Elke Debroye

List of Publications by Year in descending order

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49 papers	3,709 citations	236925 25 h-index	233421 45 g-index
50 all docs	50 docs citations	50 times ranked	5347 citing authors

#	Article	IF	Citations
1	Flexible Metal Halide Perovskite Photodetector Arrays via Photolithography and Dry Liftâ€Off Patterning. Advanced Engineering Materials, 2022, 24, 2100930.	3.5	19
2	Colloidal FAPbBr₃ perovskite nanocrystals for light emission: what's going on?. Journal of Materials Chemistry C, 2022, 10, 13437-13461.	5.5	10
3	Challenges and Opportunities for CsPbBr₃ Perovskites in Low- and High-Energy Radiation Detection. ACS Energy Letters, 2021, 6, 1290-1314.	17.4	80
4	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
5	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
6	State of the Art and Prospects for Halide Perovskite Nanocrystals. ACS Nano, 2021, 15, 10775-10981.	14.6	705
7	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
8	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
9	Highly Mobile Large Polarons in Black Phase CsPbI₃. ACS Energy Letters, 2021, 6, 568-573.	17.4	40
10	Two-dimensional perovskites with alternating cations in the interlayer space for stable light-emitting diodes. Nanophotonics, 2021, 10, 2145-2156.	6.0	17
11	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
12	Highly mobile hot holes in Cs ₂ AgBiBr ₆ double perovskite. Science Advances, 2021, 7, eabj9066.	10.3	21
13	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
14	Efficient Photocatalytic CO2 Reduction with MIL-100(Fe)-CsPbBr3 Composites. Catalysts, 2020, 10, 1352.	3.5	23
15	Incorporation of Cesium Lead Halide Perovskites into g-C₃N₄ for Photocatalytic CO₂ Reduction. ACS Omega, 2020, 5, 24495-24503.	3.5	28
16	Tuning the Structural and Optoelectronic Properties of Cs₂AgBiBr₆ Doubleâ€Perovskite Single Crystals through Alkaliâ€Metal Substitution. Advanced Materials, 2020, 32, e2001878.	21.0	72
17	Spatially and Temporally Resolved Heterogeneities in a Miscible Polymer Blend. ACS Omega, 2020, 5, 23931-23939.	3.5	4
18	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

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19	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
20	Thermal unequilibrium of strained black CsPbI ₃ thin films. Science, 2019, 365, 679-684.	12.6	444
21	Tracking Structural Phase Transitions in Leadâ€Halide Perovskites by Means of Thermal Expansion. Advanced Materials, 2019, 31, e1900521.	21.0	88
22	Sunny Days for Perovskite Optoelectronics. ChemNanoMat, 2019, 5, 251-252.	2.8	0
23	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
24	C(sp³)â€“H Bond Activation by Perovskite Solar Photocatalyst Cell. ACS Energy Letters, 2019, 4, 203-208.	17.4	114
25	Efficient and Selective Photocatalytic Oxidation of Benzylic Alcohols with Hybrid Organicâ€“Inorganic Perovskite Materials. ACS Energy Letters, 2018, 3, 755-759.	17.4	222
26	Imaging Heterogeneously Distributed Photoâ€Active Traps in Perovskite Single Crystals. Advanced Materials, 2018, 30, e1705494.	21.0	28
27	Light- and Temperature-Modulated Magneto-Transport in Organicâ€“Inorganic Lead Halide Perovskites. ACS Energy Letters, 2018, 3, 39-45.	17.4	15
28	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
29	Photophysical Pathways in Highly Sensitive Cs₂AgBiBr₆ Doubleâ€Perovskite Singleâ€Crystal Xâ€Ray Detectors. Advanced Materials, 2018, 30, e1804450.	21.0	173
30	The 2018 correlative microscopy techniques roadmap. Journal Physics D: Applied Physics, 2018, 51, 443001.	2.8	99
31	Giant Electronâ€“Phonon Coupling and Deep Conduction Band Resonance in Metal Halide Double Perovskite. ACS Nano, 2018, 12, 8081-8090.	14.6	190
32	The power of single molecule microscopy: from nanoparticle investigations to microbiome analysis. , 2018, , .		0
33	Facile Morphologyâ€Controlled Synthesis of Organolead Iodide Perovskite Nanocrystals Using Binary Capping Agents. ChemNanoMat, 2017, 3, 223-227.	2.8	18
34	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
35	Rationalizing Acid Zeolite Performance on the Nanoscale by Correlative Fluorescence and Electron Microscopy. ACS Catalysis, 2017, 7, 5234-5242.	11.2	19
36	Facet-Dependent Photoreduction on Single ZnO Crystals. Journal of Physical Chemistry Letters, 2017, 8, 340-346.	4.6	42

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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	Photoluminescence Blinking of Single-Crystal Methylammonium Lead Iodide Perovskite Nanorods Induced by Surface Traps. ACS Omega, 2016, 1, 148-159.	3.5	76
39	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
40	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
41	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
42	Controlled Synthesis of a Novel Heteropolymetallic Complex with Selectively Incorporated Lanthanide(III) Ions. Inorganic Chemistry, 2014, 53, 1257-1259.	4.0	22
43	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
44	Towards polymetallic lanthanide complexes as dual contrast agents for magnetic resonance and optical imaging. Chemical Society Reviews, 2014, 43, 8178-8192.	38.1	141
45	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
46	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
47	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
48	Single Perovskite or Double Perovskite: Whatâ€™s the Difference?. , 0, , .		1
49	Optimized colloidal growth of hexagonal close-packed Ag microparticles and their stability under catalytic conditions. New Journal of Chemistry, 0, , .	2.8	1