Alexander Wei

List of Publications by Year
in descending order

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128 papers	9,143 citations	57631 44 h-index	39575 94 g-index
139 all docs	139 docs citations	139 times ranked	11795 citing authors

#	Article	IF	Citations
1	In vitro and in vivo two-photon luminescence imaging of single gold nanorods. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 15752-15756.	3.3	919
2	Gold Nanorods Mediate Tumor Cell Death by Compromising Membrane Integrity. Advanced Materials, 2007, 19, 3136-3141.	11.1	545
3	Hyperthermic effects of gold nanorods on tumor cells. Nanomedicine, 2007, 2, 125-132.	1.7	512
4	Gold Nanorods as Contrast Agents for Biological Imaging: Optical Properties, Surface Conjugation and Photothermal Effects^{â€}. Photochemistry and Photobiology, 2009, 85, 21-32.	1.3	502
5	Toxicological studies on silver nanoparticles: challenges and opportunities in assessment, monitoring and imaging. Nanomedicine, 2011, 6, 879-898.	1.7	386
6	Resonant Field Enhancements from Metal Nanoparticle Arrays. Nano Letters, 2004, 4, 153-158.	4.5	374
7	Self-Assembly of Cobalt Nanoparticle Rings. Journal of the American Chemical Society, 2002, 124, 7914-7915.	6.6	314
8	Controlling the Cellular Uptake of Gold Nanorods. Langmuir, 2007, 23, 1596-1599.	1.6	288
9	Self-Organization of Large Gold Nanoparticle Arrays. Journal of the American Chemical Society, 2001, 123, 7955-7956.	6.6	264
10	Dithiocarbamate Assembly on Gold. Journal of the American Chemical Society, 2005, 127, 7328-7329.	6.6	255
11	Detoxification of Gold Nanorods by Treatment with Polystyrenesulfonate. ACS Nano, 2008, 2, 2481-2488.	7.3	224
12	Magnetomotive contrast for in vivo optical coherence tomography. Optics Express, 2005, 13, 6597.	1.7	172
13	Plasmon-resonant gold nanorods as low backscattering albedo contrast agents for optical coherence tomography. Optics Express, 2006, 14, 6724.	1.7	166
14	Calixarene-encapsulated nanoparticles: self-assembly into functional nanomaterials. Chemical Communications, 2006, , 1581.	2.2	160
15	Flux Closure in Self-Assembled Cobalt Nanoparticle Rings. Angewandte Chemie - International Edition, 2003, 42, 5591-5593.	7.2	157
16	Tunable Surface-Enhanced Raman Scattering from Large Gold Nanoparticle Arrays. ChemPhysChem, 2001, 2, 743.	1.0	154
17	Gold Nanorod Arrays as Plasmonic Cavity Resonators. ACS Nano, 2008, 2, 2569-2576.	7.3	138
18	Sulfide-Arrested Growth of Gold Nanorods. Chemistry of Materials, 2005, 17, 4256-4261.	3.2	137

