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List of Publications by Year
in descending order

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76 papers	4,862 citations	117571 34 h-index	91828 69 g-index
78 all docs	78 docs citations	78 times ranked	7806 citing authors

#	Article	IF	Citations
1	Nanoparticle MALDI-TOF Mass Spectrometry without Fragmentation: Au₂₅(SCH₂CH₂Ph)₁₈ and Mixed Monolayer Au₂₅(SCH₂CH₂Ph)_{18âˆ’x}(L)_x. Journal of the American Chemical Society, 2008, 130, 5940-5946.	6.6	329
2	Nanoparticle conversion chemistry: Kirkendall effect, galvanic exchange, and anion exchange. Nanoscale, 2014, 6, 12195-12216.	2.8	290
3	Size-Dependent Nanoscale Kirkendall Effect During the Oxidation of Nickel Nanoparticles. ACS Nano, 2010, 4, 1913-1920.	7.3	284
4	Incorporation of Iron Oxide Nanoparticles and Quantum Dots into Silica Microspheres. ACS Nano, 2008, 2, 197-202.	7.3	248
5	Engineering InAsxP1-x/InP/ZnSe IIIâˆ’V Alloyed Core/Shell Quantum Dots for the Near-Infrared. Journal of the American Chemical Society, 2005, 127, 10526-10532.	6.6	238
6	Phosphine Oxide Polymer for Water-Soluble Nanoparticles. Journal of the American Chemical Society, 2005, 127, 4556-4557.	6.6	208
7	Electrospray Ionization Mass Spectrometry of Uniform and Mixed Monolayer Nanoparticles:â€‰ Au₂₅[S(CH₂)₂Ph]₁₈ and Au₂₅[S(CH₂)₂Ph]₁₈₋_x(SR)_x. Journal of the American Chemical Society, 2007, 129, 16209-16215.	6.6	195
8	Exchange biasing and magnetic properties of partially and fully oxidized colloidal cobalt nanoparticles. Physical Review B, 2005, 72, .	1.1	184
9	Photothermally and magnetically controlled reconfiguration of polymer composites for soft robotics. Science Advances, 2019, 5, eaaw2897.	4.7	173
10	Poly(ethylene glycol) Ligands for High-Resolution Nanoparticle Mass Spectrometry. Journal of the American Chemical Society, 2007, 129, 6706-6707.	6.6	171
11	Synthesis and Structural and Magnetic Characterization of Ni(Core)/NiO(Shell) Nanoparticles. ACS Nano, 2009, 3, 1077-1084.	7.3	155
12	Nickel Phosphide Nanoparticles with Hollow, Solid, and Amorphous Structures. Chemistry of Materials, 2009, 21, 4462-4467.	3.2	151
13	Synthesis of Au(Core)/Ag(Shell) Nanoparticles and their Conversion to AuAg Alloy Nanoparticles. Small, 2011, 7, 230-234.	5.2	134
14	Chained Iron Microparticles for Directionally Controlled Actuation of Soft Robots. ACS Applied Materials & Interfaces, 2017, 9, 11895-11901.	4.0	128
15	Preparation, characterization and applications of free-standing single walled carbon nanotube thin films. Physical Chemistry Chemical Physics, 2002, 4, 2273-2277.	1.3	112
16	Bulky Adamantanethiolate and Cyclohexanethiolate Ligands Favor Smaller Gold Nanoparticles with Altered Discrete Sizes. ACS Nano, 2012, 6, 4903-4911.	7.3	103
17	Size Limitations for the Formation of Ordered Striped Nanoparticles. Journal of the American Chemical Society, 2008, 130, 798-799.	6.6	100
18	Large-Scale Silica Overcoating of Gold Nanorods with Tunable Shell Thicknesses. Chemistry of Materials, 2015, 27, 2888-2894.	3.2	87

