

Quinten A Akkerman

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6558690/publications.pdf>

Version: 2024-02-01

38
papers

8,956
citations

147801

31
h-index

345221

36
g-index

41
all docs

41
docs citations

41
times ranked

8481
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning the Optical Properties of Cesium Lead Halide Perovskite Nanocrystals by Anion Exchange Reactions. <i>Journal of the American Chemical Society</i> , 2015, 137, 10276-10281.	13.7	1,765
2	Genesis, challenges and opportunities for colloidal lead halide perovskite nanocrystals. <i>Nature Materials</i> , 2018, 17, 394-405.	27.5	1,632
3	Solution Synthesis Approach to Colloidal Cesium Lead Halide Perovskite Nanoplatelets with Monolayer-Level Thickness Control. <i>Journal of the American Chemical Society</i> , 2016, 138, 1010-1016.	13.7	747
4	Strongly emissive perovskite nanocrystal inks for high-voltage solar cells. <i>Nature Energy</i> , 2017, 2, .	39.5	544
5	Nearly Monodisperse Insulator Cs ₄ PbX ₆ (X = Cl, Br, I) Nanocrystals, Their Mixed Halide Compositions, and Their Transformation into CsPbX ₃ Nanocrystals. <i>Nano Letters</i> , 2017, 17, 1924-1930.	9.1	488
6	Role of Acid-Base Equilibria in the Size, Shape, and Phase Control of Cesium Lead Bromide Nanocrystals. <i>ACS Nano</i> , 2018, 12, 1704-1711.	14.6	395
7	X-ray Lithography on Perovskite Nanocrystals Films: From Patterning with Anion-Exchange Reactions to Enhanced Stability in Air and Water. <i>ACS Nano</i> , 2016, 10, 1224-1230.	14.6	320
8	Fluorescent Alloy CsPb _x Mn _{1-x} I ₃ Perovskite Nanocrystals with High Structural and Optical Stability. <i>ACS Energy Letters</i> , 2017, 2, 2183-2186.	17.4	305
9	<i>In Situ</i> Transmission Electron Microscopy Study of Electron Beam-Induced Transformations in Colloidal Cesium Lead Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2017, 11, 2124-2132.	14.6	246
10	What Defines a Halide Perovskite?. <i>ACS Energy Letters</i> , 2020, 5, 604-610.	17.4	228
11	Doped Halide Perovskite Nanocrystals for Reabsorption-Free Luminescent Solar Concentrators. <i>ACS Energy Letters</i> , 2017, 2, 2368-2377.	17.4	224
12	Zero-Dimensional Cesium Lead Halides: History, Properties, and Challenges. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2326-2337.	4.6	210
13	Postsynthesis Transformation of Insulating Cs ₄ PbBr ₆ Nanocrystals into Bright Perovskite CsPbBr ₃ through Physical and Chemical Extraction of CsBr. <i>ACS Energy Letters</i> , 2017, 2, 2445-2448.	17.4	177
14	From Binary Cu ₂ S to Ternary Cu ₂ In ₂ S and Quaternary Cu ₂ In ₂ Zn ₂ S Nanocrystals with Tunable Composition <i>via</i> Partial Cation Exchange. <i>ACS Nano</i> , 2015, 9, 521-531.	14.6	173
15	Polymer-Free Films of Inorganic Halide Perovskite Nanocrystals as UV-to-White Color-Conversion Layers in LEDs. <i>Chemistry of Materials</i> , 2016, 28, 2902-2906.	6.7	152
16	Changing the Dimensionality of Cesium Lead Bromide Nanocrystals by Reversible Postsynthesis Transformations with Amines. <i>Chemistry of Materials</i> , 2017, 29, 4167-4171.	6.7	142
17	The Phosphine Oxide Route toward Lead Halide Perovskite Nanocrystals. <i>Journal of the American Chemical Society</i> , 2018, 140, 14878-14886.	13.7	136
18	Shape-Pure, Nearly Monodispersed CsPbBr ₃ Nanocubes Prepared Using Secondary Aliphatic Amines. <i>Nano Letters</i> , 2018, 18, 7822-7831.	9.1	132

