

Andrea R Tao

List of Publications by Year in descending order

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57
papers

8,963
citations

159585

30
h-index

161849

54
g-index

59
all docs

59
docs citations

59
times ranked

12569
citing authors

#	ARTICLE	IF	CITATIONS
1	Shape Control of Colloidal Metal Nanocrystals. <i>Small</i> , 2008, 4, 310-325.	10.0	2,205
2	Langmuir-Blodgett Silver Nanowire Monolayers for Molecular Sensing Using Surface-Enhanced Raman Spectroscopy. <i>Nano Letters</i> , 2003, 3, 1229-1233.	9.1	1,267
3	Polyhedral Silver Nanocrystals with Distinct Scattering Signatures. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 4597-4601.	13.8	693
4	Tunable plasmonic lattices of silver nanocrystals. <i>Nature Nanotechnology</i> , 2007, 2, 435-440.	31.5	572
5	Langmuir-Blodgett of Nanocrystals and Nanowires. <i>Accounts of Chemical Research</i> , 2008, 41, 1662-1673.	15.6	429
6	Fabrication of a Cylindrical Display by Patterned Assembly. <i>Science</i> , 2002, 296, 323-325.	12.6	426
7	Spontaneous formation of nanoparticle stripe patterns through dewetting. <i>Nature Materials</i> , 2005, 4, 896-900.	27.5	408
8	Self-orienting nanocubes for the assembly of plasmonic nanojunctions. <i>Nature Nanotechnology</i> , 2012, 7, 433-437.	31.5	292
9	Surface-Enhanced Raman Spectroscopy for Trace Arsenic Detection in Contaminated Water. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 6456-6460.	13.8	258
10	Localized Surface Plasmon Resonances of Anisotropic Semiconductor Nanocrystals. <i>Journal of the American Chemical Society</i> , 2011, 133, 19072-19075.	13.7	249
11	Self-Organized Silver Nanoparticles for Three-Dimensional Plasmonic Crystals. <i>Nano Letters</i> , 2008, 8, 4033-4038.	9.1	181
12	A General Method for Assembling Single Colloidal Particle Lines. <i>Nano Letters</i> , 2006, 6, 524-529.	9.1	179
13	Effects of Carrier Density and Shape on the Localized Surface Plasmon Resonances of Cu_2S Nanodisks. <i>Chemistry of Materials</i> , 2012, 24, 3765-3771.	6.7	156
14	Tunable and Directional Plasmonic Coupling within Semiconductor Nanodisk Assemblies. <i>Nano Letters</i> , 2014, 14, 2372-2380.	9.1	123
15	A Nanocube Plasmonic Sensor for Molecular Binding on Membrane Surfaces. <i>Nano Letters</i> , 2009, 9, 2077-2082.	9.1	111
16	Colloidal Plasmonic Nanocomposites: From Fabrication to Optical Function. <i>Chemical Reviews</i> , 2018, 118, 3100-3120.	47.7	110
17	Polarized Surface-Enhanced Raman Spectroscopy on Coupled Metallic Nanowires. <i>Journal of Physical Chemistry B</i> , 2005, 109, 15687-15690.	2.6	103
18	Efficient light generation from enhanced inelastic electron tunnelling. <i>Nature Photonics</i> , 2018, 12, 485-488.	31.4	100

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19	The role of protein assembly in dynamically tunable bio-optical tissues. <i>Biomaterials</i> , 2010, 31, 793-801.	11.4	90
20	Plasmonic nanocomposites: polymer-guided strategies for assembling metal nanoparticles. <i>Nanoscale</i> , 2013, 5, 5677.	5.6	84
21	Colloidal metasurfaces displaying near-ideal and tunable light absorbance in the infrared. <i>Nature Communications</i> , 2015, 6, 7325.	12.8	83
22	Supramolecular Precursors for the Synthesis of Anisotropic Cu ₂ S Nanocrystals. <i>Journal of the American Chemical Society</i> , 2014, 136, 6175-6178.	13.7	77
23	Changes in reflectin protein phosphorylation are associated with dynamic iridescence in squid. <i>Journal of the Royal Society Interface</i> , 2010, 7, 549-560.	3.4	66
24	Shape Focusing During the Anisotropic Growth of CuS Triangular Nanoprisms. <i>Chemistry of Materials</i> , 2015, 27, 4957-4963.	6.7	63
25	Plasmon-Enhanced Two-Photon Absorption in Photoluminescent Semiconductor Nanocrystals. <i>ACS Photonics</i> , 2016, 3, 526-531.	6.6	52
26	Modeling the Optical Properties of Bowtie Antenna Generated By Self-Assembled Ag Triangular Nanoprisms. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 4134-4142.	8.0	48
27	Using the Thickness of Graphene to Template Lateral Subnanometer Gaps between Gold Nanostructures. <i>Nano Letters</i> , 2015, 15, 635-640.	9.1	36
28	Plasmon-Exciton Coupling between Metallic Nanoparticles and Dye Monomers. <i>Journal of Physical Chemistry C</i> , 2017, 121, 3496-3502.	3.1	36
29	Enhanced Second Harmonic Generation in Double-Resonance Colloidal Metasurfaces. <i>Advanced Functional Materials</i> , 2018, 28, 1803019.	14.9	33
30	Computationally Guided Assembly of Oriented Nanocubes by Modulating Grafted Polymer-Surface Interactions. <i>Nano Letters</i> , 2015, 15, 7377-7382.	9.1	30
31	Automated quantitative image analysis of nanoparticle assembly. <i>Nanoscale</i> , 2015, 7, 9793-9805.	5.6	28
32	Designer nanojunctions: orienting shaped nanoparticles within polymer thin-film nanocomposites. <i>Chemical Communications</i> , 2013, 49, 4382-4384.	4.1	27
33	Digenite Nanosheets Synthesized by Thermolysis of Layered Copper-Alkanethiolate Frameworks. <i>Journal of the American Chemical Society</i> , 2016, 138, 13717-13725.	13.7	24
34	Halide-Directed Synthesis of Square Prismatic Ag Nanocrystals by the Polyol Method. <i>Chemistry of Materials</i> , 2018, 30, 4617-4623.	6.7	21
35	Imaging of Nanoscale Light Confinement in Plasmonic Nanoantennas by Brownian Optical Microscopy. <i>ACS Nano</i> , 2020, 14, 7666-7672.	14.6	18
36	Colloidal Nanoantennas for Hyperspectral Chemical Mapping. <i>ACS Nano</i> , 2016, 10, 7523-7531.	14.6	17