#	Article	IF	Citations
19	Citrate-Stabilized Gold Nanorods. Langmuir, 2014, 30, 13727-13730.	1.6	122
20	Gyromagnetic Imaging: Dynamic Optical Contrast Using Gold Nanostars with Magnetic Cores. Journal of the American Chemical Society, 2009, 131, 9728-9734.	6.6	119
21	Pd- and Ni-catalyzed cross-coupling reactions in the synthesis of organic electronic materials. Science and Technology of Advanced Materials, 2014, 15, 044201.	2.8	111
22	Dispersion and Stability Studies of Resorcinarene-Encapsulated Gold Nanoparticles. Langmuir, 2002, 18, 3676-3681.	1.6	107
23	Off-axis electron holography of magnetic nanowires and chains, rings, and planar arrays of magnetic nanoparticles. Microscopy Research and Technique, 2004, 64, 390-402.	1.2	106
24	Plasmon-Resonant Nanoparticles and Nanostars with Magnetic Cores: Synthesis and Magnetomotive Imaging. ACS Nano, 2010, 4, 5163-5173.	7.3	106
25	In vivo photoacoustic mapping of lymphatic systems with plasmon-resonant nanostars. Journal of Materials Chemistry, 2011, 21, 2841.	6.7	100
26	Challenges and opportunities in the advancement of nanomedicines. Journal of Controlled Release, 2012, 164, 236-246.	4.8	100
27	Simultaneous SERS detection of copper and cobalt at ultratrace levels. Nanoscale, 2013, 5, 5841.	2.8	87
28	Synthesis of gold nanoparticles inside polyelectrolyte brushes. Journal of Materials Chemistry, 2007, 17, 3433.	6.7	85
29	Biological Evaluation of Rationally Modified Analogs of the H-Type II Blood Group Trisaccharide. A Correlation between Solution Conformation and Binding Affinity. Journal of the American Chemical Society, 1995, 117, 9432-9436.	6.6	84
30	Imaging gold nanorods in excised human breast carcinoma by spectroscopic optical coherence tomography. Journal of Materials Chemistry, 2009, 19, 6407.	6.7	82
31	Spherical ensembles of gold nanoparticles on silica: electrostatic and size effects. Chemical Communications, 2002, , 1604-1605.	2.2	80
32	Polymerâ€“iron oxide composite nanoparticles for EPR-independent drug delivery. Biomaterials, 2016, 101, 285-295.	5.7	78
33	Uniform Gold Nanorod Arrays from Polyethylenimine-Coated Alumina Templates. Journal of Physical Chemistry B, 2005, 109, 23336-23341.	1.2	71
34	Preferred Conformations of C-Glycosides. 14. Synthesis and Conformational Analysis of Carbon Analogs of the Blood Group Determinant H-Type II. Journal of Organic Chemistry, 1995, 60, 2160-2169.	1.7	65
35	Preferred conformation of C-glycosides. 12. Synthesis and conformational analysis of .alpha.,.alpha.-, .alpha.,.beta.-, and .beta.,.beta.-C-trehaloses. Journal of Organic Chemistry, 1994, 59, 88-96.	1.7	62
36	Dithiocarbamate-Coated SERS Substrates: Sensitivity Gain by Partial Surface Passivation. Langmuir, 2009, 25, 13833-13839.	1.6	61

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37	Encapsulation of Neutral Gold Nanoclusters by Resorcinarenes. Langmuir, 1999, 15, 8337-8339.	1.6	58
38	Temperature-Controlled Regioselectivity in the Reductive Cleavage of p-Methoxybenzylidene Acetals. Journal of Organic Chemistry, 2004, 69, 7206-7211.	1.7	58
39	Assembly of Dithiocarbamate-Anchored Monolayers on Gold Surfaces in Aqueous Solutions. Langmuir, 2008, 24, 8660-8666.	1.6	57
40	Protein Corona Analysis of Silver Nanoparticles Exposed to Fish Plasma. Environmental Science and Technology Letters, 2017, 4, 174-179.	3.9	57
41	Silver nanoparticle-specific mitotoxicity inDaphnia magna. Nanotoxicology, 2014, 8, 833-842.	1.6	51
42	Lasing Action with Gold Nanorod Hyperbolic Metamaterials. ACS Photonics, 2017, 4, 674-680.	3.2	49
43	Synthesis of l-Sugars from 4-Deoxypentenosides. Organic Letters, 2002, 4, 2281-2283.	2.4	46
44	Orthogonal Sulfation Strategy for Synthetic Heparan Sulfate Ligands. Organic Letters, 2005, 7, 5095-5098.	2.4	46
45	Cluster Size Analysis of Two-Dimensional Order in Colloidal Gold Nanoparticle Arrays. Langmuir, 2004, 20, 9360-9365.	1.6	44
46	Synergistic effects of cisplatin chemotherapy and gold nanorod-mediated hyperthermia on ovarian cancer cells and tumors. Nanomedicine, 2014, 9, 1939-1955.	1.7	43
47	Self-assembly and flux closure studies of magnetic nanoparticle rings. Journal of Materials Chemistry, 2011, 21, 16686.	6.7	42
48	Stereoelectronic Factors in the Stereoselective Epoxidation of Glycals and 4-Deoxypentenosides. Journal of Organic Chemistry, 2011, 76, 2532-2547.	1.7	42
49	Cys34-PEGylated Human Serum Albumin for Drug Binding and Delivery. Bioconjugate Chemistry, 2015, 26, 941-949.	1.8	41
50	TiN@TiO₂Coreâ€“Shell Nanoparticles as Plasmonâ€Enhanced Photosensitizers: The Role of Hot Electron Injection. Laser and Photonics Reviews, 2020, 14, 1900376.	4.4	39
51	Resorcinarene-Encapsulated Nanoparticles: Building Blocks for Self-Assembled Nanostructures. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2001, 41, 83-86.	1.6	36
52	Mirror-Image Carbohydrates:Â Synthesis of the Unnatural Enantiomer of a Blood Group Trisaccharide. Journal of Organic Chemistry, 2004, 69, 3391-3399.	1.7	36
53	Trace detection of tetrabromobisphenol A by SERS with DMAP-modified magnetic gold nanoclusters. Nanoscale, 2015, 7, 10931-10935.	2.8	34
54	Reversal of Flux Closure States in Cobalt Nanoparticle Rings With Coaxial Magnetic Pulses. Advanced Materials, 2008, 20, 4248-4252.	11.1	33

