

# Alessandro Barla

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

1,713  
citations

279798

23  
h-index

276875

41  
g-index

52  
all docs

52  
docs citations

52  
times ranked

3494  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Paramagnetism of the Co sublattice in ferromagnetic $Zn_{1-x}Co_xO$ films. <i>Physical Review B</i> , 2007, 76, .	12.8	110
4	Design and performance of BOREAS, the beamline for resonant X-ray absorption and scattering experiments at the ALBA synchrotron light source. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 1507-1517.	2.4	110
5	Magnetic Interactions in $CuL_2LnIII$ Cyclic Tetranuclear Complexes: Is It Possible to Explain the Occurrence of SMM Behavior in $CuL_2TbIII$ and $CuL_2DyIII$ Complexes?. <i>Inorganic Chemistry</i> , 2007, 46, 4458-4468.	4.0	82
6	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
7	High-Pressure Ground State of $SrB_6$ : Electronic Conduction and Long Range Magnetic Order. <i>Physical Review Letters</i> , 2005, 94, 166401.	7.8	78
8	Dual nature of magnetic dopants and competing trends in topological insulators. <i>Nature Communications</i> , 2016, 7, 12027.	12.8	67
9	High-energy-resolution x-ray optics with refractive collimators. <i>Applied Physics Letters</i> , 2000, 77, 31-33.	3.3	51
10	Structural and electronic transitions in the low-temperature, high-pressure phase of $SrS$ . <i>Physical Review B</i> , 2005, 71, .	3.2	46
11	Systematics of electronic and magnetic properties in the transition metal doped $Sr_{1-x}La_xS$ quantum anomalous Hall platform. <i>Physical Review B</i> , 2018, 97, .	3.2	46
12	Pressure-induced magnetic phase transition in gold-phase $SrS$ . <i>Physical Review B</i> , 2004, 70, .	3.2	38
13	Two-Dimensional Electron Gases at $LaAlO_3/SrTiO_3$ Interfaces: Orbital Symmetry and Hierarchy Engineered by Crystal Orientation. <i>Physical Review Letters</i> , 2014, 113, 156802.	7.8	38
14	Nuclear inelastic scattering of synchrotron radiation by $^{119}Sn$ . <i>Physical Review B</i> , 1998, 58, 254-257.	3.2	33
15	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
16	Divalent-to-trivalent transition of $Sr$ in $SrS$ : Implications for the high-pressure magnetically ordered state. <i>Physical Review B</i> , 2006, 73, .	3.2	31
17	Strain-Driven Orbital and Magnetic Orders and Phase Separation in Epitaxial Half-Doped Manganite Films for Tunneling Devices. <i>Physical Review Applied</i> , 2016, 6, .	3.8	29
18	Direct determination of the phonon density of states in $^{119}Sn$ . <i>Physical Review B</i> , 2000, 61, R14881-R14884.	3.2	27

#	ARTICLE	IF	CITATIONS
19	Complex Magnetic Exchange Coupling between Co Nanostructures and Ni(111) across Epitaxial Graphene. ACS Nano, 2016, 10, 1101-1107.	14.6	27
20	Direct observation of rotatable uncompensated spins in the exchange bias system Co/CoO/MgO. Nanoscale, 2013, 5, 10236.	5.6	26
21	Evidence of $\hat{I}^2$ -antimonene at the Sb/Bi <sub>2</sub> Se <sub>3</sub> interface. Nanotechnology, 2018, 29, 065704.	2.6	26
22	Absence of tunnel magnetoresistance in Sr <sub>2</sub> FeMoO <sub>6</sub> -based magnetic tunnel junctions. Chemical Physics Letters, 2007, 434, 276-279.	2.6	25
23	Nuclear resonant forward scattering of synchrotron radiation from <sup>121</sup> Sb at 37.13 keV. Europhysics Letters, 2006, 74, 170-176.	2.0	23
24	Transition from the antiferromagnetic to a nonmagnetic state in FeBO <sub>3</sub> under high pressure. JETP Letters, 2001, 74, 24-27.	1.4	21
25	Loss of single-molecule-magnet behavior of a Mn <sub>12</sub> -based compound assembled in a monolayer. European Physical Journal B, 2010, 73, 103-108.	1.5	21
26	Correlation between Electronic Configuration and Magnetic Stability in Dysprosium Single Atom Magnets. Nano Letters, 2021, 21, 8266-8273.	9.1	20
27	Towards microscopic control of the magnetic exchange coupling at the surface of a topological insulator. JPhys Materials, 2018, 1, 015002.	4.2	18
28	Pressure-Induced Inhomogeneous Chiral-Spin Ground State in FeGe. Physical Review Letters, 2015, 114, 016803.	7.8	17
29	The observation of the insulator-metal transition in EuNiO <sub>3</sub> under high pressure. Journal of Physics Condensed Matter, 2004, 16, 3355-3360.	1.8	14
30	Valence and magnetic instabilities in Sm compounds at high pressures. Journal of Physics Condensed Matter, 2005, 17, S837-S848.	1.8	14
31	Kondo Engineering: From Single Kondo Impurity to the Kondo Lattice. Journal of the Physical Society of Japan, 2005, 74, 178-185.	1.6	14
32	Smmagnetism in the layered compound SmMn <sub>2</sub> Ge <sub>2</sub> . Physical Review B, 2004, 69, .	3.2	13
33	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
34	Molecular Approach for Engineering Interfacial Interactions in Magnetic/Topological Insulator Heterostructures. ACS Nano, 2020, 14, 6285-6294.	14.6	9
35	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
36	Crystal fields, exchange, and conduction electron polarization in SmAl <sub>2</sub> . Physical Review B, 2005, 71, .	3.2	8

