

Alexander S Urban

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54
papers

7,342
citations

33
h-index

62
g-index

62
ext. papers

8,563
ext. citations

11.9
avg, IF

6.14
L-index

#	Paper	IF	Citations
54	Solar vapor generation enabled by nanoparticles. <i>ACS Nano</i> , 2013 , 7, 42-9	16.7	882
53	Metal Halide Perovskite Nanocrystals: Synthesis, Post-Synthesis Modifications, and Their Optical Properties. <i>Chemical Reviews</i> , 2019 , 119, 3296-3348	68.1	712
52	Quantum Size Effect in Organometal Halide Perovskite Nanoplatelets. <i>Nano Letters</i> , 2015 , 15, 6521-7	11.5	629
51	Highly Luminescent Cesium Lead Halide Perovskite Nanocrystals with Tunable Composition and Thickness by Ultrasonication. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 13887-13892	16.4	466
50	Near-field mediated plexcitonic coupling and giant Rabi splitting in individual metallic dimers. <i>Nano Letters</i> , 2013 , 13, 3281-6	11.5	365
49	Nanoparticles heat through light localization. <i>Nano Letters</i> , 2014 , 14, 4640-5	11.5	320
48	Carbon Dots: A Unique Fluorescent Cocktail of Polycyclic Aromatic Hydrocarbons. <i>Nano Letters</i> , 2015 , 15, 6030-5	11.5	308
47	Colloidal lead halide perovskite nanocrystals: synthesis, optical properties and applications. <i>NPG Asia Materials</i> , 2016 , 8, e328-e328	10.3	304
46	Au nanomatryoshkas as efficient near-infrared photothermal transducers for cancer treatment: benchmarking against nanoshells. <i>ACS Nano</i> , 2014 , 8, 6372-81	16.7	283
45	Boosting Tunable Blue Luminescence of Halide Perovskite Nanoplatelets through Postsynthetic Surface Trap Repair. <i>Nano Letters</i> , 2018 , 18, 5231-5238	11.5	245
44	Embedding plasmonic nanostructure diodes enhances hot electron emission. <i>Nano Letters</i> , 2013 , 13, 1687-92	11.5	244
43	Tuning the Optical Properties of Perovskite Nanoplatelets through Composition and Thickness by Ligand-Assisted Exfoliation. <i>Advanced Materials</i> , 2016 , 28, 9478-9485	24	213
42	From Precursor Powders to CsPbX Perovskite Nanowires: One-Pot Synthesis, Growth Mechanism, and Oriented Self-Assembly. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13887-13892	16.4	189
41	Tracking the Source of Carbon Dot Photoluminescence: Aromatic Domains versus Molecular Fluorophores. <i>Nano Letters</i> , 2017 , 17, 7710-7716	11.5	160
40	Effect of nitrogen atom positioning on the trade-off between emissive and photocatalytic properties of carbon dots. <i>Nature Communications</i> , 2017 , 8, 1401	17.4	152
39	Three-dimensional plasmonic nanoclusters. <i>Nano Letters</i> , 2013 , 13, 4399-403	11.5	148
38	Laser printing single gold nanoparticles. <i>Nano Letters</i> , 2010 , 10, 4794-8	11.5	130

37	Controlled nanometric phase transitions of phospholipid membranes by plasmonic heating of single gold nanoparticles. <i>Nano Letters</i> , 2009 , 9, 2903-8	11.5	124
36	Dilution-Induced Formation of Hybrid Perovskite Nanoplatelets. <i>ACS Nano</i> , 2016 , 10, 10936-10944	16.7	112
35	Spontaneous Self-Assembly of Perovskite Nanocrystals into Electronically Coupled Supercrystals: Toward Filling the Green Gap. <i>Advanced Materials</i> , 2018 , 30, e1801117	24	105
34	Surface-state related luminescence in ZnO nanocrystals. <i>Journal of Applied Physics</i> , 2007 , 101, 073506	2.5	104
33	Optical trapping and manipulation of plasmonic nanoparticles: fundamentals, applications, and perspectives. <i>Nanoscale</i> , 2014 , 6, 4458-74	7.7	92
32	Identifying and Reducing Interfacial Losses to Enhance Color-Pure Electroluminescence in Blue-Emitting Perovskite Nanoplatelet Light-Emitting Diodes. <i>ACS Energy Letters</i> , 2019 , 4, 1181-1188	20.1	80
31	Optical force stamping lithography. <i>Nano Letters</i> , 2011 , 11, 5066-70	11.5	77
30	Sub-100nm gold nanomatryoshkas improve photo-thermal therapy efficacy in large and highly aggressive triple negative breast tumors. <i>Journal of Controlled Release</i> , 2014 , 191, 90-97	11.7	71
29	Single-step injection of gold nanoparticles through phospholipid membranes. <i>ACS Nano</i> , 2011 , 5, 3585-90	6.7	70
28	Accelerated Carrier Relaxation through Reduced Coulomb Screening in Two-Dimensional Halide Perovskite Nanoplatelets. <i>ACS Nano</i> , 2018 , 12, 10151-10158	16.7	54
27	Resonantly enhanced multiple exciton generation through below-band-gap multi-photon absorption in perovskite nanocrystals. <i>Nature Communications</i> , 2018 , 9, 1518	17.4	50
26	Starke Lumineszenz in Nanokristallen aus Caesiumbleihalogenid-Perowskit mit durchstimmbarer Zusammensetzung und Dicke mittels Ultraschalldispersion. <i>Angewandte Chemie</i> , 2016 , 128, 14091-14096	2.6	48
25	An Optically Controlled Microscale Elevator Using Plasmonic Janus Particles. <i>ACS Photonics</i> , 2015 , 2, 491-496	6.3	43
24	Optical Nanoparticle Sorting Elucidates Synthesis of Plasmonic Nanotriangles. <i>ACS Nano</i> , 2016 , 10, 3614-3617	2.7	35
23	Polymer Nanoreactors Shield Perovskite Nanocrystals from Degradation. <i>Nano Letters</i> , 2019 , 19, 4928-4933	3.3	35
22	Controlling loading and optical properties of gold nanoparticles on liposome membranes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009 , 342, 92-96	5.1	32
21	Tuning the optical bandgap in layered hybrid perovskites through variation of alkyl chain length. <i>APL Materials</i> , 2019 , 7, 041116	5.7	31
20	Light-emitting electrochemical cells based on inorganic metal halide perovskite nanocrystals. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 334001	3	26

