

# Pierluigi Gargiani

## List of Publications by Year in descending order

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81  
papers

1,918  
citations

218381

26  
h-index

276539

41  
g-index

84  
all docs

84  
docs citations

84  
times ranked

3041  
citing authors

#	ARTICLE	IF	CITATIONS
1	Intrinsic 2D-XY ferromagnetism in a van der Waals monolayer. <i>Science</i> , 2021, 374, 616-620.	6.0	116
2	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.	1.0	110
3	Localized and Dispersive Electronic States at Ordered FePc and CoPc Chains on Au(110). <i>Journal of Physical Chemistry C</i> , 2010, 114, 21638-21644.	1.5	91
4	Metal-phthalocyanine chains on the Au(110) surface: Interaction states versus $d$ -metal states occupancy. <i>Physical Review B</i> , 2010, 81, .	1.1	90
5	Absence of Ferromagnetism in $VSe_2$ Caused by Its Charge Density Wave Phase. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27802-27810.	1.5	88
6	Interfacial Dzyaloshinskii-Moriya interaction arising from rare-earth orbital magnetism in insulating magnetic oxides. <i>Nature Communications</i> , 2020, 11, 1090.	5.8	86
7	Spin and orbital configuration of metal phthalocyanine chains assembled on the Au(110) surface. <i>Physical Review B</i> , 2013, 87, .	1.1	67
8	Unraveling Dzyaloshinskii-Moriya Interaction and Chiral Nature of Graphene/Cobalt Interface. <i>Nano Letters</i> , 2018, 18, 5364-5372.	4.5	60
9	Voltage control of ferrimagnetic order and voltage-assisted writing of ferrimagnetic spin textures. <i>Nature Nanotechnology</i> , 2021, 16, 981-988.	15.6	45
10	Metal-phthalocyanine ordered layers on Au(110): Metal-dependent adsorption energy. <i>Journal of Chemical Physics</i> , 2014, 140, 244704.	1.2	43
11	Direct observation of multivalent states and $f$ - $d$ charge transfer in Ce-doped yttrium iron garnet thin films. <i>Physical Review B</i> , 2017, 96, .	1.1	42
12	Systematics of electronic and magnetic properties in the transition metal doped $Sb_{1-x}Mn_x$ quantum anomalous Hall platform. <i>Physical Review B</i> , 2018, 97, .	1.2	42
13	Emerging Diluted Ferromagnetism in High- $T_c$ Superconductors Driven by Point Defect Clusters. <i>Advanced Science</i> , 2016, 3, 1500295.	5.6	41
14	High Temperature Ferromagnetism in a $GdAg_2$ Monolayer. <i>Nano Letters</i> , 2016, 16, 4230-4235.	4.5	40
15	Graphene-based synthetic antiferromagnets and ferrimagnets. <i>Nature Communications</i> , 2017, 8, 699.	5.8	39
16	Molecule-Driven Substrate Reconstruction in the Two-Dimensional Self-Organization of Fe-Phthalocyanines on Au(110). <i>Journal of Physical Chemistry C</i> , 2012, 116, 6251-6258.	1.5	38
17	Two-Dimensional Electron Gases at $LaAlO_3/SrTiO_3$ Orbital Symmetry and Hierarchy Engineered by Crystal Orientation. <i>Physical Review Letters</i> , 2014, 113, 156802.	2.9	38
18	Absence of magnetic proximity effects in magnetoresistive $Pt/CoF_2$ hybrid interfaces. <i>Physical Review B</i> , 2016, 93, .	1.1	35

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19	Ferromagnetic and Antiferromagnetic Coupling of Spin Molecular Interfaces with High Thermal Stability. <i>Nano Letters</i> , 2018, 18, 2268-2273.	4.5	35
20	Interface-Assisted Sign Inversion of Magnetoresistance in Spin Valves Based on Novel Lanthanide Quinoline Molecules. <i>Advanced Functional Materials</i> , 2018, 28, 1702099.	7.8	35
21	Electronic and spin states of $\text{SrRuO}_3$ thin films: An x-ray magnetic circular dichroism study. <i>Physical Review B</i> , 2015, 91, .	4.5	35
22	Magnetoresistance in Hybrid $\text{Pt/CoFe}_2\text{O}_4$ Bilayers Controlled by Competing Spin Accumulation and Interfacial Chemical Reconstruction. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 12031-12041.	4.0	28
23	Robust Single Molecule Magnet Monolayers on Graphene and Graphite with Magnetic Hysteresis up to 28Å. <i>Advanced Functional Materials</i> , 2021, 31, 2105516.	7.8	28
24	Control of Electron Injection Barrier by Electron Doping of Metal Phthalocyanines. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12258-12264.	1.5	27
25	Coexistence of Negatively and Positively Buckled Isomers on n-Doped $\text{Si}(111)-1 \times 1$ . <i>Physical Review Letters</i> , 2011, 106, 067601.	2.9	27
26	Structural Phases of Ordered FePc-Nanochains Self-Assembled on Au(110). <i>Langmuir</i> , 2012, 28, 13232-13240.	1.6	26
27	Graphene-Induced Magnetic Anisotropy of a Two-Dimensional Iron Phthalocyanine Network. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1690-1695.	2.1	25
28	FePc Adsorption on the Moiré Superstructure of Graphene Intercalated with a Cobalt Layer. <i>Journal of Physical Chemistry C</i> , 2017, 121, 1639-1647.	1.5	25
29	Probing magnetic coupling between $\text{LnPc}_2$ (Ln = Tb, Er) molecules and the graphene/Ni (111) substrate with and without Au-intercalation: role of the dipolar field. <i>Nanoscale</i> , 2018, 10, 277-283.	2.8	25
30	Imaging Nanometer Phase Coexistence at Defects During the Insulator-Metal Phase Transformation in $\text{VO}_2$ Thin Films by Resonant Soft X-ray Holography. <i>Nano Letters</i> , 2018, 18, 3449-3453.	4.5	24
31	Absence of Magnetic Proximity Effect at the Interface of $\text{Bi}_2\text{Te}_3$ and $\text{Bi}_2\text{Se}_3$		

