Elke Debroye

List of Publications by Year
in descending order

#	Article	IF	Citations
1	State of the Art and Prospects for Halide Perovskite Nanocrystals. ACS Nano, 2021, 15, 10775-10981.	14.6	705
2	Thermal unequilibrium of strained black CsPbI ₃ thin films. Science, 2019, 365, 679-684.	12.6	444
3	It's a trap! On the nature of localised states and charge trapping in lead halide perovskites. Materials Horizons, 2020, 7, 397-410.	12.2	345
4	Degradation of Methylammonium Lead Iodide Perovskite Structures through Light and Electron Beam Driven Ion Migration. Journal of Physical Chemistry Letters, 2016, 7, 561-566.	4.6	234
5	Efficient and Selective Photocatalytic Oxidation of Benzylic Alcohols with Hybrid Organicâ€"Inorganic Perovskite Materials. ACS Energy Letters, 2018, 3, 755-759.	17.4	222
6	Giant Electronâ€"Phonon Coupling and Deep Conduction Band Resonance in Metal Halide Double Perovskite. ACS Nano, 2018, 12, 8081-8090.	14.6	190
7	Photophysical Pathways in Highly Sensitive Cs₂AgBiBr₆ Doubleâ€Perovskite Singleâ€Crystal Xâ€Ray Detectors. Advanced Materials, 2018, 30, e1804450.	21.0	173
8	Towards polymetallic lanthanide complexes as dual contrast agents for magnetic resonance and optical imaging. Chemical Society Reviews, 2014, 43, 8178-8192.	38.1	141
9	C(sp³)â€"H Bond Activation by Perovskite Solar Photocatalyst Cell. ACS Energy Letters, 2019, 4, 203-208.	17.4	114
10	The 2018 correlative microscopy techniques roadmap. Journal Physics D: Applied Physics, 2018, 51, 443001.	2.8	99
11	â€œSupertrapâ€•at Work: Extremely Efficient Nonradiative Recombination Channels in MAPbI₃ Perovskites Revealed by Luminescence Super-Resolution Imaging and Spectroscopy. ACS Nano, 2017, 11, 5391-5404.	14.6	92
12	Tracking Structural Phase Transitions in Leadâ€Halide Perovskites by Means of Thermal Expansion. Advanced Materials, 2019, 31, e1900521.	21.0	88
13	Challenges and Opportunities for CsPbBr₃ Perovskites in Low- and High-Energy Radiation Detection. ACS Energy Letters, 2021, 6, 1290-1314.	17.4	80
14	Photoluminescence Blinking of Single-Crystal Methylammonium Lead Iodide Perovskite Nanorods Induced by Surface Traps. ACS Omega, 2016, 1, 148-159.	3.5	76
15	Tuning the Structural and Optoelectronic Properties of Cs₂AgBiBr₆ Doubleâ€Perovskite Single Crystals through Alkaliâ€Metal Substitution. Advanced Materials, 2020, 32, e2001878.	21.0	72
16	Role of Electronâ€"Phonon Coupling in the Thermal Evolution of Bulk Rashba-Like Spin-Split Lead Halide Perovskites Exhibiting Dual-Band Photoluminescence. ACS Energy Letters, 2019, 4, 2205-2212.	17.4	58
17	Facet-Dependent Photoreduction on Single ZnO Crystals. Journal of Physical Chemistry Letters, 2017, 8, 340-346.	4.6	42
18	Highly Mobile Large Polarons in Black Phase CsPbI₃. ACS Energy Letters, 2021, 6, 568-573.	17.4	40

