2010, 46, 806-808.	2.2	72
112	Extracellular Matrix-Mediated Differentiation of Human Embryonic Stem Cells: Differentiation to Insulin-Secreting Beta Cells. <i>Tissue Engineering - Part A</i> , 2014, 20, 424-433.	1.6	72
113	Three-dimensional microstructured tissue scaffolds fabricated by two-photon laser scanning photolithography. <i>Biomaterials</i> , 2010, 31, 7648-7652.	5.7	71
114	The impact of extracellular matrix coatings on the performance of human renal cells applied in bioartificial kidneys. <i>Biomaterials</i> , 2009, 30, 2899-2911.	5.7	70
115	Mechanistic Insights into the Reduction of Carbon Dioxide with Silanes over Nâ€Heterocyclic Carbene Catalysts. <i>ChemCatChem</i> , 2013, 5, 1490-1496.	1.8	70
116	Crystal Structure of an Ammonium Nickel Molybdate Prepared by Chemical Precipitation. <i>Inorganic Chemistry</i> , 1996, 35, 4191-4197.	1.9	68
117	Reverse Microemulsion-Mediated Synthesis and Structural Evolution of Barium Hexaaluminate Nanoparticles. <i>Langmuir</i> , 2000, 16, 3042-3049.	1.6	68
118	Supramolecular-Templated Synthesis of Nanoporous Zirconiaâ€Silica Catalysts. <i>Chemistry of Materials</i> , 2002, 14, 1961-1973.	3.2	68
119	Microporous Polyisocyanurate and Its Application in Heterogeneous Catalysis. <i>Chemistry - A European Journal</i> , 2009, 15, 1077-1081.	1.7	68
120	Highly Reactive Se Precursor for the Phosphine-Free Synthesis of Metal Selenide Nanocrystals. <i>Chemistry of Materials</i> , 2010, 22, 5672-5677.	3.2	68
121	Synthesis and characterization of phosphated mesoporous zirconium oxide. <i>Scripta Materialia</i> , 1997, 9, 165-168.	0.5	67
122	Carrier-Enhanced Anticancer Efficacy of Sunitinib-Loaded Green Tea-Based Micellar Nanocomplex beyond Tumor-Targeted Delivery. <i>ACS Nano</i> , 2019, 13, 7591-7602.	7.3	67
123	A stacking flow immunoassay for the detection of dengue-specific immunoglobulins in salivary fluid. <i>Lab on A Chip</i> , 2015, 15, 1465-1471.	3.1	66
124	Acid-Resistant and Physiological pH-Responsive DNA Hydrogel Composed of A-Motif and i-Motif toward Oral Insulin Delivery. <i>Journal of the American Chemical Society</i> , 2022, 144, 5461-5470.	6.6	66
125	Nanostructured palladium membrane synthesis by magnetron sputtering. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1995, 204, 140-145.	2.6	65
126	Supramolecular Templating of Thermally Stable Crystalline Mesoporous Metal Oxides Using Nanoparticulate Precursors. <i>Nano Letters</i> , 2001, 1, 637-642.	4.5	65



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127	Synthesis of Functionalized Au Nanoparticles for Protein Detection. <i>Advanced Materials</i> , 2008, 20, 430-434.	11.1	65
128	Functionalization of Gold Nanospheres and Nanorods by Chitosan Oligosaccharide Derivatives. <i>Advanced Materials</i> , 2008, 20, 2068-2073.	11.1	65
129	Imidazolium Salts: A Mild Reducing and Antioxidative Reagent. <i>Journal of the American Chemical Society</i> , 2008, 130, 12586-12587.	6.6	65
130	Catalytic redox activity and electrical conductivity of nanocrystalline non-stoichiometric cerium oxide. <i>Sensors and Actuators B: Chemical</i> , 1996, 31, 111-114.	4.0	64
131	Synthese von stabilen, hexagonal gepackten, mesoporösen Molekularsieben aus Nioboxid mittels eines neuartigen, Ligand-unterstützten Templatmechanismus. <i>Angewandte Chemie</i> , 1996, 108, 461-464.	1.6	64
132	The Effect of Zirconia Reinforcing Agents on the Microstructure and Mechanical Properties of Hydroxyapatite-Based Nanocomposites. <i>Journal of the American Ceramic Society</i> , 2005, 88, 3374-3379.	1.9	64
133	Surface Coating Directed Cellular Delivery of TAT-Functionalized Quantum Dots. <i>Bioconjugate Chemistry</i> , 2009, 20, 1752-1758.	1.8	64
134	Novel $\text{Fe}^{3+}$ - $\text{Fe}_2\text{O}_3/\text{SiO}_2$ magnetic nanocomposites via sol-gel matrix-mediated synthesis. <i>Scripta Materialia</i> , 1997, 9, 185-188.	0.5	63
135	Mechanistic study of NO reduction with methane over $\text{Co}^{2+}$ modified ZSM-5 catalysts. <i>Catalysis Today</i> , 1997, 33, 251-261.	2.2	63
136	The development of a nanocrystalline apatite reinforced crosslinked hyaluronic acid-tyramine composite as an injectable bone cement. <i>Biomaterials</i> , 2009, 30, 822-828.	5.7	63
137	The performance of primary human renal cells in hollow fiber bioreactors for bioartificial kidneys. <i>Biomaterials</i> , 2011, 32, 8806-8815.	5.7	63
138	Pt nanoparticle label-mediated deposition of Pt catalyst for ultrasensitive electrochemical immunosensors. <i>Biosensors and Bioelectronics</i> , 2010, 26, 418-423.	5.3	62
139	$\text{C}\equiv\text{C}$ Bond Formation via $\text{C}\equiv\text{H}$ Activation and $\text{C}\equiv\text{N}$ Bond Formation via Oxidative Amination Catalyzed by Palladium-Polyoxometalate Nanomaterials Using Dioxygen as the Terminal Oxidant. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 2988-2998.	2.1	62
140	Porous $\text{MnO}/\text{Mn}_3\text{O}_4$ nanocomposites for electrochemical energy storage. <i>Nano Energy</i> , 2015, 13, 702-708.	8.2	62
141	Interparticle interactions in magnetic core/shell nanoarchitectures. <i>Physical Review B</i> , 2009, 80, .	1.1	61
142	N-heterocycle carbene (NHC)-ligated cyclopalladated N,N-dimethylbenzylamine: a highly active, practical and versatile catalyst for the Heck-Mizoroki reaction. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 2110.	1.5	61
143	Mechanical synthesis of nanocrystalline $\text{Al}_2\text{O}_3$ seeds for enhanced transformation kinetics. <i>Scripta Materialia</i> , 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. <i>Chemical Communications</i> , 2010, 46, 3179.	2.2	59
146	Fe <sub>3</sub> O <sub>4</sub> -Ag nanocomposites for optical limiting: a broad temporal response and low threshold. <i>Optics Express</i> , 2010, 18, 6183.	1.7	59
147	Characterization of membrane materials and membrane coatings for bioreactor units of bioartificial kidneys. <i>Biomaterials</i> , 2011, 32, 1465-1476.	5.7	59
148	Noninvasive sensitive detection of KRAS and BRAF mutation in circulating tumor cells of colorectal cancer patients. <i>Molecular Oncology</i> , 2015, 9, 850-860.	2.1	59
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