19	Dephasing and Quantum Beating of Excitons in Methylammonium Lead Iodide Perovskite Nanoplatelets. <i>ACS Photonics</i> , 2018 , 5, 648-654	6.3	26
18	Membrane composition of jetted lipid vesicles: a Raman spectroscopy study. <i>Journal of Biophotonics</i> , 2012 , 5, 40-6	3.1	24
17	Nonradiative Energy Transfer between Thickness-Controlled Halide Perovskite Nanoplatelets. <i>ACS Energy Letters</i> , 2020 , 5, 1380-1385	20.1	23
16	Preferential Orientation of Crystals Induced by Incorporation of Organic Ligands in Mixed-Dimensional Hybrid Perovskite Films. <i>Advanced Optical Materials</i> , 2018 , 6, 1701311	8.1	23
15	Von Vorläuferpulvern zu CsPbX ₃ -Perowskit-Nanodrähten: Eintopfreaktion, Wachstumsmechanismus und gerichtete Selbstassemblierung. <i>Angewandte Chemie</i> , 2017 , 129, 14075-14080	3.6	22
14	Exploring the Optical Nonlinearities of Plasmon-Exciton Hybrid Resonances in Coupled Colloidal Nanostructures. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 12226-12233	3.8	18
13	Shrink-to-fit Plasmonic Nanostructures. <i>Advanced Optical Materials</i> , 2013 , 1, 123-127	8.1	16
12	Externally modulated theranostic nanoparticles. <i>Translational Cancer Research</i> , 2013 , 2, 292-308	0.3	16
11	Molecular, Aromatic, and Amorphous Domains of N-Carbon Dots: Leading toward the Competitive Photoluminescence and Photocatalytic Properties. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 4299-4309	3.8	13
10	Thickness-Dependence of Exciton-Exciton Annihilation in Halide Perovskite Nanoplatelets. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 5361-5366	6.4	12
9	Fast Electron and Slow Hole Relaxation in InP-Based Colloidal Quantum Dots. <i>ACS Nano</i> , 2019 , 13, 14408-14415	16.4	12
8	Strong Quantum Confinement Effects and Chiral Excitons in Bio-Inspired ZnO/Amino Acid Cocrystals. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 6348-6356	3.8	11
7	Dark and Bright Excitons in Halide Perovskite Nanoplatelets.. <i>Advanced Science</i> , 2021 , e2103013	13.6	11
6	Elucidating the performance limits of perovskite nanocrystal light emitting diodes. <i>Journal of Luminescence</i> , 2020 , 220, 116939	3.8	11
5	Real-Time Electron and Hole Transport Dynamics in Halide Perovskite Nanowires. <i>Nano Letters</i> , 2019 , 19, 8701-8707	11.5	7
4	How Exciton-Phonon Coupling Impacts Photoluminescence in Halide Perovskite Nanoplatelets. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 11371-11377	6.4	7
3	Ru(TAP) ₃ ²⁺ uses multivalent binding to accelerate and constrain photo-adduct formation on DNA. <i>Chemical Communications</i> , 2019 , 55, 8764-8767	5.8	6
2	The influence of waveguide modes on stimulated emission from ZnO nanorods. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006 , 3, 3557-3560		2

1 Doubly Stabilized Perovskite Nanocrystal Luminescence Downconverters. *Advanced Optical Materials*, 2102791 8.1 o