Alexander S Urban

List of Publications by Year
in descending order

61 papers	9,617 citations	101543 36 h-index	144013 57 g-index
62 all docs	62 docs citations	62 times ranked	12957 citing authors

#	Article	IF	Citations
1	Dark and Bright Excitons in Halide Perovskite Nanoplatelets. Advanced Science, 2022, 9, e2103013.	11.2	36
2	Electronâ€"Hole Binding Governs Carrier Transport in Halide Perovskite Nanocrystal Thin Films. ACS Nano, 2022, 16, 6317-6324.	14.6	3
3	Doubly Stabilized Perovskite Nanocrystal Luminescence Downconverters. Advanced Optical Materials, 2022, 10, .	7.3	1
4	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.	3.1	27
5	How Excitonâ€"Phonon Coupling Impacts Photoluminescence in Halide Perovskite Nanoplatelets. Journal of Physical Chemistry Letters, 2021, 12, 11371-11377.	4.6	26
6	Elucidating the performance limits of perovskite nanocrystal light emitting diodes. Journal of Luminescence, 2020, 220, 116939.	3.1	19
7	Thickness-Dependence of Excitonâ€"Exciton Annihilation in Halide Perovskite Nanoplatelets. Journal of Physical Chemistry Letters, 2020, 11, 5361-5366.	4.6	23
8	Nonradiative Energy Transfer between Thickness-Controlled Halide Perovskite Nanoplatelets. ACS Energy Letters, 2020, 5, 1380-1385.	17.4	48
9	Polymer Nanoreactors Shield Perovskite Nanocrystals from Degradation. Nano Letters, 2019, 19, 4928-4933.	9.1	57
10	Real-Time Electron and Hole Transport Dynamics in Halide Perovskite Nanowires. Nano Letters, 2019, 19, 8701-8707.	9.1	14
11	Ru(TAP)32+ uses multivalent binding to accelerate and constrain photo-adduct formation on DNA. Chemical Communications, 2019, 55, 8764-8767.	4.1	8
12	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.	17.4	115
13	Tuning the optical bandgap in layered hybrid perovskites through variation of alkyl chain length. APL Materials, 2019, 7, .	5.1	43
14	Metal Halide Perovskite Nanocrystals: Synthesis, Post-Synthesis Modifications, and Their Optical Properties. Chemical Reviews, 2019, 119, 3296-3348.	47.7	1,181
15	Fast Electron and Slow Hole Relaxation in InP-Based Colloidal Quantum Dots. ACS Nano, 2019, 13, 14408-14415.	14.6	25
16	Strong Quantum Confinement Effects and Chiral Excitons in Bio-Inspired ZnOâ€"Amino Acid Cocrystals. Journal of Physical Chemistry C, 2018, 122, 6348-6356.	3.1	13
17	Resonantly enhanced multiple exciton generation through below-band-gap multi-photon absorption in perovskite nanocrystals. Nature Communications, 2018, 9, 1518.	12.8	71
18	Preferential Orientation of Crystals Induced by Incorporation of Organic Ligands in Mixedâ€Dimensional Hybrid Perovskite Films. Advanced Optical Materials, 2018, 6, 1701311.	7.3	28

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19	Dephasing and Quantum Beating of Excitons in Methylammonium Lead Iodide Perovskite Nanoplatelets. ACS Photonics, 2018, 5, 648-654.	6.6	37
20	Accelerated Carrier Relaxation through Reduced Coulomb Screening in Two-Dimensional Halide Perovskite Nanoplatelets. ACS Nano, 2018, 12, 10151-10158.	14.6	89
21	Light-emitting electrochemical cells based on inorganic metal halide perovskite nanocrystals. Journal Physics D: Applied Physics, 2018, 51, 334001.	2.8	32
22	Boosting Tunable Blue Luminescence of Halide Perovskite Nanoplatelets through Postsynthetic Surface Trap Repair. Nano Letters, 2018, 18, 5231-5238.	9.1	382
23	Spontaneous Selfâ€Assembly of Perovskite Nanocrystals into Electronically Coupled Supercrystals: Toward Filling the Green Gap. Advanced Materials, 2018, 30, e1801117.	21.0	163
24	Advances in Quantumâ€Confined Perovskite Nanocrystals for Optoelectronics. Advanced Energy Materials, 2017, 7, 1700267.	19.5	176
25	Von VorlÃ¤uferpulvern zu CsPbX₃â€Perowskitâ€NanodrÃ¤hten: Eintopfreaktion, Wachstumsmechanismus und gerichtete Selbstassemblierung. Angewandte Chemie, 2017, 129, 14075-14080.	2.0	24
26	From Precursor Powders to CsPbX₃ Perovskite Nanowires: Oneâ€Pot Synthesis, Growth Mechanism, and Oriented Selfâ€Assembly. Angewandte Chemie - International Edition, 2017, 56, 13887-13892.	13.8	249
27	Tracking the Source of Carbon Dot Photoluminescence: Aromatic Domains versus Molecular Fluorophores. Nano Letters, 2017, 17, 7710-7716.	9.1	236
28	Effect of nitrogen atomÂpositioning on the trade-off between emissive and photocatalytic properties of carbon dots. Nature Communications, 2017, 8, 1401.	12.8	208
29	Linear and nonlinear optics of hybrid plexitonic nanosystems. , 2017, , .		1
30	Strong coupling effects in hybrid plexitonic systems. , 2017, , .		0
31	Perovskite nanocrystals for light-emitting and energy harvesting applications (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5		0
32	Exploring the Optical Nonlinearities of Plasmon-Exciton Hybrid Resonances in Coupled Colloidal Nanostructures. Journal of Physical Chemistry C, 2016, 120, 12226-12233.	3.1	25
33	Highly Luminescent Cesium Lead Halide Perovskite Nanocrystals with Tunable Composition and Thickness by Ultrasonication. Angewandte Chemie - International Edition, 2016, 55, 13887-13892.	13.8	615
34	Starke Lumineszenz in Nanokristallen aus Caesiumbleihalogenidâ€•Perowskit mit durchstimmbarer Zusammensetzung und Dicke mittels Ultraschalldispersion. Angewandte Chemie, 2016, 128, 14091-14096.	2.0	54
35	Dilution-Induced Formation of Hybrid Perovskite Nanoplatelets. ACS Nano, 2016, 10, 10936-10944.	14.6	130
36	Tuning the Optical Properties of Perovskite Nanoplatelets through Composition and Thickness by Ligandâ€Assisted Exfoliation. Advanced Materials, 2016, 28, 9478-9485.	21.0	276

