

Eric Bousquet

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73
papers

3,816
citations

32
h-index

61
g-index

77
ext. papers

4,795
ext. citations

5.9
avg, IF

5.51
L-index

#	Paper	IF	Citations
73	Improper ferroelectricity in perovskite oxide artificial superlattices. <i>Nature</i> , 2008 , 452, 732-6	50.4	674
72	Recent developments in the ABINIT software package. <i>Computer Physics Communications</i> , 2016 , 205, 106-131	4.2	494
71	The PseudoDojo: Training and grading a 85 element optimized norm-conserving pseudopotential table. <i>Computer Physics Communications</i> , 2018 , 226, 39-54	4.2	473
70	Engineering multiferroism in CaMnO ₃ . <i>Physical Review Letters</i> , 2009 , 102, 117602	7.4	167
69	The Abinitproject: Impact, environment and recent developments. <i>Computer Physics Communications</i> , 2020 , 248, 107042	4.2	143
68	Strain-induced ferroelectricity in simple rocksalt binary oxides. <i>Physical Review Letters</i> , 2010 , 104, 037601	7.4	104
67	Finite-size effects in BaTiO ₃ nanowires. <i>Applied Physics Letters</i> , 2006 , 88, 112906	3.4	103
66	Noncollinear magnetism and single-ion anisotropy in multiferroic perovskites. <i>Physical Review B</i> , 2012 , 86,	3.3	74
65	Large elasto-optic effect and reversible electrochromism in multiferroic BiFeO ₃ . <i>Nature Communications</i> , 2016 , 7, 10718	17.4	72
64	Ferromagnetism induced by entangled charge and orbital orderings in ferroelectric titanate perovskites. <i>Nature Communications</i> , 2015 , 6, 6677	17.4	70
63	Direct evidence for ferroelectric polar distortion in ultrathin lead titanate perovskite films. <i>Physical Review B</i> , 2006 , 73,	3.3	69
62	Strong coupling of Jahn-Teller distortion to oxygen-octahedron rotation and functional properties in epitaxially strained orthorhombic LaMnO ₃ . <i>Physical Review B</i> , 2013 , 88,	3.3	67
61	PyProcar: A Python library for electronic structure pre/post-processing. <i>Computer Physics Communications</i> , 2020 , 251, 107080	4.2	66
60	Coupling and electrical control of structural, orbital and magnetic orders in perovskites. <i>Scientific Reports</i> , 2015 , 5, 15364	4.9	64
59	Monopole-based formalism for the diagonal magnetoelectric response. <i>Physical Review B</i> , 2013 , 88,	3.3	61
58	LiMSO(4)F (M = Fe, Co and Ni): promising new positive electrode materials through the DFT microscope. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 15512-22	3.6	59
57	Non-collinear magnetism in multiferroic perovskites. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 123003	3.1	53

56	Induced magnetoelectric response in Pnma perovskites. <i>Physical Review Letters</i> , 2011 , 107, 197603	7.4	53
55	ABINIT: Overview and focus on selected capabilities. <i>Journal of Chemical Physics</i> , 2020 , 152, 124102	3.9	52
54	Incipient ferroelectricity in 2.3% tensile-strained CaMnO ₃ films. <i>Physical Review B</i> , 2012 , 85,	3.3	51
53	J dependence in the LSDA+U treatment of noncollinear magnets. <i>Physical Review B</i> , 2010 , 82,	3.3	51
52	Geometric ferroelectricity in fluoroperovskites. <i>Physical Review B</i> , 2014 , 89,	3.3	48
51	First-principles study of structural and vibrational properties of SrZrO ₃ . <i>Physical Review B</i> , 2012 , 85,	3.3	47
50	Unexpectedly large electronic contribution to linear magnetoelectricity. <i>Physical Review Letters</i> , 2011 , 106, 107202	7.4	46
49	Linear magnetoelectric effect by orbital magnetism. <i>Physical Review Letters</i> , 2012 , 109, 197203	7.4	44
48	First-principles study of barium titanate under hydrostatic pressure. <i>Physical Review B</i> , 2006 , 74,	3.3	43
47	Tuning the Electronic Structure of LaNiO through Alloying with Strontium to Enhance Oxygen Evolution Activity. <i>Advanced Science</i> , 2019 , 6, 1901073	13.6	41
46	Phenomenological thermodynamic potential for CaTiO ₃ single crystals. <i>Physical Review B</i> , 2012 , 85,	3.3	40
45	First-principles reinvestigation of bulk WO ₃ . <i>Physical Review B</i> , 2016 , 94,	3.3	39
44	Rationalizing and engineering Rashba spin-splitting in ferroelectric oxides. <i>Npj Quantum Materials</i> , 2019 , 4,	5	36
43	Ultrafast control of magnetic interactions via light-driven phonons. <i>Nature Materials</i> , 2021 , 20, 607-611	27	35
42	First-principles study of the ferroelectric Aurivillius phase Bi ₂ WO ₆ . <i>Physical Review B</i> , 2012 , 86,	3.3	33
41	Strain-Engineered Multiferroicity in Pnma NaMnF ₃ Fluoroperovskite. <i>Physical Review Letters</i> , 2016 , 116, 117202	7.4	29
40	New developments in artificially layered ferroelectric oxide superlattices. <i>MRS Bulletin</i> , 2013 , 38, 1048-1055	10.5	27
39	Proper Ferroelectricity in the Dion-Jacobson Material CsBi ₂ Ti ₂ NbO ₁₀ : Experiment and Theory. <i>Chemistry of Materials</i> , 2015 , 27, 8298-8309	9.6	23

