

Ibrahim Dursun

List of Publications by Year in descending order

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Version: 2024-02-01

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	Reducing Spontaneous Orientational Polarization via Semiconductor Dilution Improves OLED Efficiency and Lifetime. <i>Physical Review Applied</i> , 2022, 17, .	1.5	12
2	Domain-Size-Dependent Residual Stress Governs the Phase-Transition and Photoluminescence Behavior of Methylammonium Lead Iodide. <i>Advanced Functional Materials</i> , 2021, 31, 2008088.	7.8	8
3	Exciton diffusion exceeding 1 μm : run, exciton, run!. <i>Light: Science and Applications</i> , 2021, 10, 39.	7.7	9
4	High-speed colour-converting photodetector with all-inorganic CsPbBr ₃ perovskite nanocrystals for ultraviolet light communication. <i>Light: Science and Applications</i> , 2019, 8, 94.	7.7	225
5	Halogen Vacancies Enable Ligand-Assisted Self-Assembly of Perovskite Quantum Dots into Nanowires. <i>Angewandte Chemie</i> , 2019, 131, 16223-16227.	1.6	16
6	Halogen Vacancies Enable Ligand-Assisted Self-Assembly of Perovskite Quantum Dots into Nanowires. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16077-16081.	7.2	49
7	Why are Hot Holes Easier to Extract than Hot Electrons from Methylammonium Lead Iodide Perovskite?. <i>Advanced Energy Materials</i> , 2019, 9, 1900084.	10.2	54
8	Perovskite-Based Artificial Multiple Quantum Wells. <i>Nano Letters</i> , 2019, 19, 3535-3542.	4.5	27
9	High-Speed Ultraviolet-C Photodetector Based on Frequency Down-Converting CsPbBr ₃ Perovskite Nanocrystals on Silicon Platform. , 2019, , .		1
10	Reduced ion migration and enhanced photoresponse in cuboid crystals of methylammonium lead iodide perovskite. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 054001.	1.3	14
11	Blue Superluminescent Diodes with GHz Bandwidth Exciting Perovskite Nanocrystals for High CRI White Lighting and High-Speed VLC. , 2019, , .		1
12	Efficient photon recycling and radiation trapping in cesium lead halide perovskite waveguides (Conference Presentation). , 2019, , .		0
13	Water-Induced Dimensionality Reduction in Metal-Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2018, 122, 14128-14134.	1.5	78
14	Bidentate Ligand-Passivated CsPbI ₃ Perovskite Nanocrystals for Stable Near-Unity Photoluminescence Quantum Yield and Efficient Red Light-Emitting Diodes. <i>Journal of the American Chemical Society</i> , 2018, 140, 562-565.	6.6	745
15	Efficient Photon Recycling and Radiation Trapping in Cesium Lead Halide Perovskite Waveguides. <i>ACS Energy Letters</i> , 2018, 3, 1492-1498.	8.8	70
16	Zero-Dimensional Cs ₄ PbBr ₆ Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 961-965.	2.1	299
17	Invited Paper: A New Generation of Luminescent Materials Based on Low-Dimensional Perovskites. <i>Digest of Technical Papers SID International Symposium</i> , 2017, 48, 83-86.	0.1	2
18	Thermochromic Perovskite Inks for Reversible Smart Window Applications. <i>Chemistry of Materials</i> , 2017, 29, 3367-3370.	3.2	130

#	ARTICLE	IF	CITATIONS
19	Inorganic Lead Halide Perovskite Single Crystals: Phase-Selective Low-Temperature Growth, Carrier Transport Properties, and Self-Powered Photodetection. <i>Advanced Optical Materials</i> , 2017, 5, 1600704.	3.6	362
20	Inside Perovskites: Quantum Luminescence from Bulk Cs ₄ PbBr ₆ Single Crystals. <i>Chemistry of Materials</i> , 2017, 29, 7108-7113.	3.2	200
21	CsPb ₂ Br ₅ Single Crystals: Synthesis and Characterization. <i>ChemSusChem</i> , 2017, 10, 3746-3749.	3.6	130
22	Molecular behavior of zero-dimensional perovskites. <i>Science Advances</i> , 2017, 3, e1701793.	4.7	187
23	The Role of Surface Tension in the Crystallization of Metal Halide Perovskites. <i>ACS Energy Letters</i> , 2017, 2, 1782-1788.	8.8	155
24	Formamidinium Lead Halide Perovskite Crystals with Unprecedented Long Carrier Dynamics and Diffusion Length. <i>ACS Energy Letters</i> , 2016, 1, 32-37.	8.8	752
25	Pure Cs ₄ PbBr ₆ : Highly Luminescent Zero-Dimensional Perovskite Solids. <i>ACS Energy Letters</i> , 2016, 1, 840-845.	8.8	481
26	Hybrid perovskites: Approaches towards light-emitting devices. , 2016, , .		0
27	Optical constants of CH ₃ NH ₃ PbBr ₃ perovskite thin films measured by spectroscopic ellipsometry. <i>Optics Express</i> , 2016, 24, 16586.	1.7	108
28	Perovskite Photodetectors Operating in Both Narrowband and Broadband Regimes. <i>Advanced Materials</i> , 2016, 28, 8144-8149.	11.1	260
29	Perovskite Nanocrystals as a Color Converter for Visible Light Communication. <i>ACS Photonics</i> , 2016, 3, 1150-1156.	3.2	221
30	Enhanced Etching, Surface Damage Recovery, and Submicron Patterning of Hybrid Perovskites using a Chemically Gas-Assisted Focused-Ion Beam for Subwavelength Grating Photonic Applications. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 137-142.	2.1	80
31	Heterovalent Dopant Incorporation for Bandgap and Type Engineering of Perovskite Crystals. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 295-301.	2.1	332
32	Planar-integrated single-crystalline perovskite photodetectors. <i>Nature Communications</i> , 2015, 6, 8724.	5.8	617
33	The recombination mechanisms leading to amplified spontaneous emission at the true-green wavelength in CH ₃ NH ₃ PbBr ₃ perovskites. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	126
34	High-quality bulk hybrid perovskite single crystals within minutes by inverse temperature crystallization. <i>Nature Communications</i> , 2015, 6, 7586.	5.8	1,478
35	Focused-ion beam patterning of organolead trihalide perovskite for subwavelength grating nanophotonic applications. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2015, 33, .	0.6	49
36	Air-Stable Surface-Passivated Perovskite Quantum Dots for Ultra-Robust, Single- and Two-Photon-Induced Amplified Spontaneous Emission. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 5027-5033.	2.1	466

#	ARTICLE	IF	CITATIONS
37	Perovskite nanocrystals as color converters for record-breaking visible light communications. SPIE Newsroom, 0, , .	0.1	2