

# Andrea R Tao

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

8,963  
citations

159358

30  
h-index

161609

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.   | 5.2  | 2,205     |
| 2  | Langmuir-Blodgett Silver Nanowire Monolayers for Molecular Sensing Using Surface-Enhanced Raman Spectroscopy. <i>Nano Letters</i> , 2003, 3, 1229-1233.                   | 4.5  | 1,267     |
| 3  | Polyhedral Silver Nanocrystals with Distinct Scattering Signatures. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 4597-4601.                               | 7.2  | 693       |
| 4  | Tunable plasmonic lattices of silver nanocrystals. <i>Nature Nanotechnology</i> , 2007, 2, 435-440.   | 15.6 | 572       |
| 5  | Langmuir-Blodgett of Nanocrystals and Nanowires. <i>Accounts of Chemical Research</i> , 2008, 41, 1662-1673.  | 7.6  | 429       |
| 6  | Fabrication of a Cylindrical Display by Patterned Assembly. <i>Science</i> , 2002, 296, 323-325.  | 6.0  | 426       |
| 7  | Spontaneous formation of nanoparticle stripe patterns through dewetting. <i>Nature Materials</i> , 2005, 4, 896-900.  | 13.3 | 408       |
| 8  | Self-orienting nanocubes for the assembly of plasmonic nanojunctions. <i>Nature Nanotechnology</i> , 2012, 7, 433-437.  | 15.6 | 292       |
| 9  | Surface-Enhanced Raman Spectroscopy for Trace Arsenic Detection in Contaminated Water. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 6456-6460.            | 7.2  | 258       |
| 10 | Localized Surface Plasmon Resonances of Anisotropic Semiconductor Nanocrystals. <i>Journal of the American Chemical Society</i> , 2011, 133, 19072-19075.                 | 6.6  | 249       |
| 11 | Self-Organized Silver Nanoparticles for Three-Dimensional Plasmonic Crystals. <i>Nano Letters</i> , 2008, 8, 4033-4038.   | 4.5  | 181       |
| 12 | A General Method for Assembling Single Colloidal Particle Lines. <i>Nano Letters</i> , 2006, 6, 524-529.  | 4.5  | 179       |
| 13 | Effects of Carrier Density and Shape on the Localized Surface Plasmon Resonances of $\text{Cu}_2\text{S}$ Nanodisks. <i>Chemistry of Materials</i> , 2012, 24, 3765-3771. | 3.2  | 156       |
| 14 | Tunable and Directional Plasmonic Coupling within Semiconductor Nanodisk Assemblies. <i>Nano Letters</i> , 2014, 14, 2372-2380.   | 4.5  | 123       |
| 15 | A Nanocube Plasmonic Sensor for Molecular Binding on Membrane Surfaces. <i>Nano Letters</i> , 2009, 9, 2077-2082.   | 4.5  | 111       |
| 16 | Colloidal Plasmonic Nanocomposites: From Fabrication to Optical Function. <i>Chemical Reviews</i> , 2018, 118, 3100-3120.   | 23.0 | 110       |
| 17 | Polarized Surface-Enhanced Raman Spectroscopy on Coupled Metallic Nanowires. <i>Journal of Physical Chemistry B</i> , 2005, 109, 15687-15690.                             | 1.2  | 103       |
| 18 | Efficient light generation from enhanced inelastic electron tunnelling. <i>Nature Photonics</i> , 2018, 12, 485-488.  | 15.6 | 100       |

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|----|---|-----|-----------|
| 19 | The role of protein assembly in dynamically tunable bio-optical tissues. <i>Biomaterials</i> , 2010, 31, 793-801.   | 5.7 | 90        |
| 20 | Plasmonic nanocomposites: polymer-guided strategies for assembling metal nanoparticles. <i>Nanoscale</i> , 2013, 5, 5677.   | 2.8 | 84        |
| 21 | Colloidal metasurfaces displaying near-ideal and tunable light absorbance in the infrared. <i>Nature Communications</i> , 2015, 6, 7325.                                    | 5.8 | 83        |
| 22 | Supramolecular Precursors for the Synthesis of Anisotropic Cu <sub>2</sub> S Nanocrystals. <i>Journal of the American Chemical Society</i> , 2014, 136, 6175-6178.          | 6.6 | 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.            | 1.5 | 66        |
| 24 | Shape Focusing During the Anisotropic Growth of CuS Triangular Nanoprisms. <i>Chemistry of Materials</i> , 2015, 27, 4957-4963.   | 3.2 | 63        |
| 25 | Plasmon-Enhanced Two-Photon Absorption in Photoluminescent Semiconductor Nanocrystals. <i>ACS Photonics</i> , 2016, 3, 526-531.   | 3.2 | 52        |
| 26 | Modeling the Optical Properties of Bowtie Antenna Generated By Self-Assembled Ag Triangular Nanoprisms. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 4134-4142. | 4.0 | 48        |
| 27 | Using the Thickness of Graphene to Template Lateral Subnanometer Gaps between Gold Nanostructures. <i>Nano Letters</i> , 2015, 15, 635-640.                                 | 4.5 | 36        |
| 28 | Plasmon-Exciton Coupling between Metallic Nanoparticles and Dye Monomers. <i>Journal of Physical Chemistry C</i> , 2017, 121, 3496-3502.                                    | 1.5 | 36        |
| 29 | Enhanced Second Harmonic Generation in Double-Resonance Colloidal Metasurfaces. <i>Advanced Functional Materials</i> , 2018, 28, 1803019.                                   | 7.8 | 33        |
| 30 | Computationally Guided Assembly of Oriented Nanocubes by Modulating Grafted Polymer-Surface Interactions. <i>Nano Letters</i> , 2015, 15, 7377-7382.                        | 4.5 | 30        |
| 31 | Automated quantitative image analysis of nanoparticle assembly. <i>Nanoscale</i> , 2015, 7, 9793-9805.  | 2.8 | 28        |
| 32 | Designer nanojunctions: orienting shaped nanoparticles within polymer thin-film nanocomposites. <i>Chemical Communications</i> , 2013, 49, 4382-4384.                       | 2.2 | 27        |
| 33 | Digenite Nanosheets Synthesized by Thermolysis of Layered Copper-Alkanethiolate Frameworks. <i>Journal of the American Chemical Society</i> , 2016, 138, 13717-13725.       | 6.6 | 24        |
| 34 | Halide-Directed Synthesis of Square Prismatic Ag Nanocrystals by the Polyol Method. <i>Chemistry of Materials</i> , 2018, 30, 4617-4623.                                    | 3.2 | 21        |
| 35 | Imaging of Nanoscale Light Confinement in Plasmonic Nanoantennas by Brownian Optical Microscopy. <i>ACS Nano</i> , 2020, 14, 7666-7672.                                     | 7.3 | 18        |
| 36 | Colloidal Nanoantennas for Hyperspectral Chemical Mapping. <i>ACS Nano</i> , 2016, 10, 7523-7531.   | 7.3 | 17        |

