

Pierluigi Gargiani

List of Publications by Year in descending order

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81
papers

1,918
citations

218381

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276539

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84
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docs citations

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times ranked

3041
citing authors

#	ARTICLE	IF	CITATIONS
1	Van der Waals epitaxy growth of 2D ferromagnetic Cr(1+ $\hat{1}$)Te ₂ nanolayers with concentration-tunable magnetic anisotropy. Applied Physics Reviews, 2022, 9, .	5.5	19
2	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
3	Engineering Periodic Dinuclear Lanthanide-Directed Networks Featuring Tunable Energy Level Alignment and Magnetic Anisotropy by Metal Exchange. Small, 2022, 18, e2107073.	5.2	8
4	Control of Oxygen Vacancy Ordering in Brownmillerite Thin Films via Ionic Liquid Gating. ACS Nano, 2022, , .	7.3	14
5	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
6	Tuning the Magnetic Coupling of a Molecular Spin Interface via Electron Doping. Nano Letters, 2021, 21, 666-672.	4.5	8
7	Magnetism at the interface of non-magnetic Cu and C ₆₀ . Physical Chemistry Chemical Physics, 2021, 23, 6490-6495.	1.3	2
8	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
9	Tuning the Magnetic Anisotropy of Lanthanides on a Metal Substrate by Metal-Organic Coordination. Small, 2021, 17, e2102753.	5.2	8
10	High thermal stability of anti-ferromagnetic coupled molecules with FeCo layers. AIP Advances, 2021, 11, 075302.	0.6	0
11	Voltage control of ferrimagnetic order and voltage-assisted writing of ferrimagnetic spin textures. Nature Nanotechnology, 2021, 16, 981-988.	15.6	45
12	Imaging the spin chirality of ferrimagnetic Néel skyrmions stabilized on topological antiferromagnetic Mn_3Sn . Physical Review Materials, 2021, 5, .	0.9	16
13	Orbital occupancy and hybridization in strained SrVO_3 epitaxial films. Physical Review Materials, 2021, 5, .	0.9	7
14	Robust Single Molecule Magnet Monolayers on Graphene and Graphite with Magnetic Hysteresis up to 28ÅK. Advanced Functional Materials, 2021, 31, 2105516.	7.8	28
15	Mapping Orbital-Resolved Magnetism in Single Lanthanide Atoms. ACS Nano, 2021, 15, 16162-16171.	7.3	7
16	Noncollinear Magnetic Order in Two-Dimensional NiBr ₂ Films Grown on Au(111). ACS Nano, 2021, 15, 14985-14995.	7.3	20
17	Magnetic response and electronic states of well defined Graphene/Fe/Ir(111) heterostructure. Physical Review Materials, 2021, 5, .	0.9	4
18	Intrinsic 2D-XY ferromagnetism in a van der Waals monolayer. Science, 2021, 374, 616-620.	6.0	116

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19	Chiral asymmetry detected in a 2D array of permalloy square nanomagnets using circularly polarized x-ray resonant magnetic scattering. <i>Nanotechnology</i> , 2020, 31, 025702.	1.3	3
20	Strong ferromagnetic coupling and tunable easy magnetization directions of FexCo_{1-x} layer(s) intercalated under graphene. <i>Applied Surface Science</i> , 2020, 527, 146599.	3.1	5
21	Competing magnetic states in silicene and germanene 2D ferromagnets. <i>Nano Research</i> , 2020, 13, 3396-3402.	5.8	19
22	Non-local effect of impurity states on the exchange coupling mechanism in magnetic topological insulators. <i>Npj Quantum Materials</i> , 2020, 5, . Absence of Magnetic Proximity Effect at the Interface of	1.8	8
23	and		

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37	Metal phthalocyanines interaction with Co mediated by a moiré graphene superlattice. Journal of Chemical Physics, 2019, 150, 054704.	1.2	8
38	Tuning the magnetic coupling of spin molecular interfaces with high thermal stability (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50		
39	Systematics of electronic and magnetic properties in the transition metal doped $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Sb} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 12 \langle \text{mml:m} \rangle \langle \text{mml:mi} \rangle$ quantum anomalous Hall platform. Physical Review B, 2018, 97, .		
40	Ferromagnetic and Antiferromagnetic Coupling of Spin Molecular Interfaces with High Thermal Stability. Nano Letters, 2018, 18, 2268-2273.	4.5	35
41	Magnetoresistance in Hybrid Pt/CoFe ₂ O ₄ Bilayers Controlled by Competing Spin Accumulation and Interfacial Chemical Reconstruction. ACS Applied Materials & Interfaces, 2018, 10, 12031-12041.	4.0	28
42	Graphene-mediated interaction between FePc and intercalated cobalt layers. Applied Surface Science, 2018, 432, 2-6.	3.1	8
43	Interface-Assisted Sign Inversion of Magnetoresistance in Spin Valves Based on Novel Lanthanide Quinoline Molecules. Advanced Functional Materials, 2018, 28, 1702099.	7.8	35
44	Probing magnetic coupling between LnPc ₂ (Ln = Tb, Er) molecules and the graphene/Ni (111) substrate with and without Au-intercalation: role of the dipolar field. Nanoscale, 2018, 10, 277-283.	2.8	25
45	Towards microscopic control of the magnetic exchange coupling at the surface of a topological insulator. JPhys Materials, 2018, 1, 015002.	1.8	18
46	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
47	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
48	Imaging Nanometer Phase Coexistence at Defects During the Insulator-Metal Phase Transformation in VO ₂ Thin Films by Resonant Soft X-ray Holography. Nano Letters, 2018, 18, 3449-3453.	4.5	24
49	Unraveling Dzyaloshinskii-Moriya Interaction and Chiral Nature of Graphene/Cobalt Interface. Nano Letters, 2018, 18, 5364-5372.	4.5	60
50	Emergent magnetism at transition-metal-nanocarbon interfaces. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5583-5588.	3.3	20
51	Hybrid YBa ₂ Cu ₃ O ₇ Superconducting-Ferromagnetic Nanocomposite Thin Films Prepared from Colloidal Chemical Solutions. Advanced Electronic Materials, 2017, 3, 1700037.	2.6	13
52	FePc Adsorption on the Moiré Superstructure of Graphene Intercalated with a Cobalt Layer. Journal of Physical Chemistry C, 2017, 121, 1639-1647.	1.5	25
53	Graphene-based synthetic antiferromagnets and ferrimagnets. Nature Communications, 2017, 8, 699.	5.8	39
54	Mixing of MnPc electronic states at the MnPc/Au(110) interface. Journal of Chemical Physics, 2017, 147, 134702.	1.2	4

