Alexander S Urban

List of Publications by Year in Descending Order

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	Dark and Bright Excitons in Halide Perovskite Nanoplatelets.. *Advanced Science*, **2021**, e2103013	13.6	11
53	How Exciton-Phonon Coupling Impacts Photoluminescence in Halide Perovskite Nanoplatelets. *Journal of Physical Chemistry Letters*, **2021**, 12, 11371-11377	6.4	7
52	Molecular, Aromatic, and Amorphous Domains of N-Carbon Dots: Leading toward the Competitive Photoluminescence and Photocatalytic Properties. *Journal of Physical Chemistry C*, **2021**, 125, 4299-4309	3.8	13
51	Thickness-Dependence of Exciton-Exciton Annihilation in Halide Perovskite Nanoplatelets. *Journal of Physical Chemistry Letters*, **2020**, 11, 5361-5366	6.4	12
50	Nonradiative Energy Transfer between Thickness-Controlled Halide Perovskite Nanoplatelets. *ACS Energy Letters*, **2020**, 5, 1380-1385	20.1	23
49	Elucidating the performance limits of perovskite nanocrystal light emitting diodes. *Journal of Luminescence*, **2020**, 220, 116939	3.8	11
48	Ru(TAP)32+ uses multivalent binding to accelerate and constrain photo-adduct formation on DNA. *Chemical Communications*, **2019**, 55, 8764-8767	5.8	6
47	Identifying and Reducing Interfacial Losses to Enhance Color-Pure Electroluminescence in Blue-Emitting Perovskite Nanoplatelet Light-Emitting Diodes. *ACS Energy Letters*, **2019**, 4, 1181-1188	20.1	80
46	Tuning the optical bandgap in layered hybrid perovskites through variation of alkyl chain length. *APL Materials*, **2019**, 7, 041116	5.7	31
45	Polymer Nanoreactors Shield Perovskite Nanocrystals from Degradation. *Nano Letters*, **2019**, 19, 4928-4933	11.5	35
44	Real-Time Electron and Hole Transport Dynamics in Halide Perovskite Nanowires. *Nano Letters*, **2019**, 19, 8701-8707	11.5	7
43	Metal Halide Perovskite Nanocrystals: Synthesis, Post-Synthesis Modifications, and Their Optical Properties. *Chemical Reviews*, **2019**, 119, 3296-3348	68.1	712
42	Fast Electron and Slow Hole Relaxation in InP-Based Colloidal Quantum Dots. *ACS Nano*, **2019**, 13, 14408-14415	14.7	12
41	Strong Quantum Confinement Effects and Chiral Excitons in Bio-Inspired ZnO-Amino Acid Cocrystals. *Journal of Physical Chemistry C*, **2018**, 122, 6348-6356	3.8	11
40	Resonantly enhanced multiple exciton generation through below-band-gap multi-photon absorption in perovskite nanocrystals. *Nature Communications*, **2018**, 9, 1518	17.4	50
39	Preferential Orientation of Crystals Induced by Incorporation of Organic Ligands in Mixed-Dimensional Hybrid Perovskite Films. *Advanced Optical Materials*, **2018**, 6, 1701311	8.1	23
38	Light-emitting electrochemical cells based on inorganic metal halide perovskite nanocrystals. *Journal Physics D: Applied Physics*, **2018**, 51, 334001	3	26

