

Danilo Puggioni

List of Publications by Year in descending order

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42
papers

1,305
citations

430874

18
h-index

345221

36
g-index

42
all docs

42
docs citations

42
times ranked

1945
citing authors

#	ARTICLE	IF	CITATIONS
1	Polar metals by geometric design. <i>Nature</i> , 2016, 533, 68-72.	27.8	262
2	Designing a robustly metallic noncentrosymmetric ruthenate oxide with large thermopower anisotropy. <i>Nature Communications</i> , 2014, 5, 3432.	12.8	134
3	Variational pseudo-self-interaction-corrected density functional approach to the ab initio description of correlated solids and molecules. <i>Physical Review B</i> , 2011, 84, .	3.2	83
4	Crystal-Chemistry Guidelines for Noncentrosymmetric A_2BO_4 Ruddlesden-Popper Oxides. <i>Inorganic Chemistry</i> , 2014, 53, 336-348.	4.0	73
5	Strain-induced nonsymmorphic symmetry breaking and removal of Dirac semimetallic nodal line in an orthoperovskite iridate. <i>Physical Review B</i> , 2016, 93, .	3.2	67
6	Exchange interactions and magnetic phases of transition metal oxides: Benchmarking advanced ab initio methods. <i>Physical Review B</i> , 2011, 84, .	3.2	66
7	Design of a Mott Multiferroic from a Nonmagnetic Polar Metal. <i>Physical Review Letters</i> , 2015, 115, 087202.	7.8	64
8	Observation of Quasi-Two-Dimensional Polar Domains and Ferroelastic Switching in a Metal, $Ca_3Ru_2O_7$. <i>Nano Letters</i> , 2018, 18, 3088-3095.	9.1	62
9	Ordering and multiple phase transitions in ultrathin nickelate superlattices. <i>Physical Review B</i> , 2012, 86, .	3.2	41
10	Spectral Addressability in a Modular Two Qubit System. <i>Journal of the American Chemical Society</i> , 2021, 143, 8069-8077.	13.7	39
11	Evidence for the weakly coupled electron mechanism in an Anderson-Blount polar metal. <i>Nature Communications</i> , 2019, 10, 3217.	12.8	36
12	Linear and nonlinear optical probe of the ferroelectric-like phase transition in a polar metal, $LiOsO_3$. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	26
13	Jahn-Teller stabilization of magnetic and orbital ordering in rocksalt CuO . <i>Physical Review B</i> , 2009, 80, .	3.2	25
14	Polar metals as electrodes to suppress the critical-thickness limit in ferroelectric nanocapacitors. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	23
15	Viewpoint: Atomic-Scale Design Protocols toward Energy, Electronic, Catalysis, and Sensing Applications. <i>Inorganic Chemistry</i> , 2019, 58, 14939-14980.	4.0	23
16	Assessing exchange-correlation functional performance in the chalcogenide lacunar spinels GaM		

#	ARTICLE	IF	CITATIONS
19	Persistent polar distortions from covalent interactions in doped BaTiO_3 . Physical Review B, 2020, 102, .	3.2	18
20	Learning from Correlations Based on Local Structure: Rare-Earth Nickelates Revisited. Journal of Chemical Information and Modeling, 2018, 58, 2491-2501.	5.4	16
21	Chemical control of spin-lattice relaxation to discover a room temperature molecular qubit. Chemical Science, 2022, 13, 7034-7045.	7.4	16
22	Cooperative interactions govern the fermiology of the polar metal $\text{Ca}_3\text{Ru}_2\text{O}_7$. Physical Review Research, 2020, 2, .	3.6	14
23	Magnetoelectric coupling in the type-I multiferroic ScFeO_3 . Physical Review B, 2016, 94, .	3.2	13
24	Synthetic investigation of competing magnetic interactions in 2D metal-chloranilate radical frameworks. Chemical Science, 2020, 11, 5922-5928.	7.4	13
25	Controlled Doping of Naphthalene-Imide-Based 2D Polymers. Advanced Materials, 2022, 34, e2101932.	21.0	13
26	Design of Heteroanionic MoON Exhibiting a Peierls Metal-Insulator Transition. Physical Review Letters, 2019, 123, 236402.	7.8	12
27	Uncorrelated Bi off-centering and the insulator-to-metal transition in ruthenium $\text{A}_2\text{Ru}_2\text{O}_7$ pyrochlores. Physical Review Materials, 2019, 3, .	2.4	12
28	Fermi-surface pockets in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. Comparison of <i>ab initio</i> techniques. Physical Review B, 2009, 79, .	3.2	11
29	Crystal structure stability and electronic properties of the layered nickelate La_4O_{10} . Physical Review B, 2018, 97, .	3.2	8
30	Ultrafast quasiparticle dynamics in the correlated semimetal $\text{Ca}_3\text{Ru}_2\text{O}_7$. Physical Review B, 2019, 99, .	3.2	8
31	Strong Magnetocrystalline Anisotropy Arising from Metal-Ligand Covalency in a Metal-Organic Candidate for 2D Magnetic Order. Chemistry of Materials, 2021, 33, 8712-8721.	6.7	8
32	Comprehensive magnetic phase diagrams of the polar metal $\text{Ca}_3\text{Ru}_2\text{O}_7$.		

#	ARTICLE	IF	CITATIONS
37	Design of a polar half-metallic ferromagnet with accessible and enhanced electric polarization. Physical Review Materials, 2018, 2, .	2.4	6
38	Interplay between electron correlations and polar displacements in metallic SrEuMo ₂ O ₆ . Physical Review B, 2016, 93, .	3.2	5
39	Evidence for an extended critical fluctuation region above the polar ordering transition in LiOsO ₃ . Physical Review Research, 2020, 2, .	3.6	5
40	Pressure-Induced Collapse of Magnetic Order in Jarosite. Physical Review Letters, 2020, 125, 077202.	7.8	3
41	Fermi-surface pockets in magnetic underdoped cuprates from first principles. Europhysics Letters, 2009, 88, 67009.	2.0	2
42	Linear optical and electronic properties of the polar metallic ruthenate (Sr,Ca)Ru ₂ O ₆ . Journal of Physics Condensed Matter, 2014, 26, 265501.	1.8	2