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37	Competing magnetic states in silicene and germanene 2D ferromagnets. Nano Research, 2020, 13, 3396-3402.	5.8	19
38	Van der Waals epitaxy growth of 2D ferromagnetic Cr(1+ $\delta$ )Te <sub>2</sub> nanolayers with concentration-tunable magnetic anisotropy. Applied Physics Reviews, 2022, 9, .	5.5	19
39	Towards microscopic control of the magnetic exchange coupling at the surface of a topological insulator. JPhys Materials, 2018, 1, 015002.	1.8	18
40	Magnetic stability against calcining of microwave-synthesized CoFe <sub>2</sub> O <sub>4</sub> nanoparticles. New Journal of Chemistry, 2016, 40, 6890-6898.	1.4	16
41	Imaging the spin chirality of ferrimagnetic Néel skyrmions stabilized on topological antiferromagnetic $\text{Mn}_3\text{Sn}$ . Physical Review Materials, 2021, 5, .	0.9	16
42	Control of Oxygen Vacancy Ordering in Brownmillerite Thin Films via Ionic Liquid Gating. ACS Nano, 2022, , .	7.3	14
43	Hybrid YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> Superconducting/Ferromagnetic Nanocomposite Thin Films Prepared from Colloidal Chemical Solutions. Advanced Electronic Materials, 2017, 3, 1700037.	2.6	13
44	Superexchange pathways stabilize the magnetic coupling of MnPc with Co in a spin interface mediated by graphene. Physical Review B, 2018, 98, .	1.1	13
45	Electronic structure and magnetic exchange interactions of Cr-based van der Waals ferromagnets. A comparative study between CrBr <sub>3</sub> and Cr <sub>2</sub> Ge <sub>2</sub> Te <sub>6</sub> . Journal of Materials Chemistry C, 2020, 8, 13582-13589.	2.7	13
46	Large Perpendicular Magnetic Anisotropy in Nanometer-Thick Epitaxial Graphene/Co/Heavy Metal Heterostructures for Spin-Orbitronics Devices. ACS Applied Nano Materials, 2021, 4, 4398-4408.	2.4	13
47	Stability of the Cationic Oxidation States in Pr <sub>0.50</sub> Sr <sub>0.50</sub> CoO <sub>3</sub> across the Magnetostructural Transition by X-ray Absorption Spectroscopy. Inorganic Chemistry, 2014, 53, 8854-8858.	1.9	12
48	Superparamagnetism-induced mesoscopic electron focusing in topological insulators. Physical Review B, 2016, 94, .	1.1	12
49	Influence of 4f filling on electronic and magnetic properties of rare earth-Au surface compounds. Nanoscale, 2020, 12, 22258-22267.	2.8	11
50	Reversible spin storage in metal oxide/fullerene heterojunctions. Science Advances, 2020, 6, eaax1085.	4.7	10
51	Orbital Hybridization and Magnetic Coupling at Cuprate/Manganite Interfaces Driven by Manganite Doping. Advanced Quantum Technologies, 2020, 3, 2000016.	1.8	9
52	Molecular Approach for Engineering Interfacial Interactions in Magnetic/Topological Insulator Heterostructures. ACS Nano, 2020, 14, 6285-6294.	7.3	9
53	Slow Magnetic Relaxation of Dy Adatoms with In-Plane Magnetic Anisotropy on a Two-Dimensional Electron Gas. ACS Nano, 2022, 16, 11182-11193.	7.3	9
54	Graphene-mediated interaction between FePc and intercalated cobalt layers. Applied Surface Science, 2018, 432, 2-6.	3.1	8

