

Alessandro Stroppa

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118
papers

5,846
citations

38
h-index

74
g-index

123
ext. papers

6,571
ext. citations

5
avg, IF

5.92
L-index

#	Paper	IF	Citations
118	Hybrid functionals applied to extended systems. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 064201	1.8	430
117	Accurate surface and adsorption energies from many-body perturbation theory. <i>Nature Materials</i> , 2010 , 9, 741-4	27	414
116	Hybrid improper ferroelectricity in a multiferroic and magnetoelectric metal-organic framework. <i>Advanced Materials</i> , 2013 , 25, 2284-90	24	246
115	Tuning the ferroelectric polarization in a multiferroic metal-organic framework. <i>Journal of the American Chemical Society</i> , 2013 , 135, 18126-30	16.4	225
114	Electric control of magnetization and interplay between orbital ordering and ferroelectricity in a multiferroic metal-organic framework. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 5847-50	16.4	223
113	Tunable ferroelectric polarization and its interplay with spin-orbit coupling in tin iodide perovskites. <i>Nature Communications</i> , 2014 , 5, 5900	17.4	215
112	The shortcomings of semi-local and hybrid functionals: what we can learn from surface science studies. <i>New Journal of Physics</i> , 2008 , 10, 063020	2.9	209
111	Electronic structure and ferromagnetism of Mn-doped group-IV semiconductors. <i>Physical Review B</i> , 2003 , 68,	3.3	184
110	Role of Polar Phonons in the Photo Excited State of Metal Halide Perovskites. <i>Scientific Reports</i> , 2016 , 6, 28618	4.9	178
109	Ferroelectric Polarization of CH ₃ NH ₃ PbI ₃ : A Detailed Study Based on Density Functional Theory and Symmetry Mode Analysis. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2223-31	6.4	151
108	Cross coupling between electric and magnetic orders in a multiferroic metal-organic framework. <i>Scientific Reports</i> , 2014 , 4, 6062	4.9	148
107	Hybrid functional study of proper and improper multiferroics. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 5405-16	3.6	133
106	Spin-phonon coupling effects in transition-metal perovskites: A DFT + U and hybrid-functional study. <i>Physical Review B</i> , 2012 , 85,	3.3	126
105	Intrinsic and anisotropic Rashba spin splitting in Janus transition-metal dichalcogenide monolayers. <i>Physical Review B</i> , 2018 , 97,	3.3	124
104	CO adsorption on metal surfaces: A hybrid functional study with plane-wave basis set. <i>Physical Review B</i> , 2007 , 76,	3.3	121
103	Unraveling the Jahn-Teller effect in Mn-doped GaN using the Heyd-Scuseria-Ernzerhof hybrid functional. <i>Physical Review B</i> , 2009 , 79,	3.3	114
102	Emergence of ferroelectricity and spin-valley properties in two-dimensional honeycomb binary compounds. <i>Physical Review B</i> , 2015 , 91,	3.3	107