38	First-principles study of competing ferroelectric and antiferroelectric instabilities in BaTiO ₃ /BaO superlattices. <i>Physical Review B</i> , 2010 , 82,	3.3	20
37	Unveiling the Room-Temperature Magnetoelectricity of Troilite FeS. <i>Physical Review Letters</i> , 2016 , 116, 227601	7.4	18
36	Spin texture induced by oxygen vacancies in strontium perovskite (001) surfaces: A theoretical comparison between SrTiO ₃ and SrHfO ₃ . <i>Physical Review B</i> , 2016 , 93,	3.3	17
35	Room temperature ferroelectricity in fluoroperovskite thin films. <i>Scientific Reports</i> , 2017 , 7, 7182	4.9	17
34	First-principles study of the dielectric and dynamical properties of orthorhombic CaMnO ₃ . <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 255229	1.8	16
33	First-principles study of vibrational and noncollinear magnetic properties of the perovskite to postperovskite pressure transition of NaMnF ₃ . <i>Physical Review B</i> , 2014 , 90,	3.3	15
32	NdBaScO ₄ : aristotype of a new family of geometric ferroelectrics?. <i>Chemical Communications</i> , 2016 , 52, 10980-3	5.8	13
31	Novel magneto-electric multiferroics from first-principles calculations. <i>Comptes Rendus Physique</i> , 2015 , 16, 153-167	1.4	12
30	Direct Magnetization-Polarization Coupling in BaCuF ₄ . <i>Physical Review Letters</i> , 2018 , 121, 117601	7.4	12
29	Making EuO multiferroic by epitaxial strain engineering. <i>Communications Materials</i> , 2020 , 1,	6	11
28	TB2J: A python package for computing magnetic interaction parameters. <i>Computer Physics Communications</i> , 2021 , 264, 107938	4.2	10
27	Pressure-induced insulator-metal transition in EuMnO. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 305801	1.8	8
26	First-principles characterization of single-electron polaron in WO ₃ . <i>Physical Review Research</i> , 2020 , 2,	3.9	8
25	Correlation between optical constants and crystal chemical parameters of ZrW ₂ O ₈ . <i>Journal of Solid State Chemistry</i> , 2009 , 182, 2762-2768	3.3	7
24	New Insight into the Concept of Ferroelectric Correlation Volume. <i>Journal of Computational and Theoretical Nanoscience</i> , 2008 , 5, 517-520	0.3	7
23	Ultrafast strain engineering and coherent structural dynamics from resonantly driven optical phonons in LaAlO ₃ . <i>Npj Quantum Materials</i> , 2020 , 5,	5	6
22	Raman spectra of fine-grained materials from first principles. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	6
21	Firefly Algorithm Applied to Noncollinear Magnetic Phase Materials Prediction. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 4455-4466	6.4	6

20	Bi2W2O9: A potentially antiferroelectric Aurivillius phase. <i>Physical Review B</i> , 2020 , 101,	3.3	5
19	Atomic structure of Sr/Si(0 0 1)(1 $\bar{1}$) surfaces prepared by Pulsed laser deposition. <i>Applied Surface Science</i> , 2019 , 471, 664-669	6.7	5
18	Density functional perturbation theory within noncollinear magnetism. <i>Physical Review B</i> , 2019 , 99,	3.3	4
17	Noncollinear magnetism in post-perovskites from first principles: Comparison between CaRhO3 and NaNiF3. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 689-694	1.3	4
16	Atomic-scale measurement of polar entropy. <i>Physical Review B</i> , 2019 , 100,	3.3	4
15	Engineering of Ferroic Orders in Thin Films by Anionic Substitution. <i>Advanced Functional Materials</i> , 2017 , 27, 1356	13.56	4
14	First-principles study of strain-induced Jahn-Teller distortions in BaFeO. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 255701	1.8	4
13	Ferroelectric instability in nanotubes and spherical nanoshells. <i>Europhysics Letters</i> , 2015 , 112, 37006	1.6	3
12	Magneto-electric multiferroics: designing new materials from first-principles calculations. <i>Physical Sciences Reviews</i> , 2020 , 5,	1.4	3
11	Ferroelectricity and multiferroicity in anti-Ruddlesden-Popper structures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	3
10	Tuning between Proper and Hybrid-Improper Mechanisms for Polar Behavior in Cs TiNbO Dion-Jacobson Phases. <i>Chemistry of Materials</i> , 2020 , 32, 8700-8712	9.6	2
9	Giant photoinduced lattice distortion in oxygen vacancy ordered SrCoO2.5 thin films. <i>Physical Review B</i> , 2019 , 100,	3.3	2
8	First-principles study of lattice dynamical properties of the room-temperature P21/n and ground-state P21/c phases of WO3. <i>Physical Review B</i> , 2022 , 105,	3.3	2
7	Halide perovskites: third generation photovoltaic materials empowered by metavalent bonding		2
6	Optimizing the orbital occupation in the multiple minima problem of magnetic materials from the metaheuristic firefly algorithm. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 21932-21941	3.6	2
5	Magnetic phase diagram of rare-earth orthorhombic perovskite oxides. <i>Physical Review B</i> , 2021 , 104,	3.3	2
4	Oxyfluoride superlattices KTaO3/KMF3 (M=Zn,Ni): Structural and electronic phenomena. <i>Physical Review B</i> , 2020 , 102,	3.3	1
3	Optimized Methodology for the Calculation of Electrostriction from First-Principles. <i>Small</i> , 2021 , e2103419	4.19	1

- 2 Tuning octahedral tilts and the polar nature of A-site deficient perovskites. *Chemical Communications*, **2019**, 55, 2609-2612 5.8 1
- 1 Multianion induced out-of-plane proper polarization in oxyfluoride Aurivillius Bi₂TiO₄F₂. *Journal of Physics and Chemistry of Solids*, **2022**, 167, 110720 3.9 0