

Ilan Jen-La Plante

List of Publications by Year in descending order

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27
papers

1,754
citations

516710

16
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526287

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27
all docs

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docs citations

27
times ranked

3251
citing authors

#	ARTICLE	IF	CITATIONS
1	A tunable library of substituted thiourea precursors to metal sulfide nanocrystals. <i>Science</i> , 2015, 348, 1226-1230.	12.6	343
2	Quantitative Study of the Effects of Surface Ligand Concentration on CdSe Nanocrystal Photoluminescence. <i>Journal of Physical Chemistry C</i> , 2007, 111, 6220-6227.	3.1	241
3	Spectral Control of Plasmonic Emission Enhancement from Quantum Dots near Single Silver Nanoprisms. <i>Nano Letters</i> , 2010, 10, 2598-2603.	9.1	228
4	Excitation enhancement of CdSe quantum dots by single metal nanoparticles. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	130
5	Synthesis of metal sulfide nanomaterials via thermal decomposition of single-source precursors. <i>Journal of Materials Chemistry</i> , 2010, 20, 6612.	6.7	118
6	Targeted intracellular voltage recordings from dendritic spines using quantum-dot-coated nanopipettes. <i>Nature Nanotechnology</i> , 2017, 12, 335-342.	31.5	107
7	Studying the chemical, optical and catalytic properties of noble metal (Pt, Pd, Ag.) <i>TJ ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 507 Td</i> <i>Materials Chemistry A</i> , 2013, 1, 1763-1769.	10.3	98
8	Interfacing Metal Nanoparticles with Semiconductor Nanowires. <i>Chemistry of Materials</i> , 2009, 21, 3662-3667.	6.7	62
9	Quantum Dot/Plasmonic Nanoparticle Metachromophores with Quantum Yields That Vary with Excitation Wavelength. <i>Nano Letters</i> , 2011, 11, 2725-2730.	9.1	56
10	Flexible Nanopipettes for Minimally Invasive Intracellular Electrophysiology In Vivo. <i>Cell Reports</i> , 2019, 26, 266-278.e5.	6.4	52
11	Exciton Quenching Due to Copper Diffusion Limits the Photocatalytic Activity of CdS/Cu ₂ S Nanorod Heterostructures. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 590-596.	4.6	45
12	Kinetic Control over CdS Nanocrystal Nucleation Using a Library of Thiocarbonates, Thiocarbamates, and Thioureas. <i>Chemistry of Materials</i> , 2017, 29, 8711-8719.	6.7	41
13	Colloidal CdSe quantum dot electroluminescence: ligands and light-emitting diodes. <i>Mikrochimica Acta</i> , 2008, 160, 345-350.	5.0	36
14	A facile one-step approach for the synthesis and assembly of copper and copper-oxide nanocrystals. <i>Journal of Materials Chemistry</i> , 2011, 21, 11626.	6.7	29
15	Selective growth of metal particles on ZnO nanopyramids via a one-pot synthesis. <i>Nanoscale</i> , 2014, 6, 1335-1339.	5.6	21
16	Two-dimensional Fullerene Assembly from an Exfoliated van der Waals Template. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6125-6129.	13.8	18
17	Precursor reaction kinetics control compositional grading and size of CdSe _x S _{1-x} nanocrystal heterostructures. <i>Chemical Science</i> , 2019, 10, 6539-6552.	7.4	18
18	Selective growth of metal sulfide tips onto cadmium chalcogenide nanostructures. <i>CrystEngComm</i> , 2012, 14, 7590.	2.6	17

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19	Extremely Slow Trap-Mediated Hole Relaxation in Room-Temperature InP/ZnSe/ZnS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2021, 125, 4110-4118.	3.1	17
20	Coating and Enhanced Photocurrent of Vertically Aligned Zinc Oxide Nanowire Arrays with Metal Sulfide Materials. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 13594-13599.	8.0	16
21	Resonance Raman Study of Shell Morphology in InP/ZnSe/ZnS Core/Shell/Shell Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2021, 125, 10549-10557.	3.1	14
22	Auger Dynamics in InP/ZnSe/ZnS Quantum Dots Having Pure and Doped Shells. <i>Journal of Physical Chemistry C</i> , 2021, 125, 15405-15414.	3.1	12
23	Harnessing Thermal Expansion Mismatch to Form Hollow Nanoparticles. <i>Small</i> , 2013, 9, 56-60.	10.0	8
24	Radiative dynamics and delayed emission in pure and doped InP/ZnSe/ZnS quantum dots. <i>Journal of Chemical Physics</i> , 2021, 155, 244705.	3.0	8
25	Highly luminescent $\text{CuGa}_x\text{In}_{1-x}\text{S}_y\text{Se}_{2-y}$ nanocrystals from organometallic single-source precursors. <i>Journal of Materials Chemistry C</i> , 2015, 3, 4657-4662.	5.5	7
26	Two-Dimensional Fullerene Assembly from an Exfoliated van der Waals Template. <i>Angewandte Chemie</i> , 2018, 130, 6233-6237.	2.0	6
27	Biexciton and trion dynamics in InP/ZnSe/ZnS quantum dots. <i>Journal of Chemical Physics</i> , 2022, 156, 054703.	3.0	6