

Alessandro Barla

List of Publications by Year in descending order

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51
papers

1,713
citations

279798

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276875

41
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52
docs citations

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times ranked

3494
citing authors

#	ARTICLE	IF	CITATIONS
1	Slow Magnetic Relaxation of Dy Adatoms with In-Plane Magnetic Anisotropy on a Two-Dimensional Electron Gas. ACS Nano, 2022, 16, 11182-11193.	14.6	9
2	Correlation between Electronic Configuration and Magnetic Stability in Dysprosium Single Atom Magnets. Nano Letters, 2021, 21, 8266-8273.	9.1	20
3	Mapping Orbital-Resolved Magnetism in Single Lanthanide Atoms. ACS Nano, 2021, 15, 16162-16171.	14.6	7
4	Non-local effect of impurity states on the exchange coupling mechanism in magnetic topological insulators. Npj Quantum Materials, 2020, 5, .	5.2	8
5	Molecular Approach for Engineering Interfacial Interactions in Magnetic/Topological Insulator Heterostructures. ACS Nano, 2020, 14, 6285-6294.	14.6	9
6	In operando adjustable orbital polarization in LaNiO3 thin films. Physical Review Materials, 2020, 4, .	2.4	3
7	Systematics of electronic and magnetic properties in the transition metal doped $Sb_{2-x}Bi_xSe_3$ quantum anomalous Hall platform. Physical Review B, 2018, 97, .		
8	Evidence of \hat{I}^2 -antimonene at the $Sb/Bi_{2-x}Se_{3-x}$ interface. Nanotechnology, 2018, 29, 065704.	2.6	26
9	Towards microscopic control of the magnetic exchange coupling at the surface of a topological insulator. JPhys Materials, 2018, 1, 015002.	4.2	18
10	Stable Fe nanomagnets encapsulated inside vertically-aligned carbon nanotubes. Physical Chemistry Chemical Physics, 2017, 19, 32079-32085.	2.8	3
11	Identification of $Ni_{2-x}C_x$ electronic states in graphene-Ni(111) growth through resonant and dichroic angle-resolved photoemission at the C K -edge. Physical Review B, 2017, 96, .	3.2	3
12	Strain-Driven Orbital and Magnetic Orders and Phase Separation in Epitaxial Half-Doped Manganite Films for Tunneling Devices. Physical Review Applied, 2016, 6, .	3.8	29
13	Publisher's Note: Spin-lattice coupling across the singular magnetostructural transition in $Pr_{1-x}Mn_xO_5$ x-ray magnetic circular dichroism [Phys. Rev. B 92, 245136 (2015)]. Physical Review B, 2016, 93, .	3.2	1
14	Design and performance of BOREAS, the beamline for resonant X-ray absorption and scattering experiments at the ALBA synchrotron light source. Journal of Synchrotron Radiation, 2016, 23, 1507-1517.	2.4	110
15	Dual nature of magnetic dopants and competing trends in topological insulators. Nature Communications, 2016, 7, 12027.	12.8	67
16	Complex Magnetic Exchange Coupling between Co Nanostructures and Ni(111) across Epitaxial Graphene. ACS Nano, 2016, 10, 1101-1107.	14.6	27
17	Spin-lattice coupling across the singular magnetostructural transition in $Pr_{1-x}Mn_xO_5$ x-ray magnetic circular dichroism [Phys. Rev. B 92, 245136 (2015)]. Physical Review B, 2016, 93, .	3.2	5
18	Pressure-Induced Inhomogeneous Chiral-Spin Ground State in FeGe. Physical Review Letters, 2015, 114, 016803.	7.8	17

