

# Ahmed L Abdelhady

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46  
papers

6,235  
citations

29  
h-index

46  
g-index

46  
ext. papers

7,083  
ext. citations

12.2  
avg, IF

5.77  
L-index

#	Paper	IF	Citations
46	Bismuth Stabilizes the $\beta$ Phase of Formamidinium Lead Iodide Perovskite Single Crystals <b>2022</b> , 4, 707-712		1
45	Mixed Dimethylammonium/Methylammonium Lead Halide Perovskite Single Crystals for Improved Structural Stability and Enhanced Photodetection. <i>Advanced Materials</i> , <b>2021</b> , e2106160	24	6
44	Understanding Thermal and A-Thermal Trapping Processes in Lead Halide Perovskites Towards Effective Radiation Detection Schemes. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2104879	15.6	7
43	Guidelines for the characterization of metal halide nanocrystals. <i>Trends in Chemistry</i> , <b>2021</b> , 3, 631-644	14.8	3
42	Photoluminescence enhancement and high accuracy patterning of lead halide perovskite single crystals by MeV ion beam irradiation. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 9923-9930	7.1	7
41	Permanent Lattice Compression of Lead-Halide Perovskite for Persistently Enhanced Optoelectronic Properties. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 642-649	20.1	21
40	Impact of local structure on halogen ion migration in layered methylammonium copper halide memory devices. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 17516-17526	13	7
39	Green-Emitting Powders of Zero-Dimensional CsPbBr: Delineating the Intricacies of the Synthesis and the Origin of Photoluminescence. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 7761-7769	9.6	47
38	Fully Inorganic Ruddlesden-Popper Double Cl-I and Triple Cl-Br-I Lead Halide Perovskite Nanocrystals. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 2182-2190	9.6	49
37	O as a molecular probe for nonradiative surface defects in CsPbBr perovskite nanostructures and single crystals. <i>Nanoscale</i> , <b>2019</b> , 11, 7613-7623	7.7	26
36	Transition from Positive to Negative Photoconductance in Doped Hybrid Perovskite Semiconductors. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900865	8.1	27
35	Fine Structural Details Matter: A Lesson from Seven-Layered 2D Hybrid Perovskites. <i>Chem</i> , <b>2019</b> , 5, 2513-2514	11.4	1
34	Zero-Dimensional Cesium Lead Halides: History, Properties, and Challenges. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 2326-2337	6.4	158
33	Colloidal CsX (X = Cl, Br, I) Nanocrystals and Their Transformation to CsPbX Nanocrystals by Cation Exchange. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 79-83	9.6	43
32	Shape-Pure, Nearly Monodispersed CsPbBr Nanocubes Prepared Using Secondary Aliphatic Amines. <i>Nano Letters</i> , <b>2018</b> , 18, 7822-7831	11.5	88
31	Time-Dependent Mechanical Response of APbX (A = Cs, CH <sub>3</sub> NH <sub>2</sub> ; X = I, Br) Single Crystals. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606556	24	42
30	Engineering Interfacial Charge Transfer in CsPbBr Perovskite Nanocrystals by Heterovalent Doping. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 731-737	16.4	323

29	Bright-Emitting Perovskite Films by Large-Scale Synthesis and Photoinduced Solid-State Transformation of CsPbBr Nanoplatelets. <i>ACS Nano</i> , <b>2017</b> , 11, 10206-10213	16.7	82
28	High-Purity Hybrid Organolead Halide Perovskite Nanoparticles Obtained by Pulsed-Laser Irradiation in Liquid. <i>ChemPhysChem</i> , <b>2017</b> , 18, 1047-1054	3.2	19
27	Surface Electronic Structure of Hybrid Organo Lead Bromide Perovskite Single Crystals. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 21710-21715	3.8	52
26	Perovskite Photodetectors Operating in Both Narrowband and Broadband Regimes. <i>Advanced Materials</i> , <b>2016</b> , 28, 8144-8149	24	206
25	Surface Restructuring of Hybrid Perovskite Crystals. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 1119-1126	20.1	115
24	-Methylformamide as a Source of Methylammonium Ions in the Synthesis of Lead Halide Perovskite Nanocrystals and Bulk Crystals. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 1042-1048	20.1	45
23	Perovskite Nanocrystals as a Color Converter for Visible Light Communication. <i>ACS Photonics</i> , <b>2016</b> , 3, 1150-1156	6.3	171
22	Robust and air-stable sandwiched organo-lead halide perovskites for photodetector applications. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 2545-2552	7.1	46
21	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
20	Fast and Sensitive Solution-Processed Visible-Blind Perovskite UV Photodetectors. <i>Advanced Materials</i> , <b>2016</b> , 28, 7264-8	24	192
19	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
18	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
17	Colloidal Quantum Dot Solar Cells. <i>Chemical Reviews</i> , <b>2015</b> , 115, 12732-63	68.1	812
16	Retrograde solubility of formamidinium and methylammonium lead halide perovskites enabling rapid single crystal growth. <i>Chemical Communications</i> , <b>2015</b> , 51, 17658-61	5.8	266
15	CH <sub>3</sub> NH <sub>3</sub> PbCl <sub>3</sub> Single Crystals: Inverse Temperature Crystallization and Visible-Blind UV-Photodetector. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 3781-6	6.4	507
14	Planar-integrated single-crystalline perovskite photodetectors. <i>Nature Communications</i> , <b>2015</b> , 6, 8724	17.4	497
13	Direct Femtosecond Observation of Charge Carrier Recombination in Ternary Semiconductor Nanocrystals: The Effect of Composition and Shelling. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 3439-3446	2.8	36
12	Determination of Internal Structures of Heterogeneous Nanocrystals Using Variable-Energy Photoemission Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 15534-15540	3.8	15

11	Colloidal Synthesis of ZnS, CdS and Zn x Cd1-x S Nanoparticles from Zinc and Cadmium Thiobiuret Complexes. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2014</b> , 24, 226-240	3.2	17
10	Very narrow In2S3 nanorods and nanowires from a single source precursor. <i>Materials Letters</i> , <b>2013</b> , 99, 138-141	3.3	10
9	Selective excitation of Eu3+ in the core of small NaGdF4 nanocrystals. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 801-807	7.1	57
8	Passivation of lanthanide surface sites in sub-10nm NaYF(4):Eu(3+) nanocrystals. <i>Journal of Nanoparticle Research</i> , <b>2012</b> , 14, 1228	2.3	31
7	iso-Propylthiobiuret-copper and indium complexes as novel precursors for colloidal synthesis of CuInS2 nanoparticles. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 3781		26
6	High-throughput route to Cu2S nanoparticles from single molecular precursor. <i>Materials Science in Semiconductor Processing</i> , <b>2012</b> , 15, 218-221	4.3	5
5	Deposition of iron sulfide thin films by AACVD from single source precursors. <i>Journal of Crystal Growth</i> , <b>2012</b> , 346, 106-112	1.6	29
4	Nickel and Iron Sulfide Nanoparticles from Thiobiurets. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 2253-2259	3.5	47
3	New routes to copper sulfide nanostructures and thin films. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 17888		65
2	Flow reactor synthesis of CdSe, CdS, CdSe/CdS and CdSeS nanoparticles from single molecular precursor(s). <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 18768		44
1	Methylammonium Governs Structural and Optical Properties of Hybrid Lead Halide Perovskites through Dynamic Hydrogen Bonding. <i>Chemistry of Materials</i> ,	9.6	4