Ibrahim Dursun

List of Publications by Year
in descending order

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37 papers	7,746 citations	270111 25 h-index	466096 32 g-index
37 all docs	37 docs citations	37 times ranked	10855 citing authors

#	Article	IF	Citations
1	High-quality bulk hybrid perovskite single crystals within minutes by inverse temperature crystallization. Nature Communications, 2015, 6, 7586.	5.8	1,478
2	Formamidinium Lead Halide Perovskite Crystals with Unprecedented Long Carrier Dynamics and Diffusion Length. ACS Energy Letters, 2016, 1, 32-37.	8.8	752
3	Bidentate Ligand-Passivated CsPbI₃ Perovskite Nanocrystals for Stable Near-Unity Photoluminescence Quantum Yield and Efficient Red Light-Emitting Diodes. Journal of the American Chemical Society, 2018, 140, 562-565.	6.6	745
4	Planar-integrated single-crystalline perovskite photodetectors. Nature Communications, 2015, 6, 8724.	5.8	617
5	Pure Cs₄PbBr₆: Highly Luminescent Zero-Dimensional Perovskite Solids. ACS Energy Letters, 2016, 1, 840-845.	8.8	481
6	Air-Stable Surface-Passivated Perovskite Quantum Dots for Ultra-Robust, Single- and Two-Photon-Induced Amplified Spontaneous Emission. Journal of Physical Chemistry Letters, 2015, 6, 5027-5033.	2.1	466
7	Inorganic Lead Halide Perovskite Single Crystals: Phaseâ€Selective Lowâ€Temperature Growth, Carrier Transport Properties, and Selfâ€Powered Photodetection. Advanced Optical Materials, 2017, 5, 1600704.	3.6	362
8	Heterovalent Dopant Incorporation for Bandgap and Type Engineering of Perovskite Crystals. Journal of Physical Chemistry Letters, 2016, 7, 295-301.	2.1	332
9	Zero-Dimensional Cs₄PbBr₆ Perovskite Nanocrystals. Journal of Physical Chemistry Letters, 2017, 8, 961-965.	2.1	299
10	Perovskite Photodetectors Operating in Both Narrowband and Broadband Regimes. Advanced Materials, 2016, 28, 8144-8149.	11.1	260
11	High-speed colour-converting photodetector with all-inorganic CsPbBr3 perovskite nanocrystals for ultraviolet light communication. Light: Science and Applications, 2019, 8, 94.	7.7	225
12	Perovskite Nanocrystals as a Color Converter for Visible Light Communication. ACS Photonics, 2016, 3, 1150-1156.	3.2	221
13	Inside Perovskites: Quantum Luminescence from Bulk Cs₄PbBr₆ Single Crystals. Chemistry of Materials, 2017, 29, 7108-7113.	3.2	200
14	Molecular behavior of zero-dimensional perovskites. Science Advances, 2017, 3, e1701793.	4.7	187
15	The Role of Surface Tension in the Crystallization of Metal Halide Perovskites. ACS Energy Letters, 2017, 2, 1782-1788.	8.8	155
16	Thermochromic Perovskite Inks for Reversible Smart Window Applications. Chemistry of Materials, 2017, 29, 3367-3370.	3.2	130
17	CsPb₂Br₅ Single Crystals: Synthesis and Characterization. ChemSusChem, 2017, 10, 3746-3749.	3.6	130
18	The recombination mechanisms leading to amplified spontaneous emission at the true-green wavelength in CH3NH3PbBr3 perovskites. Applied Physics Letters, 2015, 106, .	1.5	126

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19	Optical constants of CH_3NH_3PbBr_3 perovskite thin films measured by spectroscopic ellipsometry. Optics Express, 2016, 24, 16586.	1.7	108
20	Enhanced Etching, Surface Damage Recovery, and Submicron Patterning of Hybrid Perovskites using a Chemically Gas-Assisted Focused-Ion Beam for Subwavelength Grating Photonic Applications. Journal of Physical Chemistry Letters, 2016, 7, 137-142.	2.1	80
21	Water-Induced Dimensionality Reduction in Metal-Halide Perovskites. Journal of Physical Chemistry C, 2018, 122, 14128-14134.	1.5	78
22	Efficient Photon Recycling and Radiation Trapping in Cesium Lead Halide Perovskite Waveguides. ACS Energy Letters, 2018, 3, 1492-1498.	8.8	70
23	Why are Hot Holes Easier to Extract than Hot Electrons from Methylammonium Lead Iodide Perovskite?. Advanced Energy Materials, 2019, 9, 1900084.	10.2	54
24	Focused-ion beam patterning of organolead trihalide perovskite for subwavelength grating nanophotonic applications. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2015, 33, .	0.6	49
25	Halogen Vacancies Enable Ligandâ€Assisted Selfâ€Assembly of Perovskite Quantum Dots into Nanowires. Angewandte Chemie - International Edition, 2019, 58, 16077-16081.	7.2	49
26	Perovskite-Based Artificial Multiple Quantum Wells. Nano Letters, 2019, 19, 3535-3542.	4.5	27
27	Halogen Vacancies Enable Ligandâ€Assisted Selfâ€Assembly of Perovskite Quantum Dots into Nanowires. Angewandte Chemie, 2019, 131, 16223-16227.	1.6	16
28	Reduced ion migration and enhanced photoresponse in cuboid crystals of methylammonium lead iodide perovskite. Journal Physics D: Applied Physics, 2019, 52, 054001.	1.3	14
29	Reducing Spontaneous Orientational Polarization via Semiconductor Dilution Improves OLED Efficiency and Lifetime. Physical Review Applied, 2022, 17, .	1.5	12
30	Exciton diffusion exceeding 1â€‰Âµm: run, exciton, run!. Light: Science and Applications, 2021, 10, 39.	7.7	9
31	Domainâ€Sizeâ€Dependent Residual Stress Governs the Phaseâ€Transition and Photoluminescence Behavior of Methylammonium Lead Iodide. Advanced Functional Materials, 2021, 31, 2008088.	7.8	8
32	8â€2: Invited Paper: A New Generation of Luminescent Materials Based on Lowâ€Dimensional Perovskites. Digest of Technical Papers SID International Symposium, 2017, 48, 83-86.	0.1	2
33	Perovskite nanocrystals as color converters for record-breaking visible light communications. SPIE Newsroom, 0, , .	0.1	2
34	High-Speed Ultraviolet-C Photodetector Based on Frequency Down-Converting CsPbBr3 Perovskite Nanocrystals on Silicon Platform. , 2019, , .		1
35	Blue Superluminescent Diodes with GHz Bandwidth Exciting Perovskite Nanocrystals for High CRI White Lighting and High-Speed VLC. , 2019, , .		1
36	Hybrid perovskites: Approaches towards light-emitting devices. , 2016, , .		0

#	Article	IF	Citations
37	Efficient photon recycling and radiation trapping in cesium lead halide perovskite waveguides (Conference Presentation). , 2019, , .		0