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19	Surface Charge and Coating of CoFe_2O_4 Nanoparticles: Evidence of Preserved Magnetic and Electronic Properties. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25529-25541.	3.1	81
20	Two-Dimensional Electron Gases at LaAlO_3 Orbital Symmetry and Hierarchy Engineered by Crystal Orientation. <i>Physical Review Letters</i> , 2014, 113, 156802.	7.8	38
21	Fieldlike and antidamping spin-orbit torques in as-grown and annealed Ta/CoFeB/MgO layers. <i>Physical Review B</i> , 2014, 89, .	3.2	164
22	Direct observation of rotatable uncompensated spins in the exchange bias system Co/CoO/MgO. <i>Nanoscale</i> , 2013, 5, 10236.	5.6	26
23	The Alba ray tracing code: ART. <i>Proceedings of SPIE</i> , 2013, , .	0.8	3
24	Lattice dynamics of the rare-earth element samarium. <i>Physical Review B</i> , 2013, 88, .	3.2	2
25	Revealing the insulating gap in $\text{La}^{2-}\text{NaV}_2\text{O}_5$ with resonant inelastic x-ray scattering. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 325402.	1.8	1
26	Surface symmetry-breaking and strain effects on orbital occupancy in transition metal perovskite epitaxial films. <i>Nature Communications</i> , 2012, 3, 1189.	12.8	273
27	Loss of single-molecule-magnet behavior of a Mn ²⁺ -based compound assembled in a monolayer. <i>European Physical Journal B</i> , 2010, 73, 103-108.	1.5	21
28	Phonon density of states of SmS under high pressure determined by ¹⁴⁹ Sm nuclear inelastic scattering. <i>Physical Review B</i> , 2008, 78, .	3.2	1
29	Paramagnetism of the Co sublattice in ferromagnetic $\text{Zn}_1\text{Co}_x\text{O}$ films. <i>Physical Review B</i> , 2007, 76, .	3.2	10
30	Magnetic Interactions in $\text{Cu}^{\text{II}}\text{Ln}^{\text{III}}$ Cyclic Tetranuclear Complexes: Is It Possible to Explain the Occurrence of SMM Behavior in $\text{Cu}^{\text{II}}\text{Tb}^{\text{III}}$ and $\text{Cu}^{\text{II}}\text{Dy}^{\text{III}}$ Complexes?. <i>Inorganic Chemistry</i> , 2007, 46, 4458-4468.	4.0	82
31	Absence of tunnel magnetoresistance in Sr ₂ FeMoO ₆ -based magnetic tunnel junctions. <i>Chemical Physics Letters</i> , 2007, 434, 276-279.	2.6	25
32	Can undoped semiconducting oxides be ferromagnetic?. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007, 4, 4461-4466.	0.8	33
33	Nuclear resonant forward scattering of synchrotron radiation from ¹²¹ Sb at 37.13 keV. <i>Europhysics Letters</i> , 2006, 74, 170-176.	2.0	23
34	Magnetism under Pressure with Synchrotron Radiation. <i>Lecture Notes in Physics</i> , 2006, , 375-399.	0.7	6
35	Divalent-to-trivalent transition of Sm in SmS: Implications for the high-pressure magnetically ordered state. <i>Physical Review B</i> , 2006, 73, .	3.2	31
36	Probing the (p,T) phase diagram of CeFe ₂ and SmS using resonant x-ray scattering. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S3149-S3154.	1.8	0

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37	Intermediate valence behaviour under pressure: how precisely can we probe it by means of resonant inelastic x-ray emission?. Journal of Physics Condensed Matter, 2005, 17, S849-S858.	1.8	10
38	Delocalization of the U 5f magnetic moments in U(In _{0.6} Sn _{0.4}) ₃ and UNiSn under high pressure. Journal of Physics Condensed Matter, 2005, 17, S859-S870.	1.8	1
39	Structural and electronic transitions in the low-temperature, high-pressure phase of SmS. Physical Review B, 2005, 71, .	3.2	46
40	Pressure driven collapse of the magnetism in the Kondo insulator UNiSn. Physical Review B, 2005, 71, .	3.2	1
41	Crystal fields, exchange, and conduction electron polarization in SmAl ₂ . Physical Review B, 2005, 71, .	3.2	8
42	Valence and magnetic instabilities in Sm compounds at high pressures. Journal of Physics Condensed Matter, 2005, 17, S837-S848.	1.8	14
43	High-Pressure Ground State of SmB ₆ : Electronic Conduction and Long Range Magnetic Order. Physical Review Letters, 2005, 94, 166401.	7.8	78
44	Kondo Engineering: From Single Kondo Impurity to the Kondo Lattice. Journal of the Physical Society of Japan, 2005, 74, 178-185.	1.6	14
45	The observation of the insulator-metal transition in EuNiO ₃ under high pressure. Journal of Physics Condensed Matter, 2004, 16, 3355-3360.	1.8	14
46	Pressure-induced magnetic phase transition in gold-phase SmS. Physical Review B, 2004, 70, .	3.2	38
47	Sm magnetism in the layered compound SmMn ₂ Ge ₂ . Physical Review B, 2004, 69, .	3.2	13
48	Transition from the antiferromagnetic to a nonmagnetic state in FeBO ₃ under high pressure. JETP Letters, 2001, 74, 24-27.	1.4	21
49	High-energy-resolution x-ray optics with refractive collimators. Applied Physics Letters, 2000, 77, 31-33.	3.3	51
50	Direct determination of the phonon density of states in ¹¹⁹ Sn. Physical Review B, 2000, 61, R14881-R14884.	3.2	27
51	Nuclear inelastic scattering of synchrotron radiation by ¹¹⁹ Sn. Physical Review B, 1998, 58, 254-257.	3.2	33