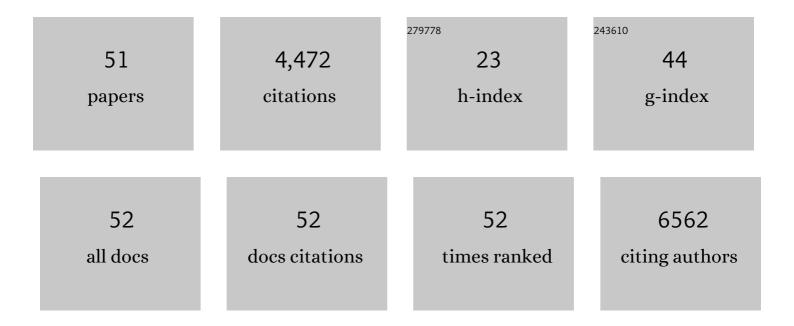
Claudio Quarti

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Cation-Induced Band-Gap Tuning in Organohalide Perovskites: Interplay of Spin–Orbit Coupling and Octahedra Tilting. Nano Letters, 2014, 14, 3608-3616.	9.1	1,033
2	The Raman Spectrum of the CH ₃ NH ₃ PbI ₃ Hybrid Perovskite: Interplay of Theory and Experiment. Journal of Physical Chemistry Letters, 2014, 5, 279-284.	4.6	555
3	Structural and optical properties of methylammonium lead iodide across the tetragonal to cubic phase transition: implications for perovskite solar cells. Energy and Environmental Science, 2016, 9, 155-163.	30.8	423
4	Interplay of Orientational Order and Electronic Structure in Methylammonium Lead Iodide: Implications for Solar Cell Operation. Chemistry of Materials, 2014, 26, 6557-6569.	6.7	286
5	Phonon coherences reveal the polaronic character of excitons in two-dimensional lead halide perovskites. Nature Materials, 2019, 18, 349-356.	27.5	257
6	The Impact of the Crystallization Processes on the Structural and Optical Properties of Hybrid Perovskite Films for Photovoltaics. Journal of Physical Chemistry Letters, 2014, 5, 3836-3842.	4.6	238
7	Structural and electronic properties of organo-halide lead perovskites: a combined IR-spectroscopy and ab initio molecular dynamics investigation. Physical Chemistry Chemical Physics, 2014, 16, 16137-16144.	2.8	211
8	Photoinduced Reversible Structural Transformations in Free-Standing CH ₃ NH ₃ PbI ₃ Perovskite Films. Journal of Physical Chemistry Letters, 2015, 6, 2332-2338.	4.6	190
9	Ferroelectric Polarization of CH ₃ NH ₃ PbI ₃ : A Detailed Study Based on Density Functional Theory and Symmetry Mode Analysis. Journal of Physical Chemistry Letters, 2015, 6, 2223-2231.	4.6	179
10	Influence of Surface Termination on the Energy Level Alignment at the CH ₃ NH ₃ PbI ₃ Perovskite/C60 Interface. Chemistry of Materials, 2017, 29, 958-968.	6.7	149
11	Structural and electronic properties of organo-halide hybrid perovskites from ab initio molecular dynamics. Physical Chemistry Chemical Physics, 2015, 17, 9394-9409.	2.8	130
12	Formation of Long-Lived Color Centers for Broadband Visible Light Emission in Low-Dimensional Layered Perovskites. Journal of the American Chemical Society, 2017, 139, 18632-18639.	13.7	111
13	Tuning the Optoelectronic Properties of Two-Dimensional Hybrid Perovskite Semiconductors with Alkyl Chain Spacers. Journal of Physical Chemistry Letters, 2018, 9, 3416-3424.	4.6	77
14	Ab Initio Calculation of the IR Spectrum of PTFE: Helical Symmetry and Defects. Journal of Physical Chemistry B, 2013, 117, 706-718.	2.6	60
15	Ab Initio Calculation of the Crystalline Structure and IR Spectrum of Polymers: Nylon 6 Polymorphs. Journal of Physical Chemistry B, 2012, 116, 8299-8311.	2.6	56
16	Vibrational Response of Methylammonium Lead Iodide: From Cation Dynamics to Phonon–Phonon Interactions. ChemSusChem, 2016, 9, 2994-3004.	6.8	51
17	A computational investigation on singlet and triplet exciton couplings in acene molecular crystals. Physical Chemistry Chemical Physics, 2011, 13, 18615.	2.8	44
18	Chlorine Incorporation in the CH ₃ NH ₃ PbI ₃ Perovskite: Small Concentration, Big Effect. Inorganic Chemistry, 2017, 56, 74-83.	4.0	40