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19	A new metallostar complex based on an aluminum(iii) 8-hydroxyquinoline core as a potential bimodal contrast agent. Dalton Transactions, 2012, 41, 10549.	3.3	30
20	Micellar self-assemblies of gadolinium(iii)/europium(iii) amphiphilic complexes as model contrast agents for bimodal imaging. Dalton Transactions, 2014, 43, 3589.	3.3	30
21	Third-Order Nonlinear Optical Properties and Saturation of Two-Photon Absorption in Lead-Free Double Perovskite Nanocrystals under Femtosecond Excitation. ACS Photonics, 2021, 8, 3365-3374.	6.6	30
22	Lanthanide(III) Complexes of Diethylenetriaminepentaacetic Acid (DTPA)â€“Bisamide Derivatives as Potential Agents for Bimodal (Optical/Magnetic Resonance) Imaging. European Journal of Inorganic Chemistry, 2013, 2013, 2629-2639.	2.0	28
23	Imaging Heterogeneously Distributed Photoâ€Active Traps in Perovskite Single Crystals. Advanced Materials, 2018, 30, e1705494.	21.0	28
24	Incorporation of Cesium Lead Halide Perovskites into g-C₃N₄ for Photocatalytic CO₂ Reduction. ACS Omega, 2020, 5, 24495-24503.	3.5	28
25	Effect of the substitution position (2, 3 or 8) on the spectroscopic and photophysical properties of BODIPY dyes with a phenyl, styryl or phenylethynyl group. RSC Advances, 2016, 6, 102899-102913.	3.6	27
26	Single-Step Synthesis of Dual Phase Bright Blue-Green Emitting Lead Halide Perovskite Nanocrystal Thin Films. Chemistry of Materials, 2019, 31, 6824-6832.	6.7	26
27	Efficient Photocatalytic CO2 Reduction with MIL-100(Fe)-CsPbBr3 Composites. Catalysts, 2020, 10, 1352.	3.5	23
28	Dysprosium Complexes and Their Micelles as Potential Bimodal Agents for Magnetic Resonance and Optical Imaging. Chemistry - A European Journal, 2013, 19, 16019-16028.	3.3	22
29	Controlled Synthesis of a Novel Heteropolymetallic Complex with Selectively Incorporated Lanthanide(III) Ions. Inorganic Chemistry, 2014, 53, 1257-1259.	4.0	22
30	Highly mobile hot holes in Cs ₂ AgBiBr ₆ double perovskite. Science Advances, 2021, 7, eabj9066.	10.3	21
31	Rationalizing Acid Zeolite Performance on the Nanoscale by Correlative Fluorescence and Electron Microscopy. ACS Catalysis, 2017, 7, 5234-5242.	11.2	19
32	Dual-Channel Charge Carrier Transfer in CsPbX₃ Perovskite/W₁₈O₄₉ Composites for Selective Photocatalytic Benzyl Alcohol Oxidation. ACS Applied Energy Materials, 2021, 4, 3460-3468.	5.1	19
33	Flexible Metal Halide Perovskite Photodetector Arrays via Photolithography and Dry Liftâ€Off Patterning. Advanced Engineering Materials, 2022, 24, 2100930.	3.5	19
34	Facile Morphologyâ€Controlled Synthesis of Organolead Iodide Perovskite Nanocrystals Using Binary Capping Agents. ChemNanoMat, 2017, 3, 223-227.	2.8	18
35	Two-dimensional perovskites with alternating cations in the interlayer space for stable light-emitting diodes. Nanophotonics, 2021, 10, 2145-2156.	6.0	17
36	Light- and Temperature-Modulated Magneto-Transport in Organicâ€“Inorganic Lead Halide Perovskites. ACS Energy Letters, 2018, 3, 39-45.	17.4	15

#	ARTICLE	IF	CITATIONS
37	Assessing Photocatalytic Activity at the Nanoscale Using Integrated Optical and Electron Microscopy. Particle and Particle Systems Characterization, 2016, 33, 412-418.	2.3	14
38	All-Evaporated, All-Inorganic CsPbI₃ Perovskite-Based Devices for Broad-Band Photodetector and Solar Cell Applications. ACS Applied Electronic Materials, 2021, 3, 3023-3033.	4.3	12
39	Colloidal FAPbBr₃ perovskite nanocrystals for light emission: what's going on?. Journal of Materials Chemistry C, 2022, 10, 13437-13461.	5.5	10
40	Perovskite-Based Devices: Photophysical Pathways in Highly Sensitive Cs2 AgBiBr6 Double-Perovskite Single-Crystal X-Ray Detectors (Adv. Mater. 46/2018). Advanced Materials, 2018, 30, 1870353.	21.0	8
41	Experimental Evidence of Chlorideâ€Induced Trap Passivation in Lead Halide Perovskites through Single Particle Blinking Studies. Advanced Optical Materials, 2021, 9, 2002240.	7.3	8
42	Linear assembly of lead bromide-based nanoparticles inside lead(<scp>ii</scp>) polymers prepared by mixing the precursors of both the nanoparticle and the polymer. Chemical Communications, 2019, 55, 2968-2971.	4.1	6
43	Luminescence and Relaxometric Properties of Heteropolymetallic Metallostar Complexes with Selectively Incorporated Lanthanide(III) Ions. European Journal of Inorganic Chemistry, 2015, 2015, 4207-4216.	2.0	4
44	Spatially and Temporally Resolved Heterogeneities in a Miscible Polymer Blend. ACS Omega, 2020, 5, 23931-23939.	3.5	4
45	Tandem Nenitzescu Reaction/Nucleophilic Aromatic Substitution to Form Novel Pyrido Fused Indole Frameworks. European Journal of Organic Chemistry, 2021, 2021, 4865-4875.	2.4	4
46	Single Perovskite or Double Perovskite: Whatâ€™s the Difference?. , 0, , .		1
47	Optimized colloidal growth of hexagonal close-packed Ag microparticles and their stability under catalytic conditions. New Journal of Chemistry, 0, , .	2.8	1
48	Sunny Days for Perovskite Optoelectronics. ChemNanoMat, 2019, 5, 251-252.	2.8	0
49	The power of single molecule microscopy: from nanoparticle investigations to microbiome analysis. , 2018, , .		0