

# Ibrahim Dursun

## List of Publications by Citations

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32  
papers

5,873  
citations

25  
h-index

37  
g-index

37  
ext. papers

6,859  
ext. citations

11  
avg, IF

5.45  
L-index

#	Paper	IF	Citations
32	High-quality bulk hybrid perovskite single crystals within minutes by inverse temperature crystallization. <i>Nature Communications</i> , <b>2015</b> , 6, 7586	17.4	1164
31	Formamidinium Lead Halide Perovskite Crystals with Unprecedented Long Carrier Dynamics and Diffusion Length. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 32-37	20.1	551
30	Bidentate Ligand-Passivated CsPbI Perovskite Nanocrystals for Stable Near-Unity Photoluminescence Quantum Yield and Efficient Red Light-Emitting Diodes. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 562-565	16.4	537
29	Planar-integrated single-crystalline perovskite photodetectors. <i>Nature Communications</i> , <b>2015</b> , 6, 8724	17.4	497
28	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> , <b>2015</b> , 6, 5027-33	6.4	398
27	Pure Cs <sub>4</sub> PbBr <sub>6</sub> : Highly Luminescent Zero-Dimensional Perovskite Solids. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 840-845	20.1	367
26	Inorganic Lead Halide Perovskite Single Crystals: Phase-Selective Low-Temperature Growth, Carrier Transport Properties, and Self-Powered Photodetection. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1600704	8.1	277
25	Heterovalent Dopant Incorporation for Bandgap and Type Engineering of Perovskite Crystals. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 295-301	6.4	268
24	Zero-Dimensional CsPbBr Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 961-965	6.4	229
23	Perovskite Photodetectors Operating in Both Narrowband and Broadband Regimes. <i>Advanced Materials</i> , <b>2016</b> , 28, 8144-8149	24	206
22	Perovskite Nanocrystals as a Color Converter for Visible Light Communication. <i>ACS Photonics</i> , <b>2016</b> , 3, 1150-1156	6.3	171
21	Inside Perovskites: Quantum Luminescence from Bulk Cs <sub>4</sub> PbBr <sub>6</sub> Single Crystals. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 7108-7113	9.6	160
20	Molecular behavior of zero-dimensional perovskites. <i>Science Advances</i> , <b>2017</b> , 3, e1701793	14.3	137
19	High-speed colour-converting photodetector with all-inorganic CsPbBr perovskite nanocrystals for ultraviolet light communication. <i>Light: Science and Applications</i> , <b>2019</b> , 8, 94	16.7	125
18	The recombination mechanisms leading to amplified spontaneous emission at the true-green wavelength in CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> perovskites. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 081902	3.4	106
17	The Role of Surface Tension in the Crystallization of Metal Halide Perovskites. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 1782-1788	20.1	103
16	CsPb Br Single Crystals: Synthesis and Characterization. <i>ChemSusChem</i> , <b>2017</b> , 10, 3746-3749	8.3	93

15	Thermochromic Perovskite Inks for Reversible Smart Window Applications. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 3367-3370	9.6	89
14	Optical constants of CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> perovskite thin films measured by spectroscopic ellipsometry. <i>Optics Express</i> , <b>2016</b> , 24, 16586-94	3.3	76
13	Water-Induced Dimensionality Reduction in Metal-Halide Perovskites. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 14128-14134	3.8	56
12	Efficient Photon Recycling and Radiation Trapping in Cesium Lead Halide Perovskite Waveguides. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1492-1498	20.1	56
11	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> , <b>2016</b> , 7, 137-42	6.4	55
10	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> , <b>2015</b> , 33, 051207	1.3	37
9	Halogen Vacancies Enable Ligand-Assisted Self-Assembly of Perovskite Quantum Dots into Nanowires. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 16077-16081	16.4	32
8	Why are Hot Holes Easier to Extract than Hot Electrons from Methylammonium Lead Iodide Perovskite?. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900084	21.8	30
7	Perovskite-Based Artificial Multiple Quantum Wells. <i>Nano Letters</i> , <b>2019</b> , 19, 3535-3542	11.5	17
6	Halogen Vacancies Enable Ligand-Assisted Self-Assembly of Perovskite Quantum Dots into Nanowires. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 16223-16227	3.6	13
5	Reduced ion migration and enhanced photoresponse in cuboid crystals of methylammonium lead iodide perovskite. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 054001	3	11
4	Domain-Size-Dependent Residual Stress Governs the Phase-Transition and Photoluminescence Behavior of Methylammonium Lead Iodide. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2008088	15.6	3
3	8-2: Invited Paper: A New Generation of Luminescent Materials Based on Low-Dimensional Perovskites. <i>Digest of Technical Papers SID International Symposium</i> , <b>2017</b> , 48, 83-86	0.5	1
2	Blue Superluminescent Diodes with GHz Bandwidth Exciting Perovskite Nanocrystals for High CRI White Lighting and High-Speed VLC <b>2019</b> ,		1
1	High-Speed Ultraviolet-C Photodetector Based on Frequency Down-Converting CsPbBr <sub>3</sub> Perovskite Nanocrystals on Silicon Platform <b>2019</b> ,		1