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19	Lead-Halide Perovskites Meet Donor–Acceptor Charge-Transfer Complexes. Chemistry of Materials, 2019, 31, 6880-6888.	6.7	36
20	Fashioning Fluorous Organic Spacers for Tunable and Stable Layered Hybrid Perovskites. Chemistry of Materials, 2018, 30, 8211-8220.	6.7	35
21	IR spectroscopy of crystalline polymers from ab initio calculations: Nylon 6,6. Vibrational Spectroscopy, 2013, 66, 83-92.	2.2	32
22	Hot-Hole Cooling Controls the Initial Ultrafast Relaxation in Methylammonium Lead Iodide Perovskite. Scientific Reports, 2018, 8, 8115.	3.3	32
23	Physical properties of bulk, defective, 2D and 0D metal halide perovskite semiconductors from a symmetry perspective. JPhys Materials, 2020, 3, 042001.	4.2	29
24	Tetrazine molecules as an efficient electronic diversion channel in 2D organic–inorganic perovskites. Materials Horizons, 2021, 8, 1547-1560.	12.2	24
25	Electronic Structure and Optical Properties of Mixed Iodine/Bromine Lead Perovskites. To Mix or Not to Mix?. Advanced Optical Materials, 2021, 9, 2001832.	7.3	17
26	Cation Engineering for Resonant Energy Level Alignment in Two-Dimensional Lead Halide Perovskites. Journal of Physical Chemistry Letters, 2021, 12, 2528-2535.	4.6	17
27	Stable 6H Organic–Inorganic Hybrid Lead Perovskite and Competitive Formation of 6H and 3C Perovskite Structure with Mixed A Cations. ACS Applied Energy Materials, 2019, 2, 5427-5437.	5.1	15
28	First principles modeling of exciton-polaritons in polydiacetylene chains. Journal of Chemical Physics, 2020, 153, 084103.	3.0	14
29	Fluorination of Organic Spacer Impacts on the Structural and Optical Response of 2D Perovskites. Frontiers in Chemistry, 2019, 7, 946.	3.6	14
30	Spatial Charge Separation as the Origin of Anomalous Stark Effect in Fluorous 2D Hybrid Perovskites. Advanced Functional Materials, 2020, 30, 2000228.	14.9	12
31	Organic Cations Protect Methylammonium Lead Iodide Perovskites against Small Exciton-Polaron Formation. Journal of Physical Chemistry Letters, 2020, 11, 2983-2991.	4.6	12
32	Revealing Weak Dimensional Confinement Effects in Excitonic Silver/Bismuth Double Perovskites. Jacs Au, 2022, 2, 136-149.	7.9	12
33	A density matrix based approach for studying excitons in organic crystals. Chemical Physics Letters, 2010, 496, 284-290.	2.6	11
34	Charge transfer complexes of a benzothienobenzothiophene derivative and their implementation as active layer in solution-processed thin film organic field-effect transistors. Journal of Materials Chemistry C, 2022, 10, 7319-7328.	5.5	11
35	Polymorphism of even nylons revisited through periodic quantum chemical calculations. Polymer, 2015, 67, 167-173.	3.8	10
36	Impact of structural anisotropy on electro-mechanical response in crystalline organic semiconductors. Journal of Materials Chemistry C, 2019, 7, 4382-4391.	5.5	10

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#	Article	IF	CITATIONS
37	Modelling Coupled Ion Motion in Electrolyte Solutions for Lithiumâ€ S ulfur Batteries. Batteries and Supercaps, 2019, 2, 473-481.	4.7	9
38	DFT Simulations as Valuable Tool to Support NMR Characterization of Halide Perovskites: the Case of Pure and Mixed Halide Perovskites. Helvetica Chimica Acta, 2021, 104, e2000231.	1.6	8
39	Light harvesting of CdSe/CdS quantum dots coated with β-cyclodextrin based host–guest species through resonant energy transfer from the guests. RSC Advances, 2014, 4, 28886-28892.	3.6	5
40	Nanoscale Studies at the Early Stage of Water-Induced Degradation of CH ₃ NH ₃ PbI ₃ Perovskite Films Used for Photovoltaic Applications. ACS Applied Nano Materials, 2020, 3, 8268-8277.	5.0	5
41	A spectroscopic study of the optical properties of a nitrobenzoxadiazole derivative in solution: The role of specific interactions. Chemical Physics Letters, 2014, 610-611, 357-362.	2.6	3
42	Chapter 8. First Principles Modeling of Perovskite Solar Cells: Interplay of Structural, Electronic and Dynamical Effects. RSC Energy and Environment Series, 2016, , 234-296.	0.5	2
43	Synthesis and Characterization of (FA) ₃ (HEA) ₂ Pb ₃ I ₁₁ : A Rare Example of <1 1 0>-Oriented Multilayered Halide Perovskites. Chemistry of Materials, 2022, 34, 5780-5790.	6.7	2
44	Narrow and broadband light emission in layered organic lead halide perovskites: interplay between weak electron-lattice interactions and defect-related effects. , 2020, , .		1
45	Electric Properties of Organic–Inorganic Halide Perovskites and Their Role in the Working Principles of Perovskite-Based Solar Devices. , 2017, , 87-134.		0
46	Effect of electronically inert organic spacers on the optoelectronic properties of 2D hybrid perovskites. , 0, , .		0
47	Phonon coherences reveal the polaronic character of excitons in two-dimensional lead halide perovskites. , 0, , .		0
48	Electronic properties of 2D hybrid perovskites: spin-orbit coupling and indirect effect of inert organic spacers. , 0, , .		0
49	Effect of Electronically Inert Organic Spacers on the Optoelectronic Properties of 2D Hybrid Perovskites. , 0, , .		0
50	Framing excitons in halide perovskite materials from symmetry analysis and simulations. , 0, , .		0
51	Influence of Chemical Engineering, Photodoping and Lattice Distortions on the Optoelectronic Properties of Multilayered Perovskites. , 0, , .		0