

Paolo Barone

List of Publications by Year in descending order

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68
papers

3,439
citations

172386

29
h-index

138417

58
g-index

70
all docs

70
docs citations

70
times ranked

4302
citing authors

#	ARTICLE	IF	CITATIONS
1	Electric Control of the Giant Rashba Effect in Bulk GeTe. <i>Advanced Materials</i> , 2013, 25, 509-513.	11.1	353
2	Hybrid Improper Ferroelectricity in a Multiferroic and Magnetoelectric Metal-Organic Framework. <i>Advanced Materials</i> , 2013, 25, 2284-2290.	11.1	280
3	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, 5847-5850.	7.2	249
4	Tunable ferroelectric polarization and its interplay with spin-orbit coupling in tin iodide perovskites. <i>Nature Communications</i> , 2014, 5, 5900.	5.8	247
5	Cross coupling between electric and magnetic orders in a multiferroic metal-organic framework. <i>Scientific Reports</i> , 2014, 4, 6062.	1.6	175
6	Emergence of ferroelectricity and spin-valley properties in two-dimensional honeycomb binary compounds. <i>Physical Review B</i> , 2015, 91, .	1.1	128
7	Spontaneous skyrmionic lattice from anisotropic symmetric exchange in a Ni-halide monolayer. <i>Nature Communications</i> , 2020, 11, 5784.	5.8	113
8	Evidence for a single-layer van der Waals multiferroic. <i>Nature</i> , 2022, 602, 601-605.	13.7	104
9	Position and momentum mapping of vibrations in graphene nanostructures. <i>Nature</i> , 2019, 573, 247-250.	13.7	96
10	Rashba-Dresselhaus spin-splitting in the bulk ferroelectric oxide BiAlO_3 . <i>Physical Review B</i> , 2016, 93, .	13.7	90
11	Possibility of combining ferroelectricity and Rashba-like spin splitting in monolayers of the transition-metal dichalcogenides.		

#	ARTICLE	IF	CITATIONS
19	Fermi-surface evolution across the magnetic phase transition in the Kondo lattice model. Physical Review B, 2008, 78, .	1.1	54
20	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
21	Electronic ferroelectricity induced by charge and orbital orderings. Journal of Physics Condensed Matter, 2014, 26, 103201.	0.7	42
22	Intertwined Rashba, Dirac, and Weyl Fermions in Hexagonal Hyperferroelectrics. Physical Review Letters, 2016, 117, 076401.	2.9	42
23	Persistent spin helix in Rashba-Dresselhaus ferroelectric CsBiNbO_7 . Physical Review Materials, 2019, 1, 011101.	0.9	41
24	Theoretical investigation of magnetoelectric effects in BaCoGeO_2 . Physical Review Materials, 2019, 1, 011102.	1.1	38
25	Coupling Ferroelectricity with Spin-Valley Physics in Oxide-Based Heterostructures. Physical Review Letters, 2015, 115, 037602.	2.9	38
26	Polarization dependence of the third-harmonic generation in multiband superconductors. Physical Review B, 2018, 97, .	1.1	37
27	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
28	An Organic Spin Valve Embedding a Self-Assembled Monolayer of Organic Radicals. Advanced Materials Interfaces, 2016, 3, 1500855.	1.9	32
29	Ferroelectricity due to Orbital Ordering in E -Type Undoped Rare-Earth Manganites. Physical Review Letters, 2011, 106, 077201.	2.9	29
30	Bulk Rashba effect in multiferroics: A theoretical prediction for BiCoO_3 . Physical Review B, 2019, 100, .	1.1	29
31	Strain engineering of topological properties in lead salt semiconductors. Physica Status Solidi - Rapid Research Letters, 2013, 7, 1102-1106.	1.2	26
32	Improper origin of polar displacements at CaTiO_3 and CaMnO_3 twin walls. Physical Review B, 2014, 89, .	1.1	25
33	Jahn-Teller distortions as a novel source of multiferroicity. Physical Review B, 2015, 92, .	1.1	25
34	Mechanisms and origin of multiferroicity. Comptes Rendus Physique, 2015, 16, 143-152.	0.3	25
35	Trilinear-coupling-driven ferroelectricity in HfO_2 . Physical Review Materials, 2021, 5, .	0.9	25
36	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

