Mykhailo

List of Publications by Year in descending order

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		471509	552781
27	1,680	17	26
papers	citations	h-index	g-index

27	27	27	3453
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Detection of X-ray photons by solution-processed lead halide perovskites. Nature Photonics, 2015, 9, 444-449.	31.4	916
2	Hydrogenâ€Bonded Organic Semiconductors as Stable Photoelectrocatalysts for Efficient Hydrogen Peroxide Photosynthesis. Advanced Functional Materials, 2016, 26, 5248-5254.	14.9	115
3	Sensitive Direct Converting Xâ€Ray Detectors Utilizing Crystalline CsPbBr₃ Perovskite Films Fabricated via Scalable Melt Processing. Advanced Materials Interfaces, 2020, 7, 1901575.	3.7	83
4	Quasi-epitaxial Metal-Halide Perovskite Ligand Shells on PbS Nanocrystals. ACS Nano, 2017, 11, 1246-1256.	14.6	74
5	Cellular interfaces with hydrogen-bonded organic semiconductor hierarchical nanocrystals. Nature Communications, 2017, 8, 91.	12.8	51
6	Micron Thick Colloidal Quantum Dot Solids. Nano Letters, 2020, 20, 5284-5291.	9.1	47
7	A perspective on the bright future of metal halide perovskites for X-ray detection. Applied Physics Letters, 2019, 115, .	3.3	45
8	General Observation of Photocatalytic Oxygen Reduction to Hydrogen Peroxide by Organic Semiconductor Thin Films and Colloidal Crystals. ACS Applied Materials & Interfaces, 2018, 10, 13253-13257.	8.0	37
9	Pushing PbS/Metalâ€Halideâ€Perovskite Core/Epitaxialâ€Ligandâ€Shell Nanocrystal Photodetectors beyond 3 Âµm Wavelength. Advanced Functional Materials, 2019, 29, 1807964.	14.9	35
10	Enabling Ambipolar to Heavy n-Type Transport in PbS Quantum Dot Solids through Doping with Organic Molecules. ACS Applied Materials & Interfaces, 2017, 9, 18039-18045.	8.0	34
11	Fully Printed Infrared Photodetectors from PbS Nanocrystals with Perovskite Ligands. ACS Nano, 2019, 13, 2389-2397.	14.6	30
12	Selfâ€Healing Cs₃Bi₂Br₃I₆ Perovskite Wafers for Xâ€Ray Detection. Advanced Functional Materials, 2021, 31, 2102713.	14.9	29
13	Exfoliated CrPS 4 with Promising Photoconductivity. Small, 2020, 16, 1905924.	10.0	26
14	Revealing Trap States in Lead Sulphide Colloidal Quantum Dots by Photoinduced Absorption Spectroscopy. Advanced Electronic Materials, 2018, 4, 1700348.	5.1	25
15	Epitaxial Metal Halide Perovskites by Inkjetâ€Printing on Various Substrates. Advanced Functional Materials, 2020, 30, 2004612.	14.9	21
16	Broadening of Distribution of Trap States in PbS Quantum Dot Field-Effect Transistors with High-k Dielectrics. ACS Applied Materials & Interfaces, 2017, 9, 4719-4724.	8.0	20
17	Strainâ€Modulated Charge Transport in Flexible PbS Nanocrystal Fieldâ€Effect Transistors. Advanced Electronic Materials, 2017, 3, 1600360.	5.1	20
18	Looking beyond the Surface: The Band Gap of Bulk Methylammonium Lead Iodide. Nano Letters, 2020, 20, 3090-3097.	9.1	16

#	Article	IF	Citations
19	Effect of Ligand Treatment on the Tuning of Infrared Plasmonic Indium Tin Oxide Nanocrystal Electrochromic Devices. Advanced Engineering Materials, 2020, 22, 2000112.	3.5	15
20	Tunable doping in PbS nanocrystal field-effect transistors using surface molecular dipoles. APL Materials, 2016, 4, 116105.	5.1	10
21	Galvanic Exchange in Colloidal Metal/Metal-Oxide Core/Shell Nanocrystals. Journal of Physical Chemistry C, 2016, 120, 19848-19855.	3.1	9
22	Flexible Photocatalytic Electrode Using Graphene, Nonâ€noble Metal, and Organic Semiconductors for Hydrogen Evolution Reaction. Energy Technology, 2021, 9, 2100123.	3.8	8
23	Morphology-Controlled Organic Solar Cells Improved by a Nanohybrid System of Single Wall Carbon Nanotubes Sensitized by PbS Core/Perovskite Epitaxial Ligand Shell Quantum Dots. Solar Rrl, 2017, 1, 1700043.	5.8	7
24	Highly Stable Lasing from Solutionâ€Epitaxially Grown Formamidiniumâ€Leadâ€Bromide Microâ€Resonators. Advanced Optical Materials, 2022, 10, .	7.3	3
25	Perspectives of solution epitaxially grown defect tolerant lead-halide-perovskites and lead-chalcogenides. Applied Physics Letters, 2021, 119, .	3.3	2
26	Photocatalysis: Hydrogen-Bonded Organic Semiconductors as Stable Photoelectrocatalysts for Efficient Hydrogen Peroxide Photosynthesis (Adv. Funct. Mater. 29/2016). Advanced Functional Materials, 2016, 26, 5247-5247.	14.9	1
27	Photophysical and electronic properties of bismuth-perovskite shelled lead sulfide quantum dots. Journal of Chemical Physics, 2019, 151, 214702.	3.0	1