37	Boosting Tunable Blue Luminescence of Halide Perovskite Nanoplatelets through Postsynthetic Surface Trap Repair. *Nano Letters*, **2018**, 18, 5231-5238	11.5	245
36	Spontaneous Self-Assembly of Perovskite Nanocrystals into Electronically Coupled Supercrystals: Toward Filling the Green Gap. *Advanced Materials*, **2018**, 30, e1801117	24	105
35	Dephasing and Quantum Beating of Excitons in Methylammonium Lead Iodide Perovskite Nanoplatelets. *ACS Photonics*, **2018**, 5, 648-654	6.3	26
34	Accelerated Carrier Relaxation through Reduced Coulomb Screening in Two-Dimensional Halide Perovskite Nanoplatelets. *ACS Nano*, **2018**, 12, 10151-10158	16.7	54
33	Von Vorl□ferpulvern zu CsPbX3-Perowskit-Nanodr□ten: Eintopfreaktion, Wachstumsmechanismus und gerichtete Selbstassemblierung. *Angewandte Chemie*, **2017**, 129, 14075-14080	3.6	22
32	From Precursor Powders to CsPbX Perovskite Nanowires: One-Pot Synthesis, Growth Mechanism, and Oriented Self-Assembly. *Angewandte Chemie - International Edition*, **2017**, 56, 13887-13892	16.4	189
31	Tracking the Source of Carbon Dot Photoluminescence: Aromatic Domains versus Molecular Fluorophores. *Nano Letters*, **2017**, 17, 7710-7716	11.5	160
30	Effect of nitrogen atom□positioning on the trade-off between emissive and photocatalytic properties of carbon dots. *Nature Communications*, **2017**, 8, 1401	17.4	152
29	Dilution-Induced Formation of Hybrid Perovskite Nanoplatelets. *ACS Nano*, **2016**, 10, 10936-10944	16.7	112
28	Tuning the Optical Properties of Perovskite Nanoplatelets through Composition and Thickness by Ligand-Assisted Exfoliation. *Advanced Materials*, **2016**, 28, 9478-9485	24	213
27	Colloidal lead halide perovskite nanocrystals: synthesis, optical properties and applications. *NPG Asia Materials*, **2016**, 8, e328-e328	10.3	304
26	Optical Nanoparticle Sorting Elucidates Synthesis of Plasmonic Nanotriangles. *ACS Nano*, **2016**, 10, 3614-21	16.7	35
25	Exploring the Optical Nonlinearities of Plasmon-Exciton Hybrid Resonances in Coupled Colloidal Nanostructures. *Journal of Physical Chemistry C*, **2016**, 120, 12226-12233	3.8	18
24	Highly Luminescent Cesium Lead Halide Perovskite Nanocrystals with Tunable Composition and Thickness by Ultrasonication. *Angewandte Chemie - International Edition*, **2016**, 55, 13887-13892	16.4	466
23	Starke Lumineszenz in Nanokristallen aus Caesiumbleihalogenid- Perowskit mit durchstimmbarer Zusammensetzung und Dicke mittels Ultraschalldispersion. *Angewandte Chemie*, **2016**, 128, 14091-14096	3.6	48
22	Carbon Dots: A Unique Fluorescent Cocktail of Polycyclic Aromatic Hydrocarbons. *Nano Letters*, **2015**, 15, 6030-5	11.5	308
21	Quantum Size Effect in Organometal Halide Perovskite Nanoplatelets. *Nano Letters*, **2015**, 15, 6521-7	11.5	629
20	An Optically Controlled Microscale Elevator Using Plasmonic Janus Particles. *ACS Photonics*, **2015**, 2, 491-496	6.3	43

19	Optical trapping and manipulation of plasmonic nanoparticles: fundamentals, applications, and perspectives. *Nanoscale*, **2014**, 6, 4458-74	7.7	92
18	Nanoparticles heat through light localization. *Nano Letters*, **2014**, 14, 4640-5	11.5	320
17	Sub-100nm gold nanomatryoshkas improve photo-thermal therapy efficacy in large and highly aggressive triple negative breast tumors. *Journal of Controlled Release*, **2014**, 191, 90-97	11.7	71
16	Au nanomatryoshkas as efficient near-infrared photothermal transducers for cancer treatment: benchmarking against nanoshells. *ACS Nano*, **2014**, 8, 6372-81	16.7	283
15	Three-dimensional plasmonic nanoclusters. *Nano Letters*, **2013**, 13, 4399-403	11.5	148
14	Solar vapor generation enabled by nanoparticles. *ACS Nano*, **2013**, 7, 42-9	16.7	882
13	Shrink-to-fit Plasmonic Nanostructures. *Advanced Optical Materials*, **2013**, 1, 123-127	8.1	16
12	Embedding plasmonic nanostructure diodes enhances hot electron emission. *Nano Letters*, **2013**, 13, 1687-92	11.5	244
11	Near-field mediated plexcitonic coupling and giant Rabi splitting in individual metallic dimers. *Nano Letters*, **2013**, 13, 3281-6	11.5	365
10	Externally modulated theranostic nanoparticles. *Translational Cancer Research*, **2013**, 2, 292-308	0.3	16
9	Membrane composition of jetted lipid vesicles: a Raman spectroscopy study. *Journal of Biophotonics*, **2012**, 5, 40-6	3.1	24
8	Optical force stamping lithography. *Nano Letters*, **2011**, 11, 5066-70	11.5	77
7	Single-step injection of gold nanoparticles through phospholipid membranes. *ACS Nano*, **2011**, 5, 3585-90	16.7	70
6	Laser printing single gold nanoparticles. *Nano Letters*, **2010**, 10, 4794-8	11.5	130
5	Controlling loading and optical properties of gold nanoparticles on liposome membranes. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2009**, 342, 92-96	5.1	32
4	Controlled nanometric phase transitions of phospholipid membranes by plasmonic heating of single gold nanoparticles. *Nano Letters*, **2009**, 9, 2903-8	11.5	124
3	Surface-state related luminescence in ZnO nanocrystals. *Journal of Applied Physics*, **2007**, 101, 073506	2.5	104
2	The influence of waveguide modes on stimulated emission from ZnO nanorods. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2006**, 3, 3557-3560		2

1	Doubly Stabilized Perovskite Nanocrystal Luminescence Downconverters. *Advanced Optical Materials*,2102791	8.1	0