101	Magnetism in C- or N-doped MgO and ZnO: a density-functional study of impurity pairs. <i>Physical Review Letters</i> , 2010 , 105, 267203	7.4	103
100	The multiferroic phase of DyFeO ₃ : an ab initio study. <i>New Journal of Physics</i> , 2010 , 12, 093026	2.9	90
99	Experimental and theoretical studies of structural phase transition in a novel polar perovskite-like [C ₂ H ₅ NH ₃][Na _{0.5} Fe _{0.5} (HCOO) ₃] formate. <i>Dalton Transactions</i> , 2016 , 45, 2574-83	4.3	85
98	Multiferroicity in TTF-CA organic molecular crystals predicted through ab initio calculations. <i>Physical Review Letters</i> , 2009 , 103, 266401	7.4	85
97	Switchable electric polarization and ferroelectric domains in a metal-organic-framework. <i>Npj Quantum Materials</i> , 2016 , 1,	5	84
96	Large ferroelectric polarization in the new double perovskite NaLaMnWO ₆ induced by non-polar instabilities. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 12186-90	3.6	83
95	Room-temperature polar order in [NH ₄][Cd(HCOO) ₃]-a hybrid inorganic-organic compound with a unique perovskite architecture. <i>Inorganic Chemistry</i> , 2015 , 54, 2109-16	5.1	69
94	High-T(c) ferroelectricity emerging from magnetic degeneracy in cupric oxide. <i>Physical Review Letters</i> , 2011 , 106, 026401	7.4	62
93	High-temperature ferroelectricity and strong magnetoelectric effects in a hybrid organic-inorganic perovskite framework. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015 , 9, 62-67	2.5	59
92	Possibility of combining ferroelectricity and Rashba-like spin splitting in monolayers of the 1T-type transition-metal dichalcogenides MX ₂ (M=Mo,W;X=S,Se,Te). <i>Physical Review B</i> , 2016 , 94,	3.3	59
91	Dielectric properties and magnetostriction of the collinear multiferroic spinel CdV ₂ O ₄ . <i>Physical Review B</i> , 2011 , 83,	3.3	59
90	Revisiting Mn-doped Ge using the Heyd-Scuseria-Ernzerhof hybrid functional. <i>Physical Review B</i> , 2011 , 83,	3.3	57
89	Strain tuning of ferroelectric polarization in hybrid organic inorganic perovskite compounds. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 4553-9	6.4	55
88	Organic-inorganic hybrid perovskites AB ₃ (A = CH ₃ NH ₃ , NH ₂ CHNH ₂ ; B = Sn, Pb) as potential thermoelectric materials: a density functional evaluation. <i>RSC Advances</i> , 2015 , 5, 78701-78707	3.7	51
87	Electric Control of Magnetization and Interplay between Orbital Ordering and Ferroelectricity in a Multiferroic Metal-Organic Framework. <i>Angewandte Chemie</i> , 2011 , 123, 5969-5972	3.6	50
86	Zigzag antiferromagnetic quantum ground state in monoclinic honeycomb lattice antimonates A ₃ Ni ₂ SbO ₆ (A=Li,Na). <i>Physical Review B</i> , 2015 , 92,	3.3	46
85	Coexistence of Three Ferroic Orders in the Multiferroic Compound [(CH ₃) ₄ N][Mn(N ₃) ₃] with Perovskite-Like Structure. <i>Chemistry - A European Journal</i> , 2016 , 22, 7863-70	4.8	46
84	Anharmonic lattice interactions in improper ferroelectrics for multiferroic design. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 283202	1.8	44

83	Polar distortions in hydrogen-bonded organic ferroelectrics. <i>Physical Review B</i> , 2011 , 84,	3.3	43
82	Polar Nature of (CHNH)Bi Perovskite-Like Hybrids. <i>Inorganic Chemistry</i> , 2017 , 56, 33-41	5.1	42
81	Dipole Order in Halide Perovskites: Polarization and Rashba Band Splittings. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 23045-23054	3.8	39
80	Revealing the role of thiocyanate anion in layered hybrid halide perovskite (CHNH)Pb(SCN)I. <i>Journal of Chemical Physics</i> , 2017 , 146, 224702	3.9	38
79	Lone-Pair-Electron-Driven Ionic Displacements in a Ferroelectric Metal-Organic Hybrid. <i>Inorganic Chemistry</i> , 2016 , 55, 10337-10342	5.1	38
78	Anomalous and Polarization-Sensitive Photoresponse of T-WTe from Visible to Infrared Light. <i>Advanced Materials</i> , 2019 , 31, e1804629	24	37
77	Adsorption and Dissociation of CO on Bare and Ni-Decorated Stepped Rh(553) Surfaces. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 942-949	3.8	36
76	Structural, electronic and ferroelectric properties of croconic acid crystal: a DFT study. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 14673-81	3.6	35
75	Intertwined Rashba, Dirac, and Weyl Fermions in Hexagonal Hyperferroelectrics. <i>Physical Review Letters</i> , 2016 , 117, 076401	7.4	35
74	Exceptionally large room-temperature ferroelectric polarization in the PbNiO ₃ multiferroic nickelate: First-principles study. <i>Physical Review B</i> , 2012 , 86,	3.3	34
73	Advances in ab-initio theory of multiferroics. <i>European Physical Journal B</i> , 2012 , 85, 1	1.2	33
72	Magnetic phase transition and giant anisotropic magnetic entropy change in TbFeO ₃ single crystal. <i>Journal of Applied Physics</i> , 2016 , 119, 063904	2.5	32
71	Electric-Magneto-Optical Kerr Effect in a Hybrid Organic-Inorganic Perovskite. <i>Journal of the American Chemical Society</i> , 2017 , 139, 12883-12886	16.4	30
70	Ferroelectric polarization of hydroxyapatite from density functional theory. <i>RSC Advances</i> , 2017 , 7, 21375-21379	3.7	29
69	Composition and strain dependence of band offsets at metamorphic In _x Ga _{1-x} As/Al _y As heterostructures. <i>Physical Review B</i> , 2005 , 71,	3.3	29
68	Spin-reorientation magnetic transitions in Mn-doped SmFeO. <i>IUCrJ</i> , 2017 , 4, 598-603	4.7	29
67	Competing magnetic phases of Mn ₅ Ge ₃ compound. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007 , 204, 44-52	1.6	28
66	Computational and experimental imaging of Mn defects on GaAs (110) cross-sectional surfaces. <i>Physical Review B</i> , 2007 , 75,	3.3	28

