Claudia Caddeo

List of Publications by Citations

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	Thermally Activated Point Defect Diffusion in Methylammonium Lead Trihalide: Anisotropic and Ultrahigh Mobility of Iodine. *Journal of Physical Chemistry Letters*, **2016**, 7, 2356-61	6.4	93
31	Low electron-polar optical phonon scattering as a fundamental aspect of carrier mobility in methylammonium lead halide CH3NH3PbI3 perovskites. *Physical Chemistry Chemical Physics*, **2016**, 18, 15352-62	3.6	68
30	Temperature Evolution of Methylammonium Trihalide Vibrations at the Atomic Scale. *Journal of Physical Chemistry Letters*, **2016**, 7, 529-35	6.4	66
29	Understanding the Helical Wrapping of Poly(3-hexylthiophene) on Carbon Nanotubes. *Journal of Physical Chemistry C*, **2010**, 114, 21109-21113	3.8	52
28	Collective Molecular Mechanisms in the CHNHPbI Dissolution by Liquid Water. *ACS Nano*, **2017**, 11, 9183-9190	13.7	49
27	Appealing Perspectives of Hybrid Lead Iodide Perovskites as Thermoelectric Materials. *Journal of Physical Chemistry C*, **2016**, 120, 28472-28479	3.8	49
26	Modeling hybrid perovskites by molecular dynamics. *Journal of Physics Condensed Matter*, **2017**, 29, 043003	2.8	45
25	Tuning the thermal conductivity of methylammonium lead halide by the molecular substructure. *Physical Chemistry Chemical Physics*, **2016**, 18, 24318-24	3.6	41
24	Atomistic Investigation of the Solubility of 3-Alkylthiophene Polymers in Tetrahydrofuran Solvent. *Macromolecules*, **2013**, 46, 8003-8008	5.5	26
23	Bottom-Up Mechanical Nanometrology of Granular Ag Nanoparticles Thin Films. *Journal of Physical Chemistry C*, **2017**, 121, 22434-22441	3.8	23
22	Development of a Classical Interatomic Potential for MAPbBr3. *Journal of Physical Chemistry C*, **2017**, 121, 3724-3733	3.8	19
21	Poly(3-hexylthiophene) Adhesion on Zinc Oxide Nanoneedles. *Journal of Physical Chemistry C*, **2011**, 115, 16833-16837	3.8	18
20	The study of polythiophene/water interfaces by sum-frequency generation spectroscopy and molecular dynamics simulations. *Journal of Materials Chemistry B*, **2015**, 3, 6429-6438	7.3	17
19	Photoacoustic Sensing of Trapped Fluids in Nanoporous Thin Films: Device Engineering and Sensing Scheme. *ACS Applied Materials & Interfaces*, **2018**, 10, 27947-27954	9.5	16
18	Atomistic simulations of P(NDI2OD-T2) morphologies: from single chain to condensed phases. *Journal of Physical Chemistry B*, **2014**, 118, 12556-65	3.4	16
17	Thermal boundary resistance from transient nanocalorimetry: A multiscale modeling approach. *Physical Review B*, **2017**, 95,	3.3	15
16	Linking morphology to thermal conductivity in PEDOT: an atomistic investigation. *Journal Physics D: Applied Physics*, **2017**, 50, 494002	3	13

15	Optoelectronic properties of (ZnO)60 isomers. *Physical Chemistry Chemical Physics*, **2012**, 14, 14293-8	3.6	13
14	Electronic Properties of Hybrid Zinc Oxide Oligothiophene Nanostructures. *Journal of Physical Chemistry C*, **2012**, 116, 8174-8180	3.8	13
13	Hydrophilicity and Water Contact Angle on Methylammonium Lead Iodide. *Advanced Materials Interfaces*, **2018**, 6, 1801173	4.6	13
12	Ag/In lead-free double perovskites. *EcoMat*, **2020**, 2, e12017	9.4	12
11	The dominant role of surfaces in the hysteretic behavior of hybrid perovskites. *Nano Energy*, **2020**, 67, 104162	17.1	12
10	Fundamentals of tin iodide perovskites: a promising route to highly efficient, lead-free solar cells. *Journal of Materials Chemistry A*, **2021**, 9, 11812-11826	13	12
9	Dielectric function of hybrid perovskites at finite temperature investigated by classical molecular dynamics. *Journal of Chemical Physics*, **2020**, 152, 104705	3.9	5
8	Photoluminescence, optical gain, and lasing threshold in CH3NH3PbI3 methylammonium lead-halide perovskites obtained by ab initio calculations. *Journal of Materials Chemistry C*, **2017**, 5, 12758-12768	7.1	4
7	Direct Correlation of Nanoscale Morphology and Device Performance to Study Photocurrent Generation in Donor-Enriched Phases of Polymer Solar Cells. *ACS Applied Materials & Interfaces* , **2020**, 12, 28404-28415	9.5	3
6	Theoretical insight on PTB7:PC71BM, PTB7-th:PC71BM and Si-PCPDTBT:PC71BM interactions governing blend nanoscale morphology for efficient solar cells. *Nano Energy*, **2021**, 82, 105708	17.1	3
5	Donuts and Spin Vortices at the Fermi Surfaces of Hybrid Lead-Iodide CH3NH3PbI3 Perovskites. *Journal of Physical Chemistry C*, **2019**, 123, 6753-6762	3.8	2
4	Pinpointing the Cause of Platinum Tipping on CdS Nanorods. *Journal of Physical Chemistry C*, **2015**, 119, 22663-22668	3.8	2
3	Implementation of a Design of Experiments Methodology for the Prediction of Phototransistor Degradation in a Space Environment. *IEEE Transactions on Nuclear Science*, **2009**, 56, 2465-2472	1.7	2
2	Bulk Structural and Electronic Properties at the Density Functional Theory and Post-Density Functional Theory Level of Calculation **2017**, 43-86		
1	Structure and Thermodynamic Properties of Hybrid Perovskites by Classical Molecular Dynamics **2017**, 1-42		