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55	Metal phthalocyanines interaction with Co mediated by a moiré graphene superlattice. Journal of Chemical Physics, 2019, 150, 054704.	1.2	8
56	Non-local effect of impurity states on the exchange coupling mechanism in magnetic topological insulators. Npj Quantum Materials, 2020, 5, .	1.8	8
57	Tuning the Magnetic Coupling of a Molecular Spin Interface via Electron Doping. Nano Letters, 2021, 21, 666-672.	4.5	8
58	Tuning the Magnetic Anisotropy of Lanthanides on a Metal Substrate by Metal-Organic Coordination. Small, 2021, 17, e2102753.	5.2	8
59	Engineering Periodic Dinuclear Lanthanide-Directed Networks Featuring Tunable Energy Level Alignment and Magnetic Anisotropy by Metal Exchange. Small, 2022, 18, e2107073.	5.2	8
60	Orbital occupancy and hybridization in strained $\text{SrVO}_3$ epitaxial films. Physical Review Materials, 2021, 5, .	0.9	7
61	Mapping Orbital-Resolved Magnetism in Single Lanthanide Atoms. ACS Nano, 2021, 15, 16162-16171.	7.3	7
62	Potassium-doped FePc thin-film on metal surfaces: observation of different empty state occupation. Journal of Nanoparticle Research, 2011, 13, 5967-5973.	0.8	6
63	Orbital Symmetry of the Kondo State in Adsorbed FePc Molecules on the Au(110) Metal Surface. Journal of Physical Chemistry C, 2016, 120, 28527-28532.	1.5	6
64	Spin-lattice coupling across the singular magnetostructural transition in $\text{PbSr}_2\text{P}_2\text{O}_{14}$ epitaxial films. Physical Review Materials, 2021, 5, .	1.1	5
65	Strong ferromagnetic coupling and tunable easy magnetization directions of $\text{Fe}_x\text{Co}_{1-x}$ layer(s) intercalated under graphene. Applied Surface Science, 2020, 527, 146599.	3.1	5
66	Orbital dependent Rashba splitting and electron-phonon coupling of 2D Bi phase on Cu(100) surface. Journal of Chemical Physics, 2013, 139, 184707.	1.2	4
67	Mixing of MnPc electronic states at the MnPc/Au(110) interface. Journal of Chemical Physics, 2017, 147, 134702.	1.2	4
68	Magnetic response and electronic states of well defined Graphene/Fe/Ir(111) heterostructure. Physical Review Materials, 2021, 5, .	0.9	4
69	Effect of the valence state on the band magnetocrystalline anisotropy in two-dimensional rare-earth/noble-metal compounds. Physical Review Research, 2022, 4, .	1.3	4
70	Chiral asymmetry detected in a 2D array of permalloy square nanomagnets using circularly polarized x-ray resonant magnetic scattering. Nanotechnology, 2020, 31, 025702.	1.3	3
71	Growth-sequence-dependent interface magnetism of $\text{SrIrO}_3/\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ bilayers. AIP Advances, 2020, 10, 035132.	0.6	3
72	In operando adjustable orbital polarization in $\text{LaNiO}_3$ thin films. Physical Review Materials, 2020, 4, .	0.9	3

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73	Bi ordered phases on Cu(100): Periodic arrays of dislocations influence the electronic properties. Journal of Chemical Physics, 2010, 132, 174706.	1.2	2
74	Magnetism at the interface of non-magnetic Cu and C <sub>60</sub> . Physical Chemistry Chemical Physics, 2021, 23, 6490-6495.	1.3	2
75	Publisher's Note: Spin-lattice coupling across the singular magnetostructural transition in $\text{PrMnO}_5$ probed by x-ray magnetic circular dichroism [Phys. Rev. B 92, 245136 (2015)]. Physical Review B, 2016, 93, .	1.1	1
76	Enantiopure Supramolecular Motifs of Self-Assembled Diamine-Based Chiral Molecules on Cu(100). Journal of Physical Chemistry C, 2018, 122, 24129-24136.	1.5	1
77	Coherent charge and magnetic ordering in Ho/Y superlattice revealed by element-selective x-ray scattering. Physical Review B, 2019, 100, .	1.1	1
78	Layer-dependence of macroscopic and atomic magnetic correlations in Co/Pd multilayers. AIP Advances, 2020, 10, 065321.	0.6	1
79	Attosecond Soft X-Ray Beamline for Dispersive Absorption Spectroscopy of Solid-State Systems. , 2019, , .		0
80	High thermal stability of anti-ferromagnetic coupled molecules with FeCo layers. AIP Advances, 2021, 11, 075302.	0.6	0
81	Tuning the magnetic coupling of spin molecular interfaces with high thermal stability (Conference) Tj ETQq1 1 0.784314 rgBT <sub>0</sub> /Overlo		