65	Manipulation of valley pseudospin in WSe ₂ /CrI ₃ heterostructures by the magnetic proximity effect. <i>Physical Review B</i> , 2020 , 101,	3.3	26
64	Tuning the ferroelectric polarization in AAMnWO ₆ double perovskites through A cation substitution. <i>Dalton Transactions</i> , 2015 , 44, 10644-53	4.3	25
63	A RAIRS, TPD, and DFT Study of Carbon Monoxide Adsorption on Stepped Rh(553). <i>Journal of Physical Chemistry C</i> , 2008 , 112, 806-812	3.8	25
62	2020 ,		25
61	Magnetic Structures of Heterometallic M(II)-M(III) Formate Compounds. <i>Inorganic Chemistry</i> , 2017 , 56, 197-207	5.1	24
60	Fingerprints of the hydrogen bond in the photoemission spectra of croconic acid condensed phase: an x-ray photoelectron spectroscopy and ab-initio study. <i>Journal of Chemical Physics</i> , 2011 , 134, 174505	3.9	24
59	Brilliant triboluminescence in a potential organic/inorganic hybrid ferroelectric: (Ph ₃ PO) ₂ MnBr ₂ . <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 154-159	6.8	22
58	Magneto-optical properties of (Ga,Mn)As: An ab initio determination. <i>Physical Review B</i> , 2008 , 77,	3.3	22
57	Ab initio study of the relation between electric polarization and electric field gradients in ferroelectrics. <i>Physical Review B</i> , 2012 , 86,	3.3	20
56	The electronic structure of gas phase croconic acid compared to the condensed phase: more insight into the hydrogen bond interaction. <i>Journal of Chemical Physics</i> , 2013 , 138, 014308	3.9	20
55	Improper ferroelectricity at antiferromagnetic domain walls of perovskite oxides. <i>Physical Review B</i> , 2017 , 96,	3.3	19
54	Lattice dynamics of Dirac node-line semimetal ZrSiS. <i>Physical Review B</i> , 2017 , 96,	3.3	19
53	Atomically precise semiconductor--graphene and hBN interfaces by Ge intercalation. <i>Scientific Reports</i> , 2015 , 5, 17700	4.9	19
52	Structural and ferroelectric transitions in magnetic nickelate PbNiO ₃ . <i>New Journal of Physics</i> , 2014 , 16, 015030	2.9	19
51	Tuning the Weak Ferromagnetic States in Dysprosium Orthoferrite. <i>Scientific Reports</i> , 2016 , 6, 37529	4.9	19
50	Persistent Spin-texture and Ferroelectric Polarization in 2D Hybrid Perovskite Benzylammonium Lead-halide. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 5177-5183	6.4	18
49	Bioferroelectric Properties of Glycine Crystals. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 1319-1324	6.4	17
48	Electronic structure of tris(8-hydroxyquinolino)aluminium(III) revisited using the Heyd-Scuseria-Ernzerhof hybrid functional: Theory and experiments. <i>Physical Review B</i> , 2011 , 84,	3.3	16

