

Ahmed L Abdelhady

List of Publications by Citations

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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 | High-quality bulk hybrid perovskite single crystals within minutes by inverse temperature crystallization. <i>Nature Communications</i> , 2015 , 6, 7586 | 17.4 | 1164 |
| 45 | Colloidal Quantum Dot Solar Cells. <i>Chemical Reviews</i> , 2015 , 115, 12732-63 | 68.1 | 812 |
| 44 | Formamidinium Lead Halide Perovskite Crystals with Unprecedented Long Carrier Dynamics and Diffusion Length. <i>ACS Energy Letters</i> , 2016 , 1, 32-37 | 20.1 | 551 |
| 43 | CH ₃ NH ₃ PbCl ₃ Single Crystals: Inverse Temperature Crystallization and Visible-Blind UV-Photodetector. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 3781-6 | 6.4 | 507 |
| 42 | Planar-integrated single-crystalline perovskite photodetectors. <i>Nature Communications</i> , 2015 , 6, 8724 | 17.4 | 497 |
| 41 | Engineering Interfacial Charge Transfer in CsPbBr Perovskite Nanocrystals by Heterovalent Doping. <i>Journal of the American Chemical Society</i> , 2017 , 139, 731-737 | 16.4 | 323 |
| 40 | Heterovalent Dopant Incorporation for Bandgap and Type Engineering of Perovskite Crystals. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 295-301 | 6.4 | 268 |
| 39 | Retrograde solubility of formamidinium and methylammonium lead halide perovskites enabling rapid single crystal growth. <i>Chemical Communications</i> , 2015 , 51, 17658-61 | 5.8 | 266 |
| 38 | Perovskite Photodetectors Operating in Both Narrowband and Broadband Regimes. <i>Advanced Materials</i> , 2016 , 28, 8144-8149 | 24 | 206 |
| 37 | Fast and Sensitive Solution-Processed Visible-Blind Perovskite UV Photodetectors. <i>Advanced Materials</i> , 2016 , 28, 7264-8 | 24 | 192 |
| 36 | Perovskite Nanocrystals as a Color Converter for Visible Light Communication. <i>ACS Photonics</i> , 2016 , 3, 1150-1156 | 6.3 | 171 |
| 35 | Zero-Dimensional Cesium Lead Halides: History, Properties, and Challenges. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 2326-2337 | 6.4 | 158 |
| 34 | Surface Restructuring of Hybrid Perovskite Crystals. <i>ACS Energy Letters</i> , 2016 , 1, 1119-1126 | 20.1 | 115 |
| 33 | Shape-Pure, Nearly Monodispersed CsPbBr Nanocubes Prepared Using Secondary Aliphatic Amines. <i>Nano Letters</i> , 2018 , 18, 7822-7831 | 11.5 | 88 |
| 32 | Bright-Emitting Perovskite Films by Large-Scale Synthesis and Photoinduced Solid-State Transformation of CsPbBr Nanoplatelets. <i>ACS Nano</i> , 2017 , 11, 10206-10213 | 16.7 | 82 |
| 31 | New routes to copper sulfide nanostructures and thin films. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17888 | | 65 |
| 30 | Selective excitation of Eu ³⁺ in the core of small [NaGdF ₄] nanocrystals. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 801-807 | 7.1 | 57 |