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37	Colloidal lead halide perovskite nanocrystals: synthesis, optical properties and applications. NPG Asia Materials, 2016, 8, e328-e328.	7.9	385
38	Optical Nanoparticle Sorting Elucidates Synthesis of Plasmonic Nanotriangles. ACS Nano, 2016, 10, 3614-3621.	14.6	39
39	An Optically Controlled Microscale Elevator Using Plasmonic Janus Particles. ACS Photonics, 2015, 2, 491-496.	6.6	62
40	Carbon Dots: A Unique Fluorescent Cocktail of Polycyclic Aromatic Hydrocarbons. Nano Letters, 2015, 15, 6030-6035.	9.1	369
41	Quantum Size Effect in Organometal Halide Perovskite Nanoplatelets. Nano Letters, 2015, 15, 6521-6527.	9.1	785
42	Optical trapping and manipulation of plasmonic nanoparticles: fundamentals, applications, and perspectives. Nanoscale, 2014, 6, 4458.	5.6	122
43	Nanoparticles Heat through Light Localization. Nano Letters, 2014, 14, 4640-4645.	9.1	379
44	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.	9.9	79
45	Au Nanomatryoshkas as Efficient Near-Infrared Photothermal Transducers for Cancer Treatment: Benchmarking against Nanoshells. ACS Nano, 2014, 8, 6372-6381.	14.6	334
46	Three-Dimensional Plasmonic Nanoclusters. Nano Letters, 2013, 13, 4399-4403.	9.1	168
47	Solar Vapor Generation Enabled by Nanoparticles. ACS Nano, 2013, 7, 42-49.	14.6	1,053
48	Shrinkâ€toâ€fit Plasmonic Nanostructures. Advanced Optical Materials, 2013, 1, 123-127.	7.3	19
49	Embedding Plasmonic Nanostructure Diodes Enhances Hot Electron Emission. Nano Letters, 2013, 13, 1687-1692.	9.1	283
50	Near-Field Mediated Plexcitonic Coupling and Giant Rabi Splitting in Individual Metallic Dimers. Nano Letters, 2013, 13, 3281-3286.	9.1	445
51	Externally modulated theranostic nanoparticles. Translational Cancer Research, 2013, 2, 292-308.	1.0	24
52	Parallel Laser Printing of Nanoparticles. , 2012, , .		0
53	Membrane composition of jetted lipid vesicles: a Raman spectroscopy study. Journal of Biophotonics, 2012, 5, 40-46.	2.3	29
54	Optical Force Stamping Lithography. Nano Letters, 2011, 11, 5066-5070.	9.1	83

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55	Single-Step Injection of Gold Nanoparticles through Phospholipid Membranes. ACS Nano, 2011, 5, 3585-3590.	14.6	82
56	Laser shooting single gold nanoparticles - a novel lithographic strategy. , 2011, , .		1
57	Laser Printing Single Gold Nanoparticles. Nano Letters, 2010, 10, 4794-4798.	9.1	151
58	Controlling loading and optical properties of gold nanoparticles on liposome membranes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 342, 92-96.	4.7	34
59	Controlled Nanometric Phase Transitions of Phospholipid Membranes by Plasmonic Heating of Single Gold Nanoparticles. Nano Letters, 2009, 9, 2903-2908.	9.1	138
60	Surface-state related luminescence in ZnO nanocrystals. Journal of Applied Physics, 2007, 101, 073506.	2.5	112
61	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.	0.8	2