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55	Two-photon luminescence imaging of Bacillus spores using peptide-functionalized gold nanorods. Nano Research, 2008, 1, 450-456.	5.8	32
56	Vascular toxicity of silver nanoparticles to developing zebrafish (Danio rerio). Nanotoxicology, 2016, 10, 1363-1372.	1.6	32
57	Self-assembly of Resorcinarene-stabilized Gold Nanoparticles: Influence of the Macrocyclic Headgroup. Supramolecular Chemistry, 2005, 17, 173-180.	1.5	31
58	Bishydrazide Glycoconjugates for Lectin Recognition and Capture of Bacterial Pathogens. Bioconjugate Chemistry, 2010, 21, 2065-2075.	1.8	30
59	Optical Imaging with Dynamic Contrast Agents. Chemistry - A European Journal, 2011, 17, 1080-1091.	1.7	30
60	Optimized Synthesis of an Orthogonally Protected Glucosamine. Synthesis, 2002, 2002, 487-490.	1.2	29
61	Encapsulation and functionalization of nanoparticles in crosslinked resorcinarene shells. Journal of Materials Chemistry, 2007, 17, 105-112.	6.7	28
62	Stereoselective synthesis of [13C]methyl 2-[15N]amino-2-deoxy-Î²-d-glucopyranoside derivatives. Carbohydrate Research, 2001, 334, 271-279.	1.1	27
63	Nanosilver-coated socks and their toxicity to zebrafish (Danio rerio) embryos. Chemosphere, 2015, 119, 948-952.	4.2	27
64	Glycosyl Dithiocarbamates: Î²-Selective Couplings without Auxiliary Groups. Journal of Organic Chemistry, 2014, 79, 2611-2624.	1.7	25
65	Roll-to-Roll Manufactured Sensors for Nitroaromatic Organophosphorus Pesticides Detection. ACS Applied Materials & Interfaces, 2021, 13, 35961-35971.	4.0	24
66	Nanoprobe implantation into mammalian cells by cationic transfectionElectronic supplementary information (ESI) available: details of instrumentation, nanoprobe implantation and additional microscopy images. See http://www.rsc.org/suppdata/cc/b3/b317061f/. Chemical Communications, 2004, , 784.	2.2	23
67	Formation of the ST12 phase in nanocrystalline Ge at ambient pressure. Journal of Materials Chemistry, 2010, 20, 331-337.	6.7	23
68	Encagement of Gold Nanoclusters in Crosslinked Resorcinarene Shells. Supramolecular Chemistry, 2002, 14, 291-294.	1.5	22
69	syn Additions to 4Î±-Epoxypyranosides:â€‰ Synthesis of l-Idopyranosides. Organic Letters, 2007, 9, 4849-4852.	2.4	22
70	Nanometric Resolution in the Hydrodynamic Size Analysis of Ligand-Stabilized Gold Nanorods. Langmuir, 2014, 30, 13737-13743.	1.6	22
71	Rapid Uptake and Photodynamic Inactivation of Staphylococci by Ga(III)-Protoporphyrin IX. ACS Infectious Diseases, 2018, 4, 1564-1573.	1.8	22
72	Extraction and Dispersion of Large Gold Nanoparticles in Nonpolar Solvents. Journal of Dispersion Science and Technology, 2001, 22, 485-489.	1.3	21