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37	Polyelectrolyte-Templated Synthesis of Bimetallic Nanoparticles. <i>Langmuir</i> , 2011, 27, 8494-8499.	3.5	15
38	Investigating the effect of Ag nanocube polydispersity on gap-mode SERS enhancement factors. <i>Analyst</i> , 2016, 141, 3916-3924.	3.5	15
39	Bio-inspired nanofabrication of barium titanate. <i>Journal of Materials Chemistry</i> , 2010, 20, 7916.	6.7	14
40	Metamaterials go Gattaca. <i>Nature Photonics</i> , 2014, 8, 6-8.	31.4	14
41	Metallomesogen Templates for Shape Control of Metal Selenide Nanocrystals. <i>Chemistry of Materials</i> , 2017, 29, 3653-3662.	6.7	12
42	Copper Sulfide Nanodisks and Nanoprisms for Photoacoustic Ovarian Tumor Imaging. <i>Particle and Particle Systems Characterization</i> , 2019, 36, 1900171.	2.3	12
43	Supramolecular Assembly of Single-Source Metal-Chalcogenide Nanocrystal Precursors. <i>Langmuir</i> , 2019, 35, 2887-2897.	3.5	11
44	Nanocrystal assembly for bottom-up plasmonic materials and surface-enhanced Raman spectroscopy (SERS) sensing. <i>Pure and Applied Chemistry</i> , 2009, 81, 61-71.	1.9	10
45	Modular, polymer-directed nanoparticle assembly for fabricating metamaterials. <i>Faraday Discussions</i> , 2016, 186, 489-502.	3.2	10
46	Polymer-directed assembly of colloidal nanoparticle heterojunctions. <i>CrystEngComm</i> , 2014, 16, 9434-9440.	2.6	8
47	Biofunctionalization of gold nanorods. <i>Pure and Applied Chemistry</i> , 2010, 83, 233-241.	1.9	7
48	Metasurface-Enhanced Raman Spectroscopy (mSERS) for Oriented Molecular Sensing. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 32598-32607.	8.0	7
49	Directed assembly of metal nanoparticles in polymer bilayers. <i>Molecular Systems Design and Engineering</i> , 2018, 3, 390-396.	3.4	5
50	Computation-Motivated Design of Ternary Plasmonic Copper Chalcogenide Nanocrystals. <i>Chemistry of Materials</i> , 2021, 33, 117-125.	6.7	5
51	Dynamics of nanoparticle assembly from disjointed images of nanoparticle-polymer composites. <i>Physical Review E</i> , 2016, 93, 022501.	2.1	3
52	Nanoparticles meet their sticky ends. <i>Science</i> , 2016, 351, 561-562.	12.6	2
53	Exploring Frontiers in Research and Teaching: NanoEngineering and Chemical Engineering at UC San Diego. <i>ACS Nano</i> , 2020, 14, 9203-9216.	14.6	2
54	Investigation of the light generation from crystalline Ag-cubes based metal-insulator-metal tunnel junctions. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
55	Applications to Soft Matter: general discussion. Faraday Discussions, 2016, 186, 503-527.	3.2	1
56	Synthesis of Nanoparticle Assemblies: general discussion. Faraday Discussions, 2016, 186, 123-152.	3.2	0
57	Nonlinear Optics: Enhanced Second Harmonic Generation in Double-Resonance Colloidal Metasurfaces (Adv. Funct. Mater. 51/2018). Advanced Functional Materials, 2018, 28, 1870367.	14.9	0