

Paolo Barone

List of Publications by Year in descending order

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68
papers

3,439
citations

172386

29
h-index

138417

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g-index

70
all docs

70
docs citations

70
times ranked

4302
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for a single-layer van der Waals multiferroic. Nature, 2022, 602, 601-605.	13.7	104
2	Curved Magnetism in CrI_3 . Physical Review Letters, 2022, 128, 177202.	13.7	23
3	Charge-transfer and excitations in AgF_2 . Physical Review Research, 2022, 4, .	1.3	7
4	Theory of superconductivity mediated by Rashba coupling in incipient ferroelectrics. Physical Review B, 2022, 105, .	1.1	12
5	Half-metallic ferromagnetism in layered CdOHCl induced by hole doping. 2D Materials, 2021, 8, 025027.	2.0	10
6	First-principles theory of infrared vibrational spectroscopy of metals and semimetals: Application to graphite. Physical Review B, 2021, 103, .	1.1	9
7	Trilinear-coupling-driven ferroelectricity in HfO_2 . Physical Review Materials, 2021, 5, .	0.9	25
8	Interplay between Single-Ion and Two-Ion Anisotropies in Frustrated 2D Semiconductors and Tuning of Magnetic Structures Topology. Nanomaterials, 2021, 11, 1873.	1.9	25
9	Chirality and Magnetocaloricity in GdFeTeO6 as Compared to GdGaTeO6. Materials, 2021, 14, 5954.	1.3	2
10	Spontaneous skyrmionic lattice from anisotropic symmetric exchange in a Ni-halide monolayer. Nature Communications, 2020, 11, 5784.	5.8	113
11	Absolute crystal and magnetic chiralities in the langasite compound Ba3NbFe3Si2O14 determined by polarized neutron and x-ray scattering. Physical Review B, 2020, 102, .	1.1	4
12	Deconfinement of Mott localized electrons into topological and spin-orbit-coupled Dirac fermions. Npj Quantum Materials, 2020, 5, .	1.8	13
13	Persistent Spin-texture and Ferroelectric Polarization in 2D Hybrid Perovskite Benzylammonium Lead-halide. Journal of Physical Chemistry Letters, 2020, 11, 5177-5183.	2.1	34
14	Berry phase engineering at oxide interfaces. Physical Review Research, 2020, 2, .	1.3	64
15	Position and momentum mapping of vibrations in graphene nanostructures. Nature, 2019, 573, 247-250.	13.7	96
16	Giant effective charges and piezoelectricity in gapped graphene. 2D Materials, 2019, 6, 045015.	2.0	23
17	Rationalizing and engineering Rashba spin-splitting in ferroelectric oxides. Npj Quantum Materials, 2019, 4, .	1.8	59
18	Band splitting with vanishing spin polarizations in noncentrosymmetric crystals. Nature Communications, 2019, 10, 5144.	5.8	17

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19	Silver route to cuprate analogs. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1495-1500.	3.3	47
20	Possible emergence of a skyrmion phase in ferroelectric GaMnO_3 . Physical Review B, 2019, 99, .	1.1	18
21	Bulk Rashba effect in multiferroics: A theoretical prediction for BiCoO_3 . Physical Review B, 2019, 100, .	1.1	29
22	Persistent spin helix in Rashba-Dresselhaus ferroelectric $\text{CsBiNb}_7\text{O}_{20}$. Physical Review Materials, 2019, 3, .	0.9	41
23	Superconductivity in tin selenide under pressure. Physical Review Materials, 2019, 3, .	0.9	10
24	Polarization dependence of the third-harmonic generation in multiband superconductors. Physical Review B, 2018, 97, .	1.1	37
25	Dramatic enhancement of spin-spin coupling and quenching of magnetic dimensionality in compressed silver difluoride. Chemical Communications, 2018, 54, 10252-10255.	2.2	17
26	Realizing double Dirac particles in the presence of electronic interactions. Physical Review B, 2017, 96, .	1.1	23
27	Electronic bands and optical conductivity of the Dzyaloshinsky-Moriya multiferroic $\text{Ba}_2\text{Mn}_5\text{O}_{15}$. Physical Review B, 2017, 96, .	1.1	5
28	Topological phase transition coupled with spin-valley physics in ferroelectric oxide heterostructures. Physical Review B, 2017, 95, .	1.1	9
29	Quantum spin Hall effect in rutile-based oxide multilayers. Physical Review B, 2016, 94, .	1.1	11
30	Magnetolectric coupling and spin-induced electrical polarization in metal-organic magnetic chains. Journal of Materials Chemistry C, 2016, 4, 4176-4185.	2.7	18
31	Analogies between Jahn-Teller and Rashba spin physics. International Journal of Quantum Chemistry, 2016, 116, 1442-1450.	1.0	3
32	Intertwined Rashba, Dirac, and Weyl Fermions in Hexagonal Hyperferroelectrics. Physical Review Letters, 2016, 117, 076401.	2.9	42
33	Rashba-Dresselhaus spin-splitting in the bulk ferroelectric oxide BiAlO_3 . Physical Review B, 2016, 93, .	1.1	9
34	Magnetolectric coupling in the type-I multiferroic ScFeO_3 . Physical Review B, 2016, 94, .	1.1	13
35	Possibility of combining ferroelectricity and Rashba-like spin splitting in monolayers of the transition-metal dichalcogenides TM_2X_4 .		