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73	Conversion ofd-Glucals intol-Glycals and Mirror-Image Carbohydrates. Organic Letters, 2004, 6, 119-121.	2.4	21
74	Resorcinarene-Encapsulated Gold Nanorods: Solvatochromatism and Magnetic Nanoshell Formation. Supramolecular Chemistry, 2008, 20, 35-40.	1.5	21
75	Prenucleation and coalescence of cobalt nanoclusters mediated by multivalent calixarene complexes. Chemical Communications, 2009, , 4254.	2.2	21
76	Fabrication of Anisotropic Metal Nanostructures Using Innovations in Template-Assisted Lithography. ACS Nano, 2012, 6, 998-1003.	7.3	21
77	Preparation of Super-Stable Gold Nanorods via Encapsulation into Block Copolymer Micelles. ACS Applied Materials & Interfaces, 2012, 4, 1872-1877.	4.0	20
78	siRNA Delivery Using Dithiocarbamate-Anchored Oligonucleotides on Gold Nanorods. Bioconjugate Chemistry, 2019, 30, 443-453.	1.8	20
79	Stereoselective Epoxidation of 4-Deoxypentenosides:â€‰ A Polarized-Ï€ Model. Organic Letters, 2006, 8, 4545-4548.	2.4	18
80	Calixarene-stabilised cobalt nanoparticle rings: Self-assembly and collective magnetic properties. Supramolecular Chemistry, 2009, 21, 189-195.	1.5	18
81	Gold Nanorods: Multifunctional Agents for Cancer Imaging and Therapy. Methods in Molecular Biology, 2010, 624, 119-130.	0.4	18
82	Time-Resolved Proteomic Visualization of Dendrimer Cellular Entry and Trafficking. Journal of the American Chemical Society, 2015, 137, 12772-12775.	6.6	18
83	Antimicrobial photodynamic activity of gallium-substituted haemoglobin on silver nanoparticles. Nanoscale, 2020, 12, 21734-21742.	2.8	18
84	Selective Detection of Ethylene by MoS₂â€“Carbon Nanotube Networks Coated with Cu(I)â€“Pincer Complexes. ACS Sensors, 2020, 5, 1699-1706.	4.0	18
85	Differential response of macrophages to coreâ€“shell Fe3O4@Au nanoparticles and nanostars. Nanoscale, 2012, 4, 7143.	2.8	17
86	Label-Free Detection of Staphylococcus aureus Captured on Immutable Ligand Arrays. ACS Applied Materials & Interfaces, 2013, 5, 6404-6411.	4.0	17
87	Plasmonic Nanomaterials. Nanostructure Science and Technology, 2004, , 173-200.	0.1	16
88	Glycal Assembly by the in Situ Generation of Glycosyl Dithiocarbamates. Organic Letters, 2012, 14, 3380-3383.	2.4	16
89	Photolithography of dithiocarbamate-anchored monolayers and polymers on gold. Journal of Materials Chemistry, 2011, 21, 4371.	6.7	15
90	Preparation of orthogonally protected chitosan oligosaccharides: observation of an anomalous remote substituent effect. Carbohydrate Research, 2002, 337, 1319-1324.	1.1	13

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91	Designing Plasmonic Nanomaterials as Sensors of Biochemical Transport. E-Journal of Surface Science and Nanotechnology, 2006, 4, 9-18.	0.1	13
92	Plasmon-resonant gold nanorods provide spectroscopic OCT contrast in excised human breast tumors. , 2008, , .		12
93	Micellization and Single-Particle Encapsulation with Dimethylammoniopropyl Sulfobetaines. ACS Omega, 2017, 2, 1287-1294.	1.6	12
94	Synthesis and Characterization of Resorcinarene-Encapsulated Nanoparticles. Materials Research Society Symposia Proceedings, 1999, 581, 59.	0.1	11
95	Synthesis and Reactivity of 4â€²-Deoxypentenosyl Disaccharides. Journal of Organic Chemistry, 2014, 79, 4878-4891.	1.7	11
96	Dry Etching with Nanoparticles: Formation of High Aspectâ€Ratio Pores and Channels Using Magnetic Gold Nanoclusters. Advanced Materials, 2018, 30, 1703091.	11.1	11
97	Steady-State and Transient Performance of Ion-Sensitive Electrodes Suitable for Wearable and Implantable Electro-Chemical Sensing. IEEE Transactions on Biomedical Engineering, 2022, 69, 96-107.	2.5	11
98	Copper(I)â€“Pyrazolate Complexes as Solid-State Phosphors: Deep-Blue Emission through a Remote Steric Effect. Journal of the American Chemical Society, 2022, 144, 10186-10192.	6.6	11
99	Tuning the Optical Properties of Large Gold Nanoparticle Arrays. Materials Research Society Symposia Proceedings, 2001, 676, 611.	0.1	10
100	Calixarene-Mediated Synthesis of Cobalt Nanoparticles: An Accretion Model for Separate Control over Nucleation and Growth. Chemistry of Materials, 2014, 26, 941-950.	3.2	10
101	Practical Synthesis of Aromatic Dithiocarbamates. Synthetic Communications, 2014, 44, 2336-2343.	1.1	10
102	Probing osmotic effects on invertase with l-(âˆ')-sucrose. Organic and Biomolecular Chemistry, 2008, 6, 3362.	1.5	8
103	Solid-Phase Synthesis of Î±-Glucosamine Sulfoforms with Fragmentation Analysis by Tandem Mass Spectrometry. Journal of Organic Chemistry, 2008, 73, 6059-6072.	1.7	8
104	Metal-Mesh Lithography. ACS Applied Materials & Interfaces, 2011, 3, 4812-4818.	4.0	7
105	Solid-Phase Synthesis of 2-Aminoethyl Glucosamine Sulfoforms. Journal of Carbohydrate Chemistry, 2012, 31, 384-419.	0.4	7
106	Antidelaminating, Thermally Stable, and Cost-Effective Flexible Kapton Platforms for Nitrate Sensors, Mercury Aptasensors, Protein Sensors, and p-Type Organic Thin-Film Transistors. ACS Applied Materials & Interfaces, 2021, 13, 11369-11384.	4.0	7
107	Chiroptical Transitions of Enantiomeric Ligandâ€Activated Nickel Oxides. Small, 2022, 18, e2107570.	5.2	7
108	Label-Free Detection and Discrimination of Bacterial Pathogens Based on Hemin Recognition. Bioconjugate Chemistry, 2016, 27, 1713-1722.	1.8	6