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19	Gold Nanoparticles with Perfluorothiolate Ligands. Langmuir, 2008, 24, 310-315.	1.6	84
20	Long-Range Alignment of Gold Nanorods in Electrospun Polymer Nano/Microfibers. Langmuir, 2011, 27, 13965-13969.	1.6	84
21	Arylthiolate-Protected Silver Quantum Dots. Langmuir, 2006, 22, 11376-11383.	1.6	83
22	Tandem Mass Spectrometry of Thiolate-Protected Au Nanoparticles Na_xAu₂₅(SC₂H₄Ph)_{18â^'y}(S(C₂H₄ Journal of the American Chemical Society, 2009, 131, 13844-13851.	6.2	74
23	Large-Scale Synthesis of Gold Nanorods through Continuous Secondary Growth. Chemistry of Materials, 2013, 25, 4537-4544.	3.2	68
24	Selective and directional actuation of elastomer films using chained magnetic nanoparticles. Nanoscale, 2016, 8, 1309-1313.	2.8	68
25	Magnetic field-directed self-assembly of magnetic nanoparticles. MRS Bulletin, 2013, 38, 915-920.	1.7	62
26	3Dâ€Printed Silicone Soft Architectures with Programmed Magnetoâ€Capillary Reconfiguration. Advanced Materials Technologies, 2019, 4, 1800528.	3.0	62
27	Imaging three-dimensional rotational diffusion of plasmon resonant gold nanorods using polarization-sensitive optical coherence tomography. Physical Review E, 2011, 83, 040903.	0.8	49
28	Fully Ferrocenated Hexanethiolate Monolayer-Protected Gold Clusters. Langmuir, 2007, 23, 2247-2254.	1.6	48
29	Probing biological nanotopology via diffusion of weakly constrained plasmonic nanorods with optical coherence tomography. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E4289-97.	3.3	43
30	Sequential Actuation of Shape-Memory Polymers through Wavelength-Selective Photothermal Heating of Gold Nanospheres and Nanorods. ACS Applied Nano Materials, 2018, 1, 3063-3067.	2.4	43
31	Defects in CoO in oxidized cobalt nanoparticles dominate exchange biasing and exhibit anomalous magnetic properties. Physical Review B, 2006, 74, .	1.1	41
32	A dual wavelength-activatable gold nanorod complex for synergistic cancer treatment. Nanoscale, 2015, 7, 12096-12103.	2.8	41
33	Reconfigurable Magnetic Origami Actuators with Onâ€Board Sensing for Guided Assembly. Advanced Materials, 2021, 33, e2008751.	11.1	39
34	Motility-, autocorrelation-, and polarization-sensitive optical coherence tomography discriminates cells and gold nanorods within 3D tissue cultures. Optics Letters, 2013, 38, 2923.	1.7	37
35	Anisotropic Thermal Processing of Polymer Nanocomposites via the Photothermal Effect of Gold Nanorods. Particle and Particle Systems Characterization, 2013, 30, 193-202.	1.2	34
36	Understanding and Controlling the Morphology of Silica Shells on Gold Nanorods. Chemistry of Materials, 2018, 30, 6249-6258.	3.2	34

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37	Spatial temperature mapping within polymer nanocomposites undergoing ultrafast photothermal heating via gold nanorods. Nanoscale, 2014, 6, 15236-15247.	2.8	33
38	Control of Branching in Ni₃C_{1â€“x} Nanoparticles and Their Conversion into Ni₁₂P₅ Nanoparticles. Chemistry of Materials, 2014, 26, 3057-3064.	3.2	32
39	Silica Overcoating of CdSe/CdS Core/Shell Quantum Dot Nanorods with Controlled Morphologies. Chemistry of Materials, 2016, 28, 4945-4952.	3.2	32
40	Nanostructural transformations during the reduction of hollow and porous nickel oxide nanoparticles. Nanoscale, 2013, 5, 155-159.	2.8	31
41	Imaging Extracellular Matrix Remodeling InÂVitro by Diffusion-Sensitive Optical Coherence Tomography. Biophysical Journal, 2016, 110, 1858-1868.	0.2	31
42	Enhanced Electrochemical Lithium-Ion Charge Storage of Iron Oxide Nanosheets. Chemistry of Materials, 2017, 29, 7794-7807.	3.2	28
43	Nanoscale steady-state temperature gradients within polymer nanocomposites undergoing continuous-wave photothermal heating from gold nanorods. Nanoscale, 2017, 9, 11605-11618.	2.8	27
44	Formation and Grain Analysis of Spin-Cast Magnetic Nanoparticle Monolayers. Langmuir, 2011, 27, 5040-5046.	1.6	25
45	Magnetic Fieldâ€Directed Selfâ€Assembly of Magnetic Nanoparticle Chains in Bulk Polymers. Particle and Particle Systems Characterization, 2013, 30, 759-763.	1.2	22
46	Microwave Enhancement of Autocatalytic Growth of Nanometals. ACS Nano, 2017, 11, 9957-9967.	7.3	22
47	Heteroaggregation Approach for Depositing Magnetite Nanoparticles onto Silica-Overcoated Gold Nanorods. Chemistry of Materials, 2017, 29, 10362-10368.	3.2	22
48	Photothermally Reconfigurable Shape Memory Magnetic Cilia. Advanced Materials Technologies, 2020, 5, 2000147.	3.0	22
49	Size and Composition Control of CoNi Nanoparticles and Their Conversion into Phosphides. Chemistry of Materials, 2017, 29, 2739-2747.	3.2	21
50	Programmable Anisotropy and Percolation in Supramolecular Patchy Particle Gels. ACS Nano, 2020, 14, 17018-17027.	7.3	21
51	Magnetic Alignment for Plasmonic Control of Gold Nanorods Coated with Iron Oxide Nanoparticles. Advanced Materials, 2022, 34, .	11.1	20
52	Coating Alumina on Catalytic Iron Oxide Nanoparticles for Synthesizing Vertically Aligned Carbon Nanotube Arrays. ACS Applied Materials & Interfaces, 2011, 3, 4180-4184.	4.0	19
53	Thermal Stability of Gold Nanoparticles Embedded within Metal Oxide Frameworks Fabricated by Hybrid Modifications onto Sacrificial Textile Templates. Langmuir, 2015, 31, 1135-1141.	1.6	17
54	Laterally patterned magnetic nanoparticles. Journal of Materials Chemistry, 2012, 22, 1962-1968.	6.7	15