47	Impact of organic molecule rotation on the optoelectronic properties of hybrid halide perovskites. <i>Physical Review Materials</i> , 2019 , 3,	3.2	15
46	Ferroelectricity and ferromagnetism in a VO ₂ monolayer: Role of the Dzyaloshinskii-Moriya interaction. <i>Physical Review B</i> , 2020 , 102,	3.3	15
45	Magneto-Optical Kerr Switching Properties of (CrI ₃) ₂ and (CrBr ₃ /CrI ₃) Bilayers. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 1373-1380	4	14
44	Spin polarization tuning in Mn ₅ FeGe ₃ . <i>Applied Physics Letters</i> , 2008 , 93, 092502	3.4	14
43	Tuning order-by-disorder multiferroicity in CuO by doping. <i>Physical Review B</i> , 2014 , 90,	3.3	13
42	On The Density Functional Theory Treatment of Lanthanide Coordination Compounds: A Comparative Study in a Series of Cu-Ln (Ln = Gd, Tb, Lu) Binuclear Complexes. <i>Inorganic Chemistry</i> , 2017 , 56, 9474-9485	5.1	13
41	Polar and Magneto-Electric Properties of Anti-Ferrodistoritive Ordered Jahn-Teller Distortions in a multiferroic metal-organic framework. <i>Journal of Physics: Conference Series</i> , 2013 , 428, 012029	0.3	13
40	Kinetic asymmetry in the growth of two-dimensional Mn oxide nanostripes. <i>Physical Review B</i> , 2013 , 88,	3.3	12
39	ZnSe/GaAs(001) heterostructures with defected interfaces: Structural, thermodynamic, and electronic properties. <i>Physical Review B</i> , 2005 , 72,	3.3	12
38	Switchable Rashba anisotropy in layered hybrid organic/inorganic perovskite by hybrid improper ferroelectricity. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	12
37	Tunable spin textures in polar antiferromagnetic hybrid organic/inorganic perovskites by electric and magnetic fields. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	12
36	Structural properties and strain engineering of a BeB ₂ monolayer from first-principles. <i>RSC Advances</i> , 2017 , 7, 38410-38414	3.7	11
35	Electronic transport of organic-inorganic hybrid perovskites from first-principles and machine learning. <i>Applied Physics Letters</i> , 2019 , 114, 083102	3.4	10
34	Cyano-bridged perovskite [(CH ₃) ₃ NOH] ₂ [KM(CN) ₆], [M: Fe(III), and Co(III)] for high-temperature multi-axial ferroelectric applications with enhanced thermal and nonlinear optical performance. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 17491-17501	7.1	9
33	Structural and magnetic properties of Mn-doped GaAs(1 1 0) surface. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006 , 126, 217-221	3.1	9
32	Magneto-electric coupling in antiferromagnet/ferroelectric Mn ₂ Au/BaTiO ₃ interface. <i>Journal of Applied Physics</i> , 2016 , 120, 074104	2.5	9
31	Tuning the CO Dissociation Barriers by Low-Dimensional Surface Alloys. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 21320-21323	3.8	8
30	Non-collinear magnetic states of Mn ₅ Ge ₃ compound. <i>Materials Science in Semiconductor Processing</i> , 2006 , 9, 841-847	4.3	8