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|----|---|------|----|
| 29 | Surface Electronic Structure of Hybrid Organo Lead Bromide Perovskite Single Crystals. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 21710-21715 | 3.8 | 52 |
| 28 | Fully Inorganic Ruddlesden-Popper Double Cl-I and Triple Cl-Br-I Lead Halide Perovskite Nanocrystals. <i>Chemistry of Materials</i> , 2019 , 31, 2182-2190 | 9.6 | 49 |
| 27 | Green-Emitting Powders of Zero-Dimensional CsPbBr: Delineating the Intricacies of the Synthesis and the Origin of Photoluminescence. <i>Chemistry of Materials</i> , 2019 , 31, 7761-7769 | 9.6 | 47 |
| 26 | Nickel and Iron Sulfide Nanoparticles from Thiobiurets. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 2253-2259 | 3.2 | 47 |
| 25 | Robust and air-stable sandwiched organo-lead halide perovskites for photodetector applications. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 2545-2552 | 7.1 | 46 |
| 24 | -Methylformamide as a Source of Methylammonium Ions in the Synthesis of Lead Halide Perovskite Nanocrystals and Bulk Crystals. <i>ACS Energy Letters</i> , 2016 , 1, 1042-1048 | 20.1 | 45 |
| 23 | Flow reactor synthesis of CdSe, CdS, CdSe/CdS and CdSeS nanoparticles from single molecular precursor(s). <i>Journal of Materials Chemistry</i> , 2011 , 21, 18768 | | 44 |
| 22 | Colloidal CsX (X = Cl, Br, I) Nanocrystals and Their Transformation to CsPbX Nanocrystals by Cation Exchange. <i>Chemistry of Materials</i> , 2018 , 30, 79-83 | 9.6 | 43 |
| 21 | Time-Dependent Mechanical Response of APbX (A = Cs, CH ₃ NH ₂ ; X = I, Br) Single Crystals. <i>Advanced Materials</i> , 2017 , 29, 1606556 | 24 | 42 |
| 20 | Direct Femtosecond Observation of Charge Carrier Recombination in Ternary Semiconductor Nanocrystals: The Effect of Composition and Shelling. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 3439-3446 | 2.8 | 36 |
| 19 | Passivation of lanthanide surface sites in sub-10 nm NaYF ₄ :Eu(3+) nanocrystals. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1228 | 2.3 | 31 |
| 18 | Deposition of iron sulfide thin films by AACVD from single source precursors. <i>Journal of Crystal Growth</i> , 2012 , 346, 106-112 | 1.6 | 29 |
| 17 | Transition from Positive to Negative Photoconductance in Doped Hybrid Perovskite Semiconductors. <i>Advanced Optical Materials</i> , 2019 , 7, 1900865 | 8.1 | 27 |
| 16 | O as a molecular probe for nonradiative surface defects in CsPbBr perovskite nanostructures and single crystals. <i>Nanoscale</i> , 2019 , 11, 7613-7623 | 7.7 | 26 |
| 15 | iso-Propylthiobiuret-copper and indium complexes as novel precursors for colloidal synthesis of CuInS ₂ nanoparticles. <i>Journal of Materials Chemistry</i> , 2012 , 22, 3781 | | 26 |
| 14 | Permanent Lattice Compression of Lead-Halide Perovskite for Persistently Enhanced Optoelectronic Properties. <i>ACS Energy Letters</i> , 2020 , 5, 642-649 | 20.1 | 21 |
| 13 | High-Purity Hybrid Organolead Halide Perovskite Nanoparticles Obtained by Pulsed-Laser Irradiation in Liquid. <i>ChemPhysChem</i> , 2017 , 18, 1047-1054 | 3.2 | 19 |
| 12 | Colloidal Synthesis of ZnS, CdS and Zn _x Cd _{1-x} S Nanoparticles from Zinc and Cadmium Thiobiuret Complexes. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2014 , 24, 226-240 | 3.2 | 17 |

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|----|--|------|----|
| 11 | Determination of Internal Structures of Heterogeneous Nanocrystals Using Variable-Energy Photoemission Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 15534-15540 | 3.8 | 15 |
| 10 | Very narrow In ₂ S ₃ nanorods and nanowires from a single source precursor. <i>Materials Letters</i> , 2013 , 99, 138-141 | 3.3 | 10 |
| 9 | Photoluminescence enhancement and high accuracy patterning of lead halide perovskite single crystals by MeV ion beam irradiation. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 9923-9930 | 7.1 | 7 |
| 8 | Impact of local structure on halogen ion migration in layered methylammonium copper halide memory devices. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 17516-17526 | 13 | 7 |
| 7 | Understanding Thermal and A-Thermal Trapping Processes in Lead Halide Perovskites Towards Effective Radiation Detection Schemes. <i>Advanced Functional Materials</i> , 2021 , 31, 2104879 | 15.6 | 7 |
| 6 | Mixed Dimethylammonium/Methylammonium Lead Halide Perovskite Single Crystals for Improved Structural Stability and Enhanced Photodetection. <i>Advanced Materials</i> , 2021 , e2106160 | 24 | 6 |
| 5 | High-throughput route to Cu ₂ S nanoparticles from single molecular precursor. <i>Materials Science in Semiconductor Processing</i> , 2012 , 15, 218-221 | 4.3 | 5 |
| 4 | Methylammonium Governs Structural and Optical Properties of Hybrid Lead Halide Perovskites through Dynamic Hydrogen Bonding. <i>Chemistry of Materials</i> , | 9.6 | 4 |
| 3 | Guidelines for the characterization of metal halide nanocrystals. <i>Trends in Chemistry</i> , 2021 , 3, 631-644 | 14.8 | 3 |
| 2 | Fine Structural Details Matter: A Lesson from Seven-Layered 2D Hybrid Perovskites. <i>Chem</i> , 2019 , 5, 2513-2514 | 14 | 1 |
| 1 | Bismuth Stabilizes the β Phase of Formamidinium Lead Iodide Perovskite Single Crystals 2022 , 4, 707-712 | | 1 |