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109	15N Nuclear Magnetic Resonance Spectroscopy. Changes in Nuclear Overhauser Effects andT1with Viscosity. Journal of the American Chemical Society, 1997, 119, 2915-2920.	6.6	5
110	Evaluation of steric effects on the exocyclic conformations of 6-C-methyl-substituted 2-acetamido-2-deoxy-Î²-d-glucopyranosides. Carbohydrate Research, 2002, 337, 83-86.	1.1	4
111	Frozen-Solution Conformational Analysis by REDOR Spectroscopy. Journal of the American Chemical Society, 2003, 125, 14958-14959.	6.6	4
112	Cryoprotection with L- and meso-Trehalose: Stereochemical Implications. ChemBioChem, 2006, 7, 1959-1964.	1.3	4
113	Sulfoform generation from an orthogonally protected disaccharide. Carbohydrate Research, 2012, 355, 19-27.	1.1	4
114	Eco-friendly (green) synthesis of magnetically active gold nanoclusters. Science and Technology of Advanced Materials, 2017, 18, 210-218.	2.8	4
115	A zinc-responsive fluorophore based on 5â€²-(p-hydroxyphenyl)-pyridylthiazole. Materials Chemistry Frontiers, 2020, 4, 899-904.	3.2	4
116	Synthesis and Conformational Analysis of 6-C-Methyl-Substituted 2-Acetamido-2-deoxy-Î²-d-glucopyranosyl Mono- and Disaccharides. Journal of Organic Chemistry, 2005, 70, 214-226.	1.7	3
117	Ligand-functionalized gold nanorods as theragnostic agents. , 2009, , .		2
118	Controlled Growth of Gold Nanorod Arrays from Polyethylenimine-coated Alumina Templates. Materials Research Society Symposia Proceedings, 2005, 900, O.12.32.1-O.12.32.7.	0.1	1
119	Plasmon-resonant nanorods as multimodal agents for two-photon luminescent imaging and photothermal therapy. , 2007, , .		1
120	Off-Axis Electron Holography of Self-Assembled Co Nanoparticle Rings. Materials Research Society Symposia Proceedings, 2007, 1026, 1.	0.1	1
121	Focus on the Advances in Nanomedicine Symposium, 233rd National Meeting of the American Chemical Society, 2006. Nanomedicine, 2007, 2, 83-83.	1.7	1
122	Metal Nanoparticle Ensembles. , 2004, , .		1
123	Encapsulation of Neutral Gold Nanoclusters by Resorcinarenes. Langmuir, 2000, 16, 3568-3568.	1.6	0
124	TEM Image Analysis of Self-Organized Large Gold Nanoparticle Arrays. Microscopy and Microanalysis, 2002, 8, 1134-1135.	0.2	0
125	XIIIth International Symposium on Supramolecular Chemistry, University of Notre Dame, SouthBend, IN, July 25â€“30, 2004: Preface. Supramolecular Chemistry, 2005, 17, 7-8.	1.5	0
126	Focus on organic electronics. Science and Technology of Advanced Materials, 2014, 15, 040301.	2.8	0

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127	Calixarene-Encapsulated Nanoparticles: Synthesis, Stabilization, and Self-Assembly. , 2016, , 921-939.		0
128	Vibrational Energy Harvester with Electric Double Layer Electrets. , 2020, , .		0