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55	Direct observation of multivalent states and charge transfer in Ce-doped yttrium iron garnet thin films. <i>Physical Review B</i> , 2017, 96, .		
56	Polymerization of Well-Aligned Organic Nanowires on a Ferromagnetic Rare-Earth Surface Alloy. <i>ACS Nano</i> , 2017, 11, 12392-12401.	7.3	20
57	Orbital Symmetry of the Kondo State in Adsorbed FePc Molecules on the Au(110) Metal Surface. <i>Journal of Physical Chemistry C</i> , 2016, 120, 28527-28532.	1.5	6
58	Emerging Diluted Ferromagnetism in High-T _c Superconductors Driven by Point Defect Clusters. <i>Advanced Science</i> , 2016, 3, 1500295.	5.6	41
59	Superparamagnetism-induced mesoscopic electron focusing in topological insulators. <i>Physical Review B</i> , 2016, 94, .	1.1	12
60	Absence of magnetic proximity effects in magnetoresistive Pt/CoF ₂ /Pt hybrid interfaces. <i>Physical Review B</i> , 2016, 93, .	1.1	35
61	Publisher's Note: Spin-lattice coupling across the singular magnetostructural transition in x-ray magnetic circular dichroism [Phys. Rev. B 92, 245136 (2015)]. <i>Physical Review B</i> , 2016, 93, .	1.1	1
62	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
63	High Temperature Ferromagnetism in a GdAg ₂ Monolayer. <i>Nano Letters</i> , 2016, 16, 4230-4235.	4.5	40
64	Magnetic stability against calcining of microwave-synthesized CoFe ₂ O ₄ nanoparticles. <i>New Journal of Chemistry</i> , 2016, 40, 6890-6898.	1.4	16
65	Spin-lattice coupling across the singular magnetostructural transition in P _r 0.5S _r 0.5Co ₃ films: An x-ray magnetic circular dichroism study. <i>Physical Review B</i> , 2015, 91, .	1.1	5
66	Electronic and spin states of Pr _{0.5} Sr _{0.5} Co ₃ films: An x-ray magnetic circular dichroism study. <i>Physical Review B</i> , 2015, 91, .	1.1	5
67	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
68	Metal-phthalocyanine ordered layers on Au(110): Metal-dependent adsorption energy. <i>Journal of Chemical Physics</i> , 2014, 140, 244704.	1.2	43
69	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
70	Stability of the Cationic Oxidation States in Pr _{0.5} Sr _{0.5} Co ₃ across the Magnetostructural Transition by X-ray Absorption Spectroscopy. <i>Inorganic Chemistry</i> , 2014, 53, 8854-8858.	1.9	12
71	Spin and orbital configuration of metal phthalocyanine chains assembled on the Au(110) surface. <i>Physical Review B</i> , 2013, 87, .	1.1	67
72	Orbital dependent Rashba splitting and electron-phonon coupling of 2D Bi phase on Cu(100) surface. <i>Journal of Chemical Physics</i> , 2013, 139, 184707.	1.2	4

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73	Molecule-Driven Substrate Reconstruction in the Two-Dimensional Self-Organization of Fe-Phthalocyanines on Au(110). Journal of Physical Chemistry C, 2012, 116, 6251-6258.	1.5	38
74	Formation of Hybrid Electronic States in FePc Chains Mediated by the Au(110) Surface. Journal of Physical Chemistry C, 2012, 116, 8657-8663.	1.5	20
75	Structural Phases of Ordered FePc-Nanochains Self-Assembled on Au(110). Langmuir, 2012, 28, 13232-13240.	1.6	26
76	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
77	Coexistence of Negatively and Positively Buckled Isomers on n-Doped Si(111) $\sim 2 \text{ \AA}^{-1}$. Physical Review Letters, 2011, 106, 067601.	2.9	27
78	Metal-phthalocyanine chains on the Au(110) surface: Interaction states versus d -metal states occupancy. Physical Review B, 2010, 81, .	1.1	90
79	Localized and Dispersive Electronic States at Ordered FePc and CoPc Chains on Au(110). Journal of Physical Chemistry C, 2010, 114, 21638-21644.	1.5	91
80	Bi ordered phases on Cu(100): Periodic arrays of dislocations influence the electronic properties. Journal of Chemical Physics, 2010, 132, 174706.	1.2	2
81	Control of Electron Injection Barrier by Electron Doping of Metal Phthalocyanines. Journal of Physical Chemistry C, 2010, 114, 12258-12264.	1.5	27