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	Controlled nâ€Doping of Naphthaleneâ€Diimideâ€Based 2D Polymers. Advanced Materials, 2022, 34, e2101932.	21.0	13
2	Interlayer magnetophononic coupling in MnBi2Te4. Nature Communications, 2022, 13, 1929.	12.8	22
3	Chemical control of spinâ€“lattice relaxation to discover a room temperature molecular qubit. Chemical Science, 2022, 13, 7034-7045.	7.4	16
4	Local Distortions and Metalâ€“Semiconductorâ€“Metal Transition in Quasi-One-Dimensional Nanowire Compounds AV₃Q₃O_{Î´} (A = K, Rb, Cs and Q = Se, Te). Chemistry of Materials, 2021, 33, 2611-2623.	6.7	6
5	Spectral Addressability in a Modular Two Qubit System. Journal of the American Chemical Society, 2021, 143, 8069-8077.	13.7	39
6	Strong Magnetocrystalline Anisotropy Arising from Metalâ€“Ligand Covalency in a Metalâ€“Organic Candidate for 2D Magnetic Order. Chemistry of Materials, 2021, 33, 8712-8721.	6.7	8
7	Persistent polar distortions from covalent interactions in doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>BaTiO</mml:mi><mml:mn>3</mml:mn></mml:msub><i> Physical Review B, 2020, 102, .	3.2	18
8	Pressure-Induced Collapse of Magnetic Order in Jarosite. Physical Review Letters, 2020, 125, 077202.	7.8	3
9	Synthetic investigation of competing magnetic interactions in 2D metalâ€“chloranilate radical frameworks. Chemical Science, 2020, 11, 5922-5928.	7.4	13
10	Cooperative interactions govern the fermiology of the polar metal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ca</mml:mi><mml:mn>3</mml:mn></mml: mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review Research, 2020, 2, .	3.6	14
11	Evidence for an extended critical fluctuation region above the polar ordering transition in LiOsO3. Physical Review Research, 2020, 2, .	3.6	5
12	Evidence for the weakly coupled electron mechanism in an Anderson-Blount polar metal. Nature Communications, 2019, 10, 3217.	12.8	36
13	Viewpoint: Atomic-Scale Design Protocols toward Energy, Electronic, Catalysis, and Sensing Applications. Inorganic Chemistry, 2019, 58, 14939-14980.	4.0	23
14	Atomic and electronic structure of domains walls in a polar metal. Physical Review B, 2019, 99, .	3.2	19
15	Assessing exchange-correlation functional performance in the chalcogenide lacunar spinels <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Ga</mml:mi><mml:msub><mml:mi>M</mml:mi><mml:mi> <mml:math		

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19	Design of Heteroanionic MoON Exhibiting a Peierls Metal-Insulator Transition. Physical Review Letters, 2019, 123, 236402.	7.8	12
20	High-pressure synthesis of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>BiV</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> perovskite. Physical Review Materials, 2019, 3, .	2.4	7
21	Uncorrelated Bi off-centering and the insulator-to-metal transition in ruthenium A2Ru2O7 pyrochlores. Physical Review Materials, 2019, 3, .	2.4	12
22	Crystal structure stability and electronic properties of the layered nickelate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>La</mml:mi><mml:mn>4</mml:mn></mml:r mathvariant="normal">O</mml:mi><mml:mn>10</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2018, 97, .	3.2	8
23	Observation of Quasi-Two-Dimensional Polar Domains and Ferroelastic Switching in a Metal, Ca₃Ru₂O₇. Nano Letters, 2018, 18, 3088-3095.	9.1	62
24	Polar metals as electrodes to suppress the critical-thickness limit in ferroelectric nanocapacitors. Journal of Applied Physics, 2018, 124, .	2.5	23
25	Linear and nonlinear optical probe of the ferroelectric-like phase transition in a polar metal, LiOsO3. Applied Physics Letters, 2018, 113, .	3.3	26
26	Learning from Correlations Based on Local Structure: Rare-Earth Nickelates Revisited. Journal of Chemical Information and Modeling, 2018, 58, 2491-2501.	5.4	16
27	Design of a polar half-metallic ferromagnet with accessible and enhanced electric polarization. Physical Review Materials, 2018, 2, .	2.4	6
28	Comment on â€œHigh-pressure synthesis of orthorhombic SrIrO3 perovskite and its positive magnetoresistanceâ€•[J. Appl. Phys. 103, 103706 (2008)]. Journal of Applied Physics, 2016, 119, 086102.	2.5	6
29	Polar metals by geometric design. Nature, 2016, 533, 68-72.	27.8	262
30	Strain-induced nonsymmorphic symmetry breaking and removal of Dirac semimetallic nodal line in an orthoperovskite iridate. Physical Review B, 2016, 93, .	3.2	67
31	Interplay between electron correlations and polar displacements in metallicSrEuMo2O6. Physical Review B, 2016, 93, .	3.2	5
32	Magnetoelectric coupling in the type-I multiferroic ScFeO3. Physical Review B, 2016, 94, .	3.2	13
33	Design of a Mott Multiferroic from a Nonmagnetic Polar Metal. Physical Review Letters, 2015, 115, 087202.	7.8	64
34	Designing a robustly metallic noncenstrosymmetric ruthenate oxide with large thermopower anisotropy. Nature Communications, 2014, 5, 3432.	12.8	134
35	Crystal-Chemistry Guidelines for Noncentrosymmetric A₂BO₄ Ruddlesdenâ^'Popper Oxides. Inorganic Chemistry, 2014, 53, 336-348.	4.0	73
36	Linear optical and electronic properties of the polar metallic ruthenate (Sr,Ca)Ru2O6. Journal of Physics Condensed Matter, 2014, 26, 265501.	1.8	2

#	Article	IF	Citations
37	Ordering and multiple phase transitions in ultrathin nickelate superlattices. Physical Review B, 2012, 86, .	3.2	41
38	Exchange interactions and magnetic phases of transition metal oxides: Benchmarking advancedab initiomethods. Physical Review B, 2011, 84, .	3.2	66
39	Variational pseudo-self-interaction-corrected density functional approach to theab initiodescription of correlated solids and molecules. Physical Review B, 2011, 84, .	3.2	83
40	Fermi-surface pockets in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>YBa</mml:mtext></mml:mrow><mml:mn>2</mml:mn> Comparison ofab initiotechniques. Physical Review B, 2009, 79, .	3.2	11
41	Fermi-surface pockets in magnetic underdoped cuprates from first principles. Europhysics Letters, 2009, 88, 67009.	2.0	2
42	Jahn-Teller stabilization of magnetic and orbital ordering in rocksalt CuO. Physical Review B, 2009, 80, .	3.2	25