

Claudia Caddeo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

32
papers

723
citations

15
h-index

26
g-index

33
ext. papers

858
ext. citations

6.1
avg, IF

4.32
L-index

#	Paper	IF	Citations
32	Theoretical insight on PTB7:PC71BM, PTB7-th:PC71BM and Si-PCPDTBT:PC71BM interactions governing blend nanoscale morphology for efficient solar cells. <i>Nano Energy</i> , 2021 , 82, 105708	17.1	3
31	Fundamentals of tin iodide perovskites: a promising route to highly efficient, lead-free solar cells. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 11812-11826	13	12
30	Direct Correlation of Nanoscale Morphology and Device Performance to Study Photocurrent Generation in Donor-Enriched Phases of Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 28404-28415	9.5	3
29	Dielectric function of hybrid perovskites at finite temperature investigated by classical molecular dynamics. <i>Journal of Chemical Physics</i> , 2020 , 152, 104705	3.9	5
28	Ag/In lead-free double perovskites. <i>EcoMat</i> , 2020 , 2, e12017	9.4	12
27	The dominant role of surfaces in the hysteretic behavior of hybrid perovskites. <i>Nano Energy</i> , 2020 , 67, 104162	17.1	12
26	Donuts and Spin Vortices at the Fermi Surfaces of Hybrid Lead-Iodide CH ₃ NH ₃ PbI ₃ Perovskites. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 6753-6762	3.8	2
25	Photoacoustic Sensing of Trapped Fluids in Nanoporous Thin Films: Device Engineering and Sensing Scheme. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 27947-27954	9.5	16
24	Hydrophilicity and Water Contact Angle on Methylammonium Lead Iodide. <i>Advanced Materials Interfaces</i> , 2018 , 6, 1801173	4.6	13
23	Development of a Classical Interatomic Potential for MAPbBr ₃ . <i>Journal of Physical Chemistry C</i> , 2017 , 121, 3724-3733	3.8	19
22	Thermal boundary resistance from transient nanocalorimetry: A multiscale modeling approach. <i>Physical Review B</i> , 2017 , 95,	3.3	15
21	Bottom-Up Mechanical Nanometrology of Granular Ag Nanoparticles Thin Films. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 22434-22441	3.8	23
20	Collective Molecular Mechanisms in the CH ₃ NH ₃ PbI ₃ Dissolution by Liquid Water. <i>ACS Nano</i> , 2017 , 11, 9183-9190	16.1	49
19	Linking morphology to thermal conductivity in PEDOT: an atomistic investigation. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 494002	3	13
18	Photoluminescence, optical gain, and lasing threshold in CH ₃ NH ₃ PbI ₃ methylammonium lead-halide perovskites obtained by ab initio calculations. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 12758-12768	7.1	4
17	Modeling hybrid perovskites by molecular dynamics. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 043008	10.8	45
16	Bulk Structural and Electronic Properties at the Density Functional Theory and Post-Density Functional Theory Level of Calculation 2017 , 43-86		

15	Structure and Thermodynamic Properties of Hybrid Perovskites by Classical Molecular Dynamics 2017 , 1-42		
14	Thermally Activated Point Defect Diffusion in Methylammonium Lead Trihalide: Anisotropic and Ultrahigh Mobility of Iodine. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 2356-61	6.4	93
13	Temperature Evolution of Methylammonium Trihalide Vibrations at the Atomic Scale. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 529-35	6.4	66
12	Appealing Perspectives of Hybrid Lead Halide Perovskites as Thermoelectric Materials. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 28472-28479	3.8	49
11	Low electron-polar optical phonon scattering as a fundamental aspect of carrier mobility in methylammonium lead halide CH ₃ NH ₃ PbI ₃ perovskites. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 15352-62	3.6	68
10	Tuning the thermal conductivity of methylammonium lead halide by the molecular substructure. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 24318-24	3.6	41
9	The study of polythiophene/water interfaces by sum-frequency generation spectroscopy and molecular dynamics simulations. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 6429-6438	7.3	17
8	Pinpointing the Cause of Platinum Tipping on CdS Nanorods. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 22663-22668	3.8	2
7	Atomistic simulations of P(NDI2OD-T2) morphologies: from single chain to condensed phases. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 12556-65	3.4	16
6	Atomistic Investigation of the Solubility of 3-Alkylthiophene Polymers in Tetrahydrofuran Solvent. <i>Macromolecules</i> , 2013 , 46, 8003-8008	5.5	26
5	Optoelectronic properties of (ZnO) ₆₀ isomers. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 14293-8	3.6	13
4	Electronic Properties of Hybrid Zinc Oxide/Oligothiophene Nanostructures. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 8174-8180	3.8	13
3	Poly(3-hexylthiophene) Adhesion on Zinc Oxide Nanoneedles. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 16833-16837	3.8	18
2	Understanding the Helical Wrapping of Poly(3-hexylthiophene) on Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 21109-21113	3.8	52
1	Implementation of a Design of Experiments Methodology for the Prediction of Phototransistor Degradation in a Space Environment. <i>IEEE Transactions on Nuclear Science</i> , 2009 , 56, 2465-2472	1.7	2