#	ARTICLE	IF	CITATIONS
19	Role of Nonradiative Defects and Environmental Oxygen on Exciton Recombination Processes in CsPbBr ₃ Perovskite Nanocrystals. Nano Letters, 2017, 17, 3844-3853.	9.1	101
20	Ultrafast THz Probe of Photoinduced Polarons in Lead-Halide Perovskites. Physical Review Letters, 2019, 122, 166601.	7.8	98
21	Trap-Mediated Two-Step Sensitization of Manganese Dopants in Perovskite Nanocrystals. ACS Energy Letters, 2019, 4, 85-93.	17.4	92
22	Self-Assembly of Colloidal Hexagonal Bipyramid- and Bifrustum-Shaped ZnS Nanocrystals into Two-Dimensional Superstructures. Nano Letters, 2014, 14, 1032-1037.	9.1	78
23	Solution-Processable Ultrathin Size- and Shape-Controlled Colloidal Cu ₂ S Nanosheets. Chemistry of Materials, 2015, 27, 283-291.	6.7	76
24	Nonlinear Carrier Interactions in Lead Halide Perovskites and the Role of Defects. Journal of the American Chemical Society, 2016, 138, 13604-13611.	13.7	73
25	Green-Emitting Powders of Zero-Dimensional Cs ₄ PbBr ₆ : Delineating the Intricacies of the Synthesis and the Origin of Photoluminescence. Chemistry of Materials, 2019, 31, 7761-7769.	6.7	62
26	Low-Temperature Electron Beam-Induced Transformations of Cesium Lead Halide Perovskite Nanocrystals. ACS Omega, 2017, 2, 5660-5665.	3.5	60
27	Fully Inorganic Ruddlesden-Popper Double Cl ⁻ and Triple Cl ⁻ Br ⁻ Lead Halide Perovskite Nanocrystals. Chemistry of Materials, 2019, 31, 2182-2190.	6.7	60
28	Reversible Concentration-Dependent Photoluminescence Quenching and Change of Emission Color in CsPbBr ₃ Nanowires and Nanoplatelets. Journal of Physical Chemistry Letters, 2017, 8, 2725-2729.	4.6	50
29	Ultrathin Orthorhombic PbS Nanosheets. Chemistry of Materials, 2019, 31, 8145-8153.	6.7	37
30	Molecular Iodine for a General Synthesis of Binary and Ternary Inorganic and Hybrid Organic-Inorganic Iodide Nanocrystals. Chemistry of Materials, 2018, 30, 6915-6921.	6.7	36
31	Stability of perovskite materials and devices. Materials Today, 2022, 58, 275-296.	14.2	35
32	Nanocrystals of Lead Chalcogenides: A Series of Kinetically Trapped Metastable Nanostructures. Journal of the American Chemical Society, 2020, 142, 10198-10211.	13.7	34
33	Anisotropic 2D Cu ₂ X ₂ Se Nanocrystals from Dodecaneselenol and Their Conversion to CdSe and CuInSe ₂ Nanoparticles. Chemistry of Materials, 2018, 30, 3836-3846.	6.7	25
34	Exploiting the Lability of Metal Halide Perovskites for Doping Semiconductor Nanocomposites. ACS Energy Letters, 2021, 6, 581-587.	17.4	12
35	Effects of Oxygen Plasma on the Chemical, Light-Emitting, and Electrical-Transport Properties of Inorganic and Hybrid Lead Bromide Perovskite Nanocrystal Films. ACS Applied Nano Materials, 2018, 1, 5396-5400.	5.0	8
36	Nano- and microscale apertures in metal films fabricated by colloidal lithography with perovskite nanocrystals. Nanotechnology, 2020, 31, 185304.	2.6	2

#	ARTICLE	IF	CITATIONS
37	Energy Harvesting with Redesigned Colloidal Metal Halide, Chalcogenide and Chalcohalide Nanocrystals. , 0, , .		0
38	Reaching ultimate perovskite quantum dot optical properties with a new synthetic approach. , 0, , .		0