

Alexander Grutter

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

1,895
citations

236833

25
h-index

265120

42
g-index

66
all docs

66
docs citations

66
times ranked

2959
citing authors

#	ARTICLE	IF	CITATIONS
1	Tailoring exchange couplings in magnetic topological-insulator/antiferromagnet heterostructures. Nature Materials, 2017, 16, 94-100.	13.3	137
2	Phonon localization in heat conduction. Science Advances, 2018, