

# Giovanni Vinai

## List of Publications by Year in descending order

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52  
papers

817  
citations

567281

15  
h-index

526287

27  
g-index

53  
all docs

53  
docs citations

53  
times ranked

1562  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence of Spin Frustration in a Vanadium Diselenide Monolayer Magnet. <i>Advanced Materials</i> , 2019, 31, e1901185.	21.0	129
2	Ferroelectric Control of the Spin Texture in GeTe. <i>Nano Letters</i> , 2018, 18, 2751-2758.	9.1	114
3	Magnetic Transition in Monolayer $VSe_2$ via Interface Hybridization. <i>ACS Nano</i> , 2019, 13, 8997-9004.	14.6	94
4	Molecular Beam Epitaxy of Two-Dimensional Vanadium-Molybdenum Diselenide Alloys. <i>ACS Nano</i> , 2020, 14, 11140-11149.	14.6	28
5	Quantifying the critical thickness of electron hybridization in spintronics materials. <i>Nature Communications</i> , 2017, 8, 16051.	12.8	26
6	Strain-induced magnetization control in an oxide multiferroic heterostructure. <i>Physical Review B</i> , 2018, 97, .	3.2	26
7	Proximity-induced ferromagnetism and chemical reactivity in few-layer $VSe_2$ heterostructures. <i>Physical Review B</i> , 2020, 101, .	3.2	25
8	Large Exchange Bias Field in (Pt/Co)/IrMn/Co Trilayers With Ultrathin IrMn Layers. <i>IEEE Magnetics Letters</i> , 2012, 3, 4000204-4000204.	1.1	17
9	Magnetic gas sensing exploiting the magneto-optical Kerr effect on ZnO nanorods/Co layer system. <i>RSC Advances</i> , 2016, 6, 42517-42521.	3.6	17
10	Enhanced Magnetic Hybridization of a Spinterface through Insertion of a Two-Dimensional Magnetic Oxide Layer. <i>Nano Letters</i> , 2017, 17, 7440-7446.	9.1	17
11	An integrated ultra-high vacuum apparatus for growth and <i>in situ</i> characterization of complex materials. <i>Review of Scientific Instruments</i> , 2020, 91, 085109.	1.3	17
12	Large exchange bias enhancement in (Pt(or Pd)/Co)/IrMn/Co trilayers with ultrathin IrMn thanks to interfacial Cu dusting. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	16
13	Spectroscopic identification of the chemical interplay between defects and dopants in Al-doped ZnO. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 29364-29371.	2.8	16
14	Room temperature biaxial magnetic anisotropy in $La_{0.67}Sr_{0.33}MnO_3$ thin films on $SrTiO_3$ buffered MgO (001) substrates for spintronic applications. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	16
15	Two-bit-per-dot patterned media combining in-plane and perpendicular-to-plane magnetized thin films. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	15
16	Unraveling the magnetic properties of $BiFe_{0.5}Cr_{0.5}O_3$ thin films. <i>APL Materials</i> , 2015, 3, 116107.	5.1	15
17	Reversible Modification of Ferromagnetism through Electrically Controlled Morphology. <i>Advanced Electronic Materials</i> , 2019, 5, 1900150.	5.1	15
18	New strategy for magnetic gas sensing. <i>RSC Advances</i> , 2016, 6, 83399-83405.	3.6	13