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55	Direct monitoring of pulmonary disease treatment biomarkers using plasmonic gold nanorods with diffusion-sensitive OCT. Nanoscale, 2017, 9, 4907-4917.	2.8	14
56	Sinter-free phase conversion and scanning transmission electron microscopy of FePt nanoparticle monolayers. Nanoscale, 2011, 3, 4142.	2.8	13
57	Plasmon-Coupled Gold Nanoparticles in Stretched Shape-Memory Polymers for Mechanical/Thermal Sensing. ACS Applied Nano Materials, 2021, 4, 3911-3921.	2.4	13
58	Effects of Ligand Monolayers on Catalytic Nickel Nanoparticles for Synthesizing Vertically Aligned Carbon Nanofibers. ACS Applied Materials & Interfaces, 2011, 3, 936-940.	4.0	11
59	Photochemical synthesis of size-tailored hexagonal ZnS quantum dots. Chemical Communications, 2015, 51, 3087-3090.	2.2	11
60	Transfer of Vertically Aligned Carbon Nanofibers to Polydimethylsiloxane (PDMS) While Maintaining their Alignment and Impalefection Functionality. ACS Applied Materials & Interfaces, 2013, 5, 878-882.	4.0	10
61	Sulfidation and selenidation of nickel nanoparticles. , 2020, 3, 582.		10
62	Controlled Organization of Inorganic Materials Using Biological Molecules for Activating Therapeutic Functionalities. ACS Applied Materials & Interfaces, 2021, 13, 39030-39041.	4.0	10
63	Quantification of Interface-Dependent Plasmon Quality Factors Using Single-Beam Nonlinear Optical Interferometry. Analytical Chemistry, 2018, 90, 13702-13707.	3.2	8
64	Direct electrospinning of titania nanofibers with ethanol. Dalton Transactions, 2019, 48, 12822-12827.	1.6	8
65	Compositionâ€Mediated Orderâ€Disorder Transformation in FePt Nanoparticles. Particle and Particle Systems Characterization, 2013, 30, 678-682.	1.2	7
66	Synthesis and chemical transformation of Ni nanoparticles embedded in silica. Nanoscale, 2017, 9, 18959-18965.	2.8	7
67	Phase transformation of alumina-coated FePt nanoparticles. Journal of Applied Physics, 2012, 111, 07B522.	1.1	4
68	Airbrushed Nickel Nanoparticles for Large-Area Growth of Vertically Aligned Carbon Nanofibers on Metal (Al, Cu, Ti) Surfaces. ACS Applied Materials & Interfaces, 2013, 5, 8955-8960.	4.0	3
69	Diffusion-sensitive optical coherence tomography for real-time monitoring of mucus thinning treatments. Proceedings of SPIE, 2016, 9697, .	0.8	3
70	Teaching a Multidisciplinary Nanotechnology Laboratory Course to Undergraduate Students. Journal of Nano Education (Print), 2013, 5, 17-26.	0.3	2
71	Flexible Cyclicâ€Poly(phthalaldehyde)/Poly(Îµâ€caprolactone) Blend Fibers with Fast Daylightâ€Triggered Transience. Macromolecular Rapid Communications, 2021, 42, 2000657.	2.0	2
72	Size control of cobalt nanoparticles by adjusting the linear carboxylic acid ligand chain length. Journal of Magnetism and Magnetic Materials, 2022, 550, 169036.	1.0	2

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73	Aerosynthesis: Growth of Vertically-Aligned Carbon Nanofibres with Air DC Plasma. Nanomaterials and Nanotechnology, 2014, 4, 6.	1.2	1
74	Magnetic Actuators: 3Dâ€Printed Silicone Soft Architectures with Programmed Magnetoâ€Capillary Reconfiguration (Adv. Mater. Technol. 4/2019). Advanced Materials Technologies, 2019, 4, 1970021.	3.0	1
75	Spatially-Resolved ECM Nanotopology via Gold Nanorod Diffusion Mapping Using Polarization-Sensitive OCT. , 2015, , .		0
76	fMRI Has Added Value in Predicting Naming After Epilepsy Surgery. Neurology, 2022, 98, 959-960.	1.5	0