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37	Jahn-Teller distortions as a novel source of multiferroicity. <i>Physical Review B</i> , 2015, 92, .	1.1	25
38	Coupling Ferroelectricity with Spin-Valley Physics in Oxide-Based Heterostructures. <i>Physical Review Letters</i> , 2015, 115, 037602.	2.9	38
39	Robustness of Rashba and Dirac Fermions against Strong Disorder. <i>Scientific Reports</i> , 2015, 5, 11285.	1.6	11
40	Mechanisms and origin of multiferroicity. <i>Comptes Rendus Physique</i> , 2015, 16, 143-152.	0.3	25
41	Emergence of ferroelectricity and spin-valley properties in two-dimensional honeycomb binary compounds. <i>Physical Review B</i> , 2015, 91, .	1.1	128
42	Combined first-principles and thermodynamic approach to M -nitronyl nitroxide M	1.1	15
43	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.	1.2	70
44	Structural and ferroelectric transitions in magnetic nickelate $PbNiO_3$. <i>New Journal of Physics</i> , 2014, 16, 015030.	1.2	23
45	Tunable ferroelectric polarization and its interplay with spin-orbit coupling in tin iodide perovskites. <i>Nature Communications</i> , 2014, 5, 5900.	5.8	247
46	Engineering relativistic effects in ferroelectric SnTe. <i>Physical Review B</i> , 2014, 90, .	1.1	64
47	Improper origin of polar displacements at $CaTiO_3$ and $CaMnO_3$ twin walls. <i>Physical Review B</i> , 2014, 89, .	1.1	25
48	Electronic ferroelectricity induced by charge and orbital orderings. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 103201.	0.7	42
49	Cross coupling between electric and magnetic orders in a multiferroic metal-organic framework. <i>Scientific Reports</i> , 2014, 4, 6062.	1.6	175
50	Electric Control of the Giant Rashba Effect in Bulk GeTe. <i>Advanced Materials</i> , 2013, 25, 509-513.	11.1	353
51	Pressure-induced topological phase transitions in rocksalt chalcogenides. <i>Physical Review B</i> , 2013, 88, .	1.1	70
52	Effects of strain on ferroelectric polarization and magnetism in orthorhombic $HoMnO_3$. <i>Physical Review B</i> , 2013, 87, .	1.1	17
53	Hybrid Improper Ferroelectricity in a Multiferroic and Magnetoelectric Metal-Organic Framework. <i>Advanced Materials</i> , 2013, 25, 2284-2290.	11.1	280
54	X-Ray Imaging and Multiferroic Coupling of Cycloidal Magnetic Domains in Ferroelectric Monodomain $BiFeO_3$. <i>Physical Review Letters</i> , 2013, 110, 217206.	2.9	67

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55	Strain engineering of topological properties in lead salt semiconductors. Physica Status Solidi - Rapid Research Letters, 2013, 7, 1102-1106.	1.2	26
56	Multiferroics: theory, mechanisms, and materials. Science and Technology of Atomic, Molecular, Condensed Matter and Biological Systems, 2012, 2, 129-161.	0.6	2
57	Ferroelectricity induced by cooperative orbital ordering and Peierls instability. Physical Review B, 2012, 85, .	1.1	9
58	Buckling-induced Zener polaron instability in half-doped manganites. Physical Review B, 2011, 83, .	1.1	16
59	Theoretical investigation of magnetoelectric effects in $Ba_{2-x}CoGe_{x-2}O_{7-2x}$	1.1	38
60	Ferroelectricity due to Orbital Ordering in E_g -Type Undoped Rare-Earth Manganites. Physical Review Letters, 2011, 106, 077201.	2.9	29
61	Mechanism of ferroelectricity in d_{3d^5} perovskites: A model study. Physical Review B, 2011, 84, .	1.1	18
62	Electric Control of Magnetization and Interplay between Orbital Ordering and Ferroelectricity in a Multiferroic Organic Framework. Angewandte Chemie - International Edition, 2011, 50, 5847-5850.	7.2	249
63	Superconductivity in the doped bilayer Hubbard model. Physical Review B, 2009, 80, .	1.1	18
64	Fermi-surface evolution across the magnetic phase transition in the Kondo lattice model. Physical Review B, 2008, 78, .	1.1	54
65	Gutzwiller scheme for electrons and phonons: The half-filled Hubbard-Holstein model. Physical Review B, 2008, 77, .	1.1	16
66	Extended Gutzwiller wave function for the Hubbard-Holstein model. Europhysics Letters, 2007, 79, 47003.	0.7	10
67	Effective electron-phonon coupling and polaronic transition in the presence of strong correlation. Physical Review B, 2006, 73, .	1.1	13
68	Pairing and superconductivity from weak to strong coupling in the attractive Hubbard model. New Journal of Physics, 2005, 7, 7-7.	1.2	83