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37	Structural and ferroelectric transitions in magnetic nickelate $PbNiO_3$. New Journal of Physics, 2014, 16, 015030.	1.2	23
38	Realizing double Dirac particles in the presence of electronic interactions. Physical Review B, 2017, 96, .	1.1	23
39	Giant effective charges and piezoelectricity in gapped graphene. 2D Materials, 2019, 6, 045015.	2.0	23
40	Curved Magnetism in CrI_3 . Physical Review Letters, 2022, 128, 177202.	1.1	23
41	Superconductivity in the doped bilayer Hubbard model. Physical Review B, 2009, 80, .	1.1	18
42	Mechanism of ferroelectricity in $BiFeO_3$ perovskites: A model study. Physical Review B, 2011, 84, .	1.1	18
43	Magnetolectric coupling and spin-induced electrical polarization in metal-organic magnetic chains. Journal of Materials Chemistry C, 2016, 4, 4176-4185.	2.7	18
44	Possible emergence of a skyrmion phase in ferroelectric $GaMnO_3$. Physical Review B, 2019, 99, .	1.1	18
45	Effects of strain on ferroelectric polarization and magnetism in orthorhombic $HoMnO_3$. Physical Review B, 2013, 87, .	1.1	17
46	Dramatic enhancement of spin-spin coupling and quenching of magnetic dimensionality in compressed silver difluoride. Chemical Communications, 2018, 54, 10252-10255.	2.2	17
47	Band splitting with vanishing spin polarizations in noncentrosymmetric crystals. Nature Communications, 2019, 10, 5144.	5.8	17
48	Gutzwiller scheme for electrons and phonons: The half-filled Hubbard-Holstein model. Physical Review B, 2008, 77, .	1.1	16
49	Buckling-induced Zener polaron instability in half-doped manganites. Physical Review B, 2011, 83, .	1.1	16
50	Combined first-principles and thermodynamic approach to MnO -nitronyl nitroxide. Tj ETQq0 0 0 rgBT	1.1	15
51	Effective electron-phonon coupling and polaronic transition in the presence of strong correlation. Physical Review B, 2006, 73, .	1.1	13
52	Magnetolectric coupling in the type-I multiferroic $ScFeO_3$. Physical Review B, 2016, 94, .	1.1	13
53	Deconfinement of Mott localized electrons into topological and spin-orbit-coupled Dirac fermions. Npj Quantum Materials, 2020, 5, .	1.8	13
54	Theory of superconductivity mediated by Rashba coupling in incipient ferroelectrics. Physical Review B, 2022, 105, .	1.1	12

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55	Robustness of Rashba and Dirac Fermions against Strong Disorder. Scientific Reports, 2015, 5, 11285.	1.6	11
56	Quantum spin Hall effect in rutile-based oxide multilayers. Physical Review B, 2016, 94, .	1.1	11
57	Extended Gutzwiller wave function for the Hubbard-Holstein model. Europhysics Letters, 2007, 79, 47003.	0.7	10
58	Half-metallic ferromagnetism in layered CdOHCl induced by hole doping. 2D Materials, 2021, 8, 025027.	2.0	10
59	Superconductivity in tin selenide under pressure. Physical Review Materials, 2019, 3, .	0.9	10
60	Ferroelectricity induced by cooperative orbital ordering and Peierls instability. Physical Review B, 2012, 85, .	1.1	9
61	Topological phase transition coupled with spin-valley physics in ferroelectric oxide heterostructures. Physical Review B, 2017, 95, .	1.1	9
62	First-principles theory of infrared vibrational spectroscopy of metals and semimetals: Application to graphite. Physical Review B, 2021, 103, .	1.1	9
63	Charge-transfer and excitations in AgF_2 . Physical Review B, 2022, 105, .	1.3	7
64	Electronic bands and optical conductivity of the Dzyaloshinsky-Moriya multiferroic $\text{Ba}_3\text{NbFe}_3\text{Si}_2\text{O}_{14}$. Physical Review B, 2017, 96, .	1.1	5
65	Absolute crystal and magnetic chiralities in the langasite compound $\text{Ba}_3\text{NbFe}_3\text{Si}_2\text{O}_{14}$ determined by polarized neutron and x-ray scattering. Physical Review B, 2020, 102, .	1.1	4
66	Analogies between Jahn-Teller and Rashba spin physics. International Journal of Quantum Chemistry, 2016, 116, 1442-1450.	1.0	3
67	Multiferroics: theory, mechanisms, and materials. Science and Technology of Atomic, Molecular, Condensed Matter and Biological Systems, 2012, 2, 129-161.	0.6	2
68	Chirality and Magnetocaloricity in GdFeTeO_6 as Compared to GdGaTeO_6 . Materials, 2021, 14, 5954.	1.3	2