#	ARTICLE	IF	CITATIONS
37	Non-local effect of impurity states on the exchange coupling mechanism in magnetic topological insulators. Npj Quantum Materials, 2020, 5, .	5.2	8
38	Mapping Orbital-Resolved Magnetism in Single Lanthanide Atoms. ACS Nano, 2021, 15, 16162-16171.	14.6	7
39	Magnetism under Pressure with Synchrotron Radiation. Lecture Notes in Physics, 2006, , 375-399.	0.7	6
40	Spin-lattice coupling across the singular magnetostructural transition in $P\text{r}_{1-x}\text{R}_x\text{MnO}_5$ ( $\text{R} = \text{Ca}, \text{Sr}, \text{Co}$ ). Physical Review B, 2017, 96, .	3.2	5
41	The Alba ray tracing code: ART. Proceedings of SPIE, 2013, , .	0.8	3
42	Stable Fe nanomagnets encapsulated inside vertically-aligned carbon nanotubes. Physical Chemistry Chemical Physics, 2017, 19, 32079-32085.	2.8	3
43	Identification of $\text{Ni}^{2+}$ electronic states in graphene-Ni(111) growth through resonant and dichroic angle-resolved photoemission at the C $1s$ edge. Physical Review B, 2017, 96, .	3.2	3
44	In operando adjustable orbital polarization in LaNiO <sub>3</sub> thin films. Physical Review Materials, 2020, 4, .	2.4	3
45	Lattice dynamics of the rare-earth element samarium. Physical Review B, 2013, 88, .	3.2	2
46	Delocalization of the U 5f magnetic moments in U(In <sub>0.6</sub> Sn <sub>0.4</sub> ) <sub>3</sub> and UNiSn under high pressure. Journal of Physics Condensed Matter, 2005, 17, S859-S870.	1.8	1
47	Pressure driven collapse of the magnetism in the Kondo insulator UNiSn. Physical Review B, 2005, 71, .	3.2	1
48	Phonon density of states of SmS under high pressure determined by <sup>149</sup> Mn nuclear inelastic scattering. Physical Review B, 2008, 78, .	3.2	1
49	Revealing the insulating gap in $\text{La}^{2+}\text{NaV}_2\text{O}_5$ with resonant inelastic x-ray scattering. Journal of Physics Condensed Matter, 2012, 24, 325402.	1.8	1
50	Publisher's Note: Spin-lattice coupling across the singular magnetostructural transition in $\text{Pr}_{1-x}\text{R}_x\text{MnO}_5$ ( $\text{R} = \text{Ca}, \text{Sr}, \text{Co}$ ) x-ray magnetic circular dichroism [Phys. Rev. B 92, 245136 (2015)]. Physical Review B, 2016, 93, .	3.2	1
51	Probing the (p,T) phase diagram of CeFe <sub>2</sub> and SmS using resonant x-ray scattering. Journal of Physics Condensed Matter, 2005, 17, S3149-S3154.	1.8	0