

Manuel Valvidares

List of Publications by Year in descending order

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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, .	11.3	19
2	Disclosing the Nature of Asymmetric Interface Magnetism in Co/Pt Multilayers. ACS Applied Materials & Interfaces, 2022, 14, 12766-12776.	8.0	8
3	Engineering Periodic Dinuclear Lanthanide-Directed Networks Featuring Tunable Energy Level Alignment and Magnetic Anisotropy by Metal Exchange. Small, 2022, 18, e2107073.	10.0	8
4	Control of Oxygen Vacancy Ordering in Brownmillerite Thin Films via Ionic Liquid Gating. ACS Nano, 2022, , .	14.6	14
5	Magnetism at the interface of non-magnetic Cu and C ₆₀ . Physical Chemistry Chemical Physics, 2021, 23, 6490-6495.	2.8	2
6	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.	5.0	13
7	X-ray magnetic linear dichroism study of field-manipulated canted antiferromagnetism in epitaxial films. Physical Review Materials, 2021, 5, .	3.2	0
8	Magnetic ordering in La _{1.5} Co ₄ O ₁₀ revealed by resonant magnetic x-ray scattering and neutron diffraction. Physical Review B, 2021, 103, .	3.2	0
9	Large intrinsic anomalous Hall effect in SrIrO ₃ induced by magnetic proximity effect. Nature Communications, 2021, 12, 3283.	12.8	34
10	Tuning the Magnetic Anisotropy of Lanthanides on a Metal Substrate by Metal-Organic Coordination. Small, 2021, 17, e2102753.	10.0	8
11	Evidence for largest room temperature magnetic signal from Co ²⁺ in antiphase-free & fully inverted CoFe ₂ O ₄ in multiferroic-ferrimagnetic BiFeO ₃ -CoFe ₂ O ₄ nanopillar thin films. Journal of Magnetism and Magnetic Materials, 2021, 530, 167940.	2.3	4
12	Voltage control of ferrimagnetic order and voltage-assisted writing of ferrimagnetic spin textures. Nature Nanotechnology, 2021, 16, 981-988.	31.5	45
13	Large-area van der Waals epitaxy and magnetic characterization of Fe ₃ GeTe ₂ films on graphene. 2D Materials, 2021, 8, 041001.	4.4	13
14	Imaging the spin chirality of ferrimagnetic Néel skyrmions stabilized on topological antiferromagnetic Mn ₃ Sn. Physical Review Materials, 2021, 5, .	2.4	16
15	Orbital occupancy and hybridization in strained SrV ₃ epitaxial films. Physical Review Materials, 2021, 5, .	2.4	7
16	Robust Single Molecule Magnet Monolayers on Graphene and Graphite with Magnetic Hysteresis up to 28ÅK. Advanced Functional Materials, 2021, 31, 2105516.	14.9	28
17	Intrinsic 2D-XY ferromagnetism in a van der Waals monolayer. Science, 2021, 374, 616-620.	12.6	116
18	Chiral asymmetry detected in a 2D array of permalloy square nanomagnets using circularly polarized x-ray resonant magnetic scattering. Nanotechnology, 2020, 31, 025702.	2.6	3

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19	A New Highly Anisotropic Rh-Based Heusler Compound for Magnetic Recording. <i>Advanced Materials</i> , 2020, 32, 2004331.	21.0	18
20	Quadruple perovskite oxide LaCu ₃ Co ₂ Re ₂ O ₁₂ : A ferrimagnetic half metal with nearly 100% B-site degree of order. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	14
21	Strong ferromagnetic coupling and tunable easy magnetization directions of Fe _x Co _{1-x} layer(s) intercalated under graphene. <i>Applied Surface Science</i> , 2020, 527, 146599.	6.1	5
22	Competing magnetic states in silicene and germanene 2D ferromagnets. <i>Nano Research</i> , 2020, 13, 3396-3402.	10.4	19
23	Non-local effect of impurity states on the exchange coupling mechanism in magnetic topological insulators. <i>Npj Quantum Materials</i> , 2020, 5, . Enhanced magnetization of the highest- T_C ferrimagnetic oxide	5.2	8
24	$\text{Sr}_2\text{Fe}_6\text{O}_{13}$	3.2	13
25	Bi_2O_3 and		

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37	Strontium hexaferrite platelets: a comprehensive soft X-ray absorption and Mössbauer spectroscopy study. Scientific Reports, 2019, 9, 11777.	3.3	35
38	Surface states and Rashba-type spin polarization in antiferromagnetic MnBi (001). Physical Review B, 2019, 100, .	3.2	13
39	Element-specific soft x-ray spectroscopy, scattering, and imaging studies of the skyrmion-hosting compound Co Valence State and Spin-State transition of Co in LaC_5O_7	3.2	29
40	Topological Electronic Structure and Intrinsic Magnetization in MnBi	3.2	7
41	Low-field switching of noncollinear spin texture at MnBi	3.2	16
42	Systematics of electronic and magnetic properties in the transition metal doped Sb quantum anomalous Hall platform. Physical Review B, 2018, 97, .	3.2	18
43	Magnetoconductance in Hybrid $\text{Pt}/\text{CoFe}_2\text{O}_4$ Bilayers Controlled by Competing Spin Accumulation and Interfacial Chemical Reconstruction. ACS Applied Materials & Interfaces, 2018, 10, 12031-12041.	2.4	16
44	Interface-Assisted Sign Inversion of Magnetoconductance in Spin Valves Based on Novel Lanthanide Quinoline Molecules. Advanced Functional Materials, 2018, 28, 1702099.	3.2	11
45	Towards microscopic control of the magnetic exchange coupling at the surface of a topological insulator. JPhys Materials, 2018, 1, 015002.	8.0	28
46	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.	9.1	24
47	Unraveling Dzyaloshinskii-Moriya Interaction and Chiral Nature of Graphene/Cobalt Interface. Nano Letters, 2018, 18, 5364-5372.	9.1	60
48	Emergent magnetism at transition-metal-nanocarbon interfaces. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5583-5588.	7.1	20
49	Hybrid $\text{YBa}_2\text{Cu}_3\text{O}_7$ Superconducting-Ferromagnetic Nanocomposite Thin Films Prepared from Colloidal Chemical Solutions. Advanced Electronic Materials, 2017, 3, 1700037.	5.1	13
50	Graphene-based synthetic antiferromagnets and ferrimagnets. Nature Communications, 2017, 8, 699.	12.8	39
51	Electronically highly cubic conditions for Ru in RuCl_3	3.2	36
52	Perpendicular magnetic anisotropy in amorphous Nd thin films studied by x-ray magnetic circular dichroism. Physical Review B, 2017, 95, .	3.2	18

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55	Direct observation of multivalent states and charge transfer in Ce-doped yttrium iron garnet thin films. Physical Review B, 2017, 96, .	3.2	11
56	Whole-nanoparticle atomistic modeling of the schwertmannite structure from total scattering data. Journal of Applied Crystallography, 2017, 50, 1617-1626.	4.5	11
57	Emerging Diluted Ferromagnetism in High-T Superconductors Driven by Point Defect Clusters. Advanced Science, 2016, 3, 1500295.	11.2	41
58	Superparamagnetism-induced mesoscopic electron focusing in topological insulators. Physical Review B, 2016, 94, .	3.2	12
59	High-Pressure Synthesis and Ferrimagnetic Ordering of the B-Site-Ordered Cubic Perovskite Pb_2FeO_6 . Inorganic Chemistry, 2016, 55, 9816-9821.	4.0	17
60	Absence of magnetic proximity effects in magnetoresistive Pt/CoF_2 hybrid interfaces. Physical Review B, 2016, 93, .	3.2	35
61	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
62	Magnetic stability against calcining of microwave-synthesized CoFe_2O_4 nanoparticles. New Journal of Chemistry, 2016, 40, 6890-6898.	2.8	16
63	Spin-orbit coupling across the singular magnetostructural transition in $\text{Pt}/\text{Co}/\text{Pt}$ multilayers. Physical Review B, 2015, 92, .	3.2	5
64	Tuning interfacial domain walls in $\text{GdCo}/\text{Gd}/\text{GdCo}$ spring magnets. Physical Review B, 2015, 92, .	3.2	15
65	Electronic and spin states of SrRuO_3 thin films: An x-ray magnetic circular dichroism study. Physical Review B, 2015, 91, .	3.2	15
66	Two-Dimensional Electron Gases at $\text{LaAlO}_3/\text{SrTiO}_3$ Interfaces: Orbital Symmetry and Hierarchy Engineered by Crystal Orientation. Physical Review Letters, 2014, 113, 156802.	7.8	38
67	Structure and Absence of Ferroelectricity in SmFeO_3 . Physical Review Letters, 2014, 113, 156802.	7.8	105
68	Stability of the Cationic Oxidation States in $\text{Pr}_{0.50}\text{Sr}_{0.50}\text{CoO}_3$ across the Magnetostructural Transition by X-ray Absorption Spectroscopy. Inorganic Chemistry, 2014, 53, 8854-8858.	4.0	12
69	Fieldlike and antidamping spin-orbit torques in as-grown and annealed Ta/CoFeB/MgO layers. Physical Review B, 2014, 89, .	3.2	164
70	Direct observation of rotatable uncompensated spins in the exchange bias system $\text{Co}/\text{CoO}/\text{MgO}$. Nanoscale, 2013, 5, 10236.	5.6	26
71	Integrating UHV (Ultra High Vacuum) and HTS (High Temperature Superconducting) magnets for x-ray synchrotron based experiments. Journal of Physics: Conference Series, 2013, 425, 102003.	0.4	6
72	Kramers-Kronig constrained modeling of soft x-ray reflectivity spectra: Obtaining depth resolution of electronic and chemical structure. Physical Review B, 2012, 86, .	3.2	19

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73	Molecular orientation in soft matter thin films studied by resonant soft x-ray reflectivity. Physical Review B, 2011, 83, .	3.2	42
74	NativeSrTiO3(001) surface layer from resonant TiL2,3reflectance spectroscopy. Physical Review B, 2010, 82, .	3.2	19
75	Interface-driven manipulation of the magnetic anisotropy of ultrathin Co films on Pt(111): Substrate deposition of hydrogen and model calculations. Physical Review B, 2010, 81, .	3.2	14
76	Microscopic origin of perpendicular magnetic anisotropy in amorphous Nd-Co homogeneous and compositionally modulated, thin films studied by XMCD. Journal of Physics: Conference Series, 2010, 200, 072017.	0.4	4
77	Probing the evolution of antiferromagnetism in multiferroics. Physical Review B, 2010, 81, .	3.2	70
78	Delocalization and hybridization enhance the magnetocaloric effect in Cu-doped $Ni_{2Mn}Ni$. Physical Review B, 2009, 79, .	3.2	66
79	Resolving antiferromagnetic states in magnetically coupled amorphous Co-Si-Si multilayers by soft x-ray resonant magnetic scattering. Physical Review B, 2008, 78, .	3.2	12
80	Competing magnetic anisotropies in exchange coupled bilayers with growth-induced orthogonal uniaxial axes. Physical Review B, 2007, 76, .	3.2	6
81	Uniaxial magnetic anisotropy of Fe-Si and Co-Si amorphous thin films due to Si nano-segregation. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 1409-1414.	1.8	1
82	Low-temperature growth favours hcp structure, flatness and perpendicular magnetic anisotropy of thin (1-5 nm) Co films on Pt(111). Journal of Physics Condensed Matter, 2005, 17, 5551-5561.	1.8	8
83	Phase separation in Fe [~] Si and Co [~] Si sputtered ferromagnetic alloys and the origin of their magnetic anisotropy. Physical Review B, 2005, 72, .	3.2	16
84	Structural and magnetic properties of bcc Co films on Pt(001) studied by magnetic resonant surface x-ray diffraction, STM, and magneto-optical Kerr effect. Physical Review B, 2004, 70, .	3.2	22
85	Amorphous to polycrystalline transition in Co _x Si _{1-x} alloy thin films. European Physical Journal B, 2004, 41, 517-524.	1.5	25
86	Structure and Pt magnetism of FePt nanoparticles investigated with X-ray diffraction. Journal of Magnetism and Magnetic Materials, 2003, 264, 202-208.	2.3	15
87	Structure and magnetic properties of amorphous Co-Si alloy films. IEEE Transactions on Magnetics, 2002, 38, 3078-3080.	2.1	13
88	Understanding the magnetic anisotropy in Fe-Si amorphous alloys. IEEE Transactions on Magnetics, 2002, 38, 2811-2813.	2.1	17
89	Study of the magnetic anisotropy of amorphous Fe _{1-x} Si _x deposited by magnetron sputtering. Journal of Magnetism and Magnetic Materials, 2002, 242-245, 166-168.	2.3	11
90	Inverted hysteresis loops in annealed Co-Nb-Zr and Co-Fe-Mo-Si-B amorphous thin films. Journal of Magnetism and Magnetic Materials, 2002, 242-245, 169-172.	2.3	11

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91	Inverted hysteresis loops in magnetically coupled bilayers with uniaxial competing anisotropies: Theory and experiments. Physical Review B, 2001, 64, .	3.2	51
92	Understanding the origin of the magnetic anisotropy in iron silicide amorphous alloys. , 0, , .		0