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|----|---|------|-----------|
| 37 | Polyelectrolyte-Templated Synthesis of Bimetallic Nanoparticles. <i>Langmuir</i> , 2011, 27, 8494-8499.   | 1.6  | 15        |
| 38 | Investigating the effect of Ag nanocube polydispersity on gap-mode SERS enhancement factors. <i>Analyst</i> , 2016, 141, 3916-3924.                                 | 1.7  | 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.   | 15.6 | 14        |
| 41 | Metallomesogen Templates for Shape Control of Metal Selenide Nanocrystals. <i>Chemistry of Materials</i> , 2017, 29, 3653-3662.                                     | 3.2  | 12        |
| 42 | Copper Sulfide Nanodisks and Nanoprisms for Photoacoustic Ovarian Tumor Imaging. <i>Particle and Particle Systems Characterization</i> , 2019, 36, 1900171.         | 1.2  | 12        |
| 43 | Supramolecular Assembly of Single-Source Metal Chalcogenide Nanocrystal Precursors. <i>Langmuir</i> , 2019, 35, 2887-2897.  | 1.6  | 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. | 0.9  | 10        |
| 45 | Modular, polymer-directed nanoparticle assembly for fabricating metamaterials. <i>Faraday Discussions</i> , 2016, 186, 489-502.                                     | 1.6  | 10        |
| 46 | Polymer-directed assembly of colloidal nanoparticle heterojunctions. <i>CrystEngComm</i> , 2014, 16, 9434-9440.   | 1.3  | 8         |
| 47 | Biofunctionalization of gold nanorods. <i>Pure and Applied Chemistry</i> , 2010, 83, 233-241.   | 0.9  | 7         |
| 48 | Metasurface-Enhanced Raman Spectroscopy (mSERS) for Oriented Molecular Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 32598-32607.              | 4.0  | 7         |
| 49 | Directed assembly of metal nanoparticles in polymer bilayers. <i>Molecular Systems Design and Engineering</i> , 2018, 3, 390-396.                                   | 1.7  | 5         |
| 50 | Computation-Motivated Design of Ternary Plasmonic Copper Chalcogenide Nanocrystals. <i>Chemistry of Materials</i> , 2021, 33, 117-125.                              | 3.2  | 5         |
| 51 | Dynamics of nanoparticle assembly from disjointed images of nanoparticle-polymer composites. <i>Physical Review E</i> , 2016, 93, 022501.                           | 0.8  | 3         |
| 52 | Nanoparticles meet their sticky ends. <i>Science</i> , 2016, 351, 561-562.  | 6.0  | 2         |
| 53 | Exploring Frontiers in Research and Teaching: NanoEngineering and Chemical Engineering at UC San Diego. <i>ACS Nano</i> , 2020, 14, 9203-9216.                      | 7.3  | 2         |
| 54 | Investigation of the light generation from crystalline Ag-cubes based metal-insulator-metal tunnel junctions. , 2017, , .   |      | 2         |

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|----|--|-----|-----------|
| 55 | Applications to Soft Matter: general discussion. Faraday Discussions, 2016, 186, 503-527.  | 1.6 | 1         |
| 56 | Synthesis of Nanoparticle Assemblies: general discussion. Faraday Discussions, 2016, 186, 123-152.   | 1.6 | 0         |
| 57 | Nonlinear Optics: Enhanced Second Harmonic Generation in Double-Resonance Colloidal Metasurfaces (Adv. Funct. Mater. 51/2018). Advanced Functional Materials, 2018, 28, 1870367. | 7.8 | 0         |