

Igor Coropceanu

List of Publications by Citations

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29
papers

1,310
citations

17
h-index

32
g-index

32
ext. papers

1,600
ext. citations

15
avg, IF

4.67
L-index

#	Paper	IF	Citations
29	Next-generation optical imaging with short-wave infrared quantum dots. <i>Nature Biomedical Engineering</i> , 2017 , 1,	19	360
28	Core/shell quantum dot based luminescent solar concentrators with reduced reabsorption and enhanced efficiency. <i>Nano Letters</i> , 2014 , 14, 4097-101	11.5	251
27	Evolution of the Single-Nanocrystal Photoluminescence Linewidth with Size and Shell: Implications for Exciton-Phonon Coupling and the Optimization of Spectral Linewidths. <i>Nano Letters</i> , 2016 , 16, 289-96	11.5	109
26	Slow-Injection Growth of Seeded CdSe/CdS Nanorods with Unity Fluorescence Quantum Yield and Complete Shell to Core Energy Transfer. <i>ACS Nano</i> , 2016 , 10, 3295-301	16.7	77
25	A Low Reabsorbing Luminescent Solar Concentrator Employing π -Conjugated Polymers. <i>Advanced Materials</i> , 2016 , 28, 497-501	24	61
24	Crosslinking using rapid thermal processing for the fabrication of efficient solution-processed phosphorescent organic light-emitting diodes. <i>Advanced Materials</i> , 2013 , 25, 1739-44	24	60
23	Direct Synthesis of Six-Monolayer (1.9 nm) Thick Zinc-Blende CdSe Nanoplatelets Emitting at 585 nm. <i>Chemistry of Materials</i> , 2018 , 30, 6957-6960	9.6	60
22	Colloidal Atomic Layer Deposition with Stationary Reactant Phases Enables Precise Synthesis of "Digital" II-VI Nano-heterostructures with Exquisite Control of Confinement and Strain. <i>Journal of the American Chemical Society</i> , 2019 , 141, 13487-13496	16.4	41
21	Semiconductor Nanoplatelet Excimers. <i>Nano Letters</i> , 2018 , 18, 6948-6953	11.5	37
20	Quantized Reaction Pathways for Solution Synthesis of Colloidal ZnSe Nanostructures: A Connection between Clusters, Nanowires, and Two-Dimensional Nanoplatelets. <i>ACS Nano</i> , 2020 , 14, 3847-3857	16.7	30
19	Terahertz-Driven Luminescence and Colossal Stark Effect in CdSe-CdS Colloidal Quantum Dots. <i>Nano Letters</i> , 2017 , 17, 5375-5380	11.5	28
18	Systematic Mapping of Binary Nanocrystal Superlattices: The Role of Topology in Phase Selection. <i>Journal of the American Chemical Society</i> , 2019 , 141, 5728-5740	16.4	25
17	Polarized near-infrared intersubband absorptions in CdSe colloidal quantum wells. <i>Nature Communications</i> , 2019 , 10, 4511	17.4	23
16	A Ligand System for the Flexible Functionalization of Quantum Dots via Click Chemistry. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4652-4656	16.4	22
15	Luminescent Surfaces with Tailored Angular Emission for Compact Dark-Field Imaging Devices. <i>Nature Photonics</i> , 2020 , 14, 310-315	33.9	21
14	Sample-averaged biexciton quantum yield measured by solution-phase photon correlation. <i>Nano Letters</i> , 2014 , 14, 6792-8	11.5	19
13	Multiexciton Lifetimes Reveal Triexciton Emission Pathway in CdSe Nanocrystals. <i>Nano Letters</i> , 2018 , 18, 5153-5158	11.5	18

12	Direct Optical Patterning of Quantum Dot Light-Emitting Diodes via In Situ Ligand Exchange. <i>Advanced Materials</i> , 2020 , 32, e2003805	24	14
11	Nonequilibrium Thermodynamics of Colloidal Gold Nanocrystals Monitored by Ultrafast Electron Diffraction and Optical Scattering Microscopy. <i>ACS Nano</i> , 2020 , 14, 4792-4804	16.7	13
10	Bright trion emission from semiconductor nanoplatelets. <i>Physical Review Materials</i> , 2020 , 4,	3.2	9
9	A Ligand System for the Flexible Functionalization of Quantum Dots via Click Chemistry. <i>Angewandte Chemie</i> , 2018 , 130, 4742-4746	3.6	7
8	Self-assembly of nanocrystals into strongly electronically coupled all-inorganic supercrystals.. <i>Science</i> , 2022 , 375, 1422-1426	33.3	6
7	Terahertz-Driven Stark Spectroscopy of CdSe and CdSe-CdS Core-Shell Quantum Dots. <i>Nano Letters</i> , 2019 , 19, 8125-8131	11.5	4
6	Titanium Nitride Modified Photoluminescence from Single Semiconductor Nanoplatelets. <i>Advanced Functional Materials</i> , 2020 , 30, 1904179	15.6	4
5	Direct Optical Lithography of Colloidal Metal Oxide Nanomaterials for Diffractive Optical Elements with 2Phase Control. <i>Journal of the American Chemical Society</i> , 2021 , 143, 2372-2383	16.4	4
4	Thermal Recovery of Colloidal Quantum Dot Ensembles Following Photoinduced Dimming. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2933-7	6.4	3
3	Heat-driven acoustic phonons in lamellar nanoplatelet assemblies. <i>Nanoscale</i> , 2020 , 12, 9661-9668	7.7	3
2	Nanoscale Disorder Generates Subdiffusive Heat Transport in Self-Assembled Nanocrystal Films. <i>Nano Letters</i> , 2021 , 21, 3540-3547	11.5	1
1	Optical Patterning: Direct Optical Patterning of Quantum Dot Light-Emitting Diodes via In Situ Ligand Exchange (Adv. Mater. 46/2020). <i>Advanced Materials</i> , 2020 , 32, 2070346	24	