

Marina R Filip

List of Publications by Citations

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26

papers

3,875

citations

17

h-index

33

g-index

33

ext. papers

4,597

ext. citations

9.3

avg, IF

5.86

L-index

#	Paper	IF	Citations
26	Steric engineering of metal-halide perovskites with tunable optical band gaps. <i>Nature Communications</i> , 2014 , 5, 5757	17.4	605
25	Lead-Free Halide Double Perovskites via Heterovalent Substitution of Noble Metals. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 1254-9	6.4	567
24	CsInAgCl: A New Lead-Free Halide Double Perovskite with Direct Band Gap. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 772-778	6.4	494
23	Band Gaps of the Lead-Free Halide Double Perovskites Cs ₂ BiAgCl ₆ and Cs ₂ BiAgBr ₆ from Theory and Experiment. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 2579-85	6.4	395
22	Cubic or Orthorhombic? Revealing the Crystal Structure of Metastable Black-Phase CsPbI ₃ by Theory and Experiment. <i>ACS Energy Letters</i> , 2018 , 3, 1787-1794	20.1	292
21	Vibrational Properties of the Organic-Inorganic Halide Perovskite CH ₃ NH ₃ PbI ₃ from Theory and Experiment: Factor Group Analysis, First-Principles Calculations, and Low-Temperature Infrared Spectra. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 25703-25718	3.8	220
20	Confinement Effects in Low-Dimensional Lead Iodide Perovskite Hybrids. <i>Chemistry of Materials</i> , 2016 , 28, 4554-4562	9.6	203
19	Bimolecular recombination in methylammonium lead triiodide perovskite is an inverse absorption process. <i>Nature Communications</i> , 2018 , 9, 293	17.4	175
18	Computational Screening of Homovalent Lead Substitution in Organic-Inorganic Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 166-173	3.8	162
17	GW quasiparticle band structures of stibnite, antimonelite, bismuthinite, and guanajuatite. <i>Physical Review B</i> , 2013 , 87,	3.3	142
16	Solution-Processed Cesium Hexabromopalladate(IV), CsPdBr ₆ , for Optoelectronic Applications. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6030-6033	16.4	134
15	GW Band Structures and Carrier Effective Masses of CH ₃ NH ₃ PbI ₃ and Hypothetical Perovskites of the Type APbI ₃ : A = NH ₄ , PH ₄ , AsH ₄ , and SbH ₄ . <i>Journal of Physical Chemistry C</i> , 2015 , 119, 25209-25219	3.8	113
14	GW quasiparticle band gap of the hybrid organic-inorganic perovskite CH ₃ NH ₃ PbI ₃ : Effect of spin-orbit interaction, semicore electrons, and self-consistency. <i>Physical Review B</i> , 2014 , 90,	3.3	101
13	Phase Diagrams and Stability of Lead-Free Halide Double Perovskites Cs ₂ BB'X ₆ : B = Sb and Bi, B' = Cu, Ag, and Au, and X = Cl, Br, and I. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 158-170	3.8	91
12	The geometric blueprint of perovskites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 5397-5402	11.5	70
11	Carrier Diffusion Lengths Exceeding 1 μ m Despite Trap-Limited Transport in Halide Double Perovskites. <i>ACS Energy Letters</i> , 2020 , 5, 1337-1345	20.1	39
10	Excitons in one-dimensional van der Waals materials: Sb ₂ S ₃ nanoribbons. <i>Physical Review B</i> , 2015 , 92,	3.3	21

9	Directed assembly of layered perovskite heterostructures as single crystals. <i>Nature</i> , 2021 , 597, 355-359	50.4	12
8	Chemically Localized Resonant Excitons in Silver-Pnictogen Halide Double Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 2057-2063	6.4	11
7	Band gaps of crystalline solids from Wannier-localization-based optimal tuning of a screened range-separated hybrid functional. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	8
6	Hybrid Halide Perovskites: Fundamental Theory and Materials Design 2018 , 1-30		4
5	Phonon Screening of Excitons in Semiconductors: Halide Perovskites and Beyond. <i>Physical Review Letters</i> , 2021 , 127, 067401	7.4	4
4	Quantum limits to the electron field emission from tapered conductive sheets. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010 , 28, C2A64-C2A71	1.3	2
3	Hybrid Halide Perovskites: Fundamental Theory and Materials Design 2020 , 295-324		2
2	Optoelectronic Properties of Mixed Iodide-Bromide Perovskites from First-Principles Computational Modeling and Experiment.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 4184-4192	6.4	2
1	Electronic and field emission properties of two-dimensional nanotori. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011 , 29, 02B105	1.3	1