29	Two-dimensional metal dicyanamide frameworks of BeTriMe[M(dca)3(H2O)] (BeTriMe = benzyltrimethylammonium; dca = dicyanamide; M = Mn ²⁺ , Co ²⁺ , Ni ²⁺): coexistence of polar and magnetic orders and nonlinear optical threshold temperature sensing. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 11735-11747	7.1	8
28	Pressure-induced reversible framework rearrangement and increased polarization in the polar [NH ₄][Cd(HCOO) ₃] hybrid perovskite. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 2379-2386	6.8	7
27	Synthesis and characterization of MnCrO ₄ , a new mixed-valence antiferromagnet. <i>Inorganic Chemistry</i> , 2013 , 52, 11850-8	5.1	7
26	Noble gas endohedral fullerenes, Ng@C ₆₀ (Ng=Ar, Kr): a particular benchmark for assessing the account of non-covalent interactions by density functional theory calculations. <i>Theoretical Chemistry Accounts</i> , 2016 , 135, 1	1.9	7
25	Bulk electronic structure of Mn ₅ Ge ₃ /Ge(111) films by angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , 2013 , 87,	3.3	6
24	Cubic and tetragonal perovskites from the random phase approximation. <i>Physical Review Materials</i> , 2019 , 3,	3.2	6
23	Spin valley and giant quantum spin Hall gap of hydrofluorinated bismuth nanosheet. <i>Scientific Reports</i> , 2018 , 8, 7436	4.9	4
22	Effect of Au proximity on the LSMO surface: An ab initio study. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 2659-2663	2.8	4
21	Design of a polar half-metallic ferromagnet with accessible and enhanced electric polarization. <i>Physical Review Materials</i> , 2018 , 2,	3.2	4
20	First-principles study of the structural, electronic, magnetic, and ferroelectric properties of a charge-ordered iron(ii)-iron(iii) formate framework. <i>Journal of Chemical Physics</i> , 2019 , 151, 124704	3.9	3
19	Simulation of Structural Phase Transitions in Perovskite Methylhydrazinium Metal Formate Frameworks: Coupled Ising and Potts Models. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 19912-19919	3.8	3
18	Local probing of multiferroics: First-principles study of hyperfine parameters in YMnO ₃ and YMn ₂ O ₅ . <i>EPJ Web of Conferences</i> , 2014 , 75, 09002	0.3	3
17	Unravelling the role of the central metal ion in the electronic structure of tris(8-hydroxyquinoline) metal chelates: photoemission spectroscopy and hybrid functional calculations. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 11548-52	2.8	3
16	Giovanetti et al. Reply. <i>Physical Review Letters</i> , 2011 , 107,	7.4	3
15	Electronic structure of bimetallic NiRh nanowires. <i>Surface Science</i> , 2010 , 604, 1406-1413	1.8	3
14	k dependence of the spin polarization in Mn ₅ Ge ₃ /Ge(111) thin films. <i>Physical Review B</i> , 2015 , 91,	3.3	2
13	Analogies between Jahn-Teller and Rashba spin physics. <i>International Journal of Quantum Chemistry</i> , 2016 , 116, 1442-1450	2.1	2
12	Modifying spin current filtering and magnetoresistance in a molecular spintronic device. <i>RSC Advances</i> , 2018 , 8, 41587-41593	3.7	2

11	Magnetic frustration in double perovskite LaSrNiRuO ₆ . <i>Europhysics Letters</i> , 2018 , 123, 57003	1.6	2
10	Molecular dynamics simulations of ferroelectricity in di-isopropyl-ammonium halide molecular crystals. <i>Chemical Physics Letters</i> , 2019 , 730, 367-371	2.5	1
9	Structural properties and stability of defected ZnSe/GaAs(0 0 1) interfaces. <i>Computational Materials Science</i> , 2005 , 33, 256-262	3.2	1
8	Density functional theory study of single-molecule ferroelectricity in Preyssler-type polyoxometalates. <i>APL Materials</i> , 2021 , 9, 021109	5.7	1
7	Possible High-TC Layered Ferromagnetic Insulator Sr ₂ NiRuO ₄ : An Ab Initio Study. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 25589-25594	3.8	1
6	Defect induced ferromagnetism in a two-dimensional metal-organic framework. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 545, 168659	2.8	0
5	2D hybrid CrCl ₂ (N ₂ C ₄ H ₄) ₂ with tunable ferromagnetic half-metallicity. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 5985-5991	7.1	0
4	First-Principles Study of Structure and Magnetism in Copper(II)-Containing Hybrid Perovskites. <i>Crystals</i> , 2020 , 10, 1129	2.3	
3	Hybrid Halide Perovskites 2020 , 15-78		
2	Hybrid Azide Perovskites 2020 , 151-179		
1	Hybrid Formate Perovskites 2020 , 79-149		