#	ARTICLE	IF	CITATIONS
19	Defect Engineering for Tuning the Photoresponse of Ceria-Based Solid Oxide Photoelectrochemical Cells. ACS Applied Materials & Interfaces, 2021, 13, 541-551.	8.0	13
20	Planar triangular $S=3$ magnet $AgCrSe_2$ : Magnetic frustration, short range correlations, and field-tuned anisotropic cycloidal magnetic order. Physical Review B, 2021, 104.	3.2	13
21	Evidence of magnetism-induced topological protection in the axion insulator candidate $EuSn_2P_2$ . Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	12
22	Giant magneto-electric coupling in 100 nm thick Co capped by ZnO nanorods. Nanoscale, 2018, 10, 1326-1336.	5.6	11
23	Stabilization of an Enantiopure Submonolayer of Helicene Radical Cations on a Au(111) Surface through Noncovalent Interactions. Angewandte Chemie - International Edition, 2021, 60, 15276-15280.	13.8	11
24	Magnetoelectric Coupling at the $Ni_{0.5}Zr_{0.5}O_2$ Interface. ACS Nano, 2021, 15, 14891-14902.	14.6	11
25	Magnetic anisotropy at the buried CoO/Fe interface. Applied Physics Letters, 2016, 109, .	3.3	9
26	Insights into the electronic structure of OsO <sub>2</sub> using soft and hard x-ray photoelectron spectroscopy in combination with density functional theory. Physical Review Materials, 2019, 3, .	2.4	9
27	Metal to insulator transition at the surface of V <sub>2</sub> O <sub>3</sub> thin films: An in-situ view. Applied Surface Science, 2022, 574, 151608.	6.1	9
28	Strong-coupling charge density wave in monolayer TiSe <sub>2</sub> . 2D Materials, 2021, 8, 015004.	4.4	9
29	Interdiffusion-driven synthesis of tetragonal chromium (III) oxide on $BaTiO_3$ . Physical Review Materials, 2018, 2, .	2.4	8
30	Enhanced blocking temperature in $(Pt/Co)_3/IrMn/Co$ and $(Pd/Co)_3/IrMn/Co$ trilayers with ultrathin IrMn layer. Journal Physics D: Applied Physics, 2013, 46, 322001.	2.8	7
31	Tuning the magnetic properties of $(V_2O_7)_n$ heterostructures across the $CoFeB/n$ .	2.4	7
32	ZnO Thin Films Growth Optimization for Piezoelectric Application. Sensors, 2021, 21, 6114.	3.8	7
33	Interplay between morphology and magnetoelectric coupling in Fe/PMN-PT multiferroic heterostructures studied by microscopy techniques. Physical Review Materials, 2020, 4, .	2.4	7
34	Electronic Properties of Fully Strained $LaSrMnO_3$ Thin Films Grown by Molecular Beam Epitaxy (0.15 at% $\epsilon$ to 0.45). ACS Omega, 2022, 7, 14571-14578.	3.5	6
35	Improved Structural Properties in Homogeneously Doped $Sm_{0.4}Ce_{0.6}O_{2-\delta}$ Epitaxial Thin Films: High Doping Effect on the Electronic Bands. ACS Applied Materials & Interfaces, 2020, 12, 47556-47563.	8.0	5
36	Evidence of Robust Half-Metallicity in Strained Manganite Films. Journal of Physical Chemistry C, 2021, 125, 14430-14437.	3.1	5

#	ARTICLE	IF	CITATIONS
37	Integration of epitaxial La <sub>2</sub> /3Sr <sub>1</sub> /3MnO <sub>3</sub> thin films on silicon-on-sapphire substrate for MEMS applications. Applied Surface Science, 2022, 579, 152095.	6.1	5
38	Influence of Mn diffusion on IrMn thickness threshold for the onset of exchange bias in IrMn/Co bilayers. Journal of Physics: Conference Series, 2017, 903, 012061.	0.4	4
39	Study of equilibrium carrier transfer in LaAlO <sub>3</sub> /SrTiO <sub>3</sub> from an epitaxial La <sub>1-x</sub> Sr <sub>x</sub> MnO <sub>3</sub> ferromagnetic layer. Journal of Physics Communications, 2018, 2, 025010.	1.2	4
40	Bonding Character and Magnetism at the Interface Between Fe and MoS <sub>2</sub> Nanosheets. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800015.	1.8	4
41	Thermal assisted tailoring of magnetic coercivity in Iron thin films on unstable Lithium Niobate substrate. Journal of Magnetism and Magnetic Materials, 2020, 515, 167257.	2.3	4
42	Original design of a patterned multiferroic heterostructure for electrical control of the magnetic shape anisotropy. Journal of Magnetism and Magnetic Materials, 2020, 507, 166816.	2.3	4
43	Two-Bit-Per-Dot Patterned Media for Magnetic Storage. IEEE Magnetics Letters, 2011, 2, 4500104-4500104.	1.1	3
44	Magnetic properties of patterned arrays of exchange-biased IrMn/Co square dots. Journal Physics D: Applied Physics, 2013, 46, 345308.	2.8	3
45	IrMn microstructural effects on exchange bias variability in patterned arrays of IrMn/Co square dots. Journal Physics D: Applied Physics, 2014, 47, 195302.	2.8	3
46	Magnetic properties of the CoO/Fe(001) system with a bottom-up engineered interface. Journal of Magnetism and Magnetic Materials, 2019, 475, 54-59.	2.3	3
47	Identification of hidden orbital contributions in the $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ valence band. Physical Review Materials, 2021, 5, .	2.4	2
48	Magnetoresistance of galferol-based magnetic tunnel junction. AIP Advances, 2015, 5, 127128.	1.3	1
49	Evidence of a thermally-induced microstructural anisotropy in Gr/Co/Ir(111) systems. Applied Surface Science, 2021, 535, 146365.	6.1	1
50	Stabilization of an Enantiopure Submonolayer of Helicene Radical Cations on a Au(111) Surface through Noncovalent Interactions. Angewandte Chemie, 2021, 133, 15404-15408.	2.0	1
51	The reversible spin texture of ferroelectric GeTe for a tunable source of spin currents. , 2018, , .		0
52	Focused Kerr measurements on patterned arrays of exchange biased square dots. EPJ Web of Conferences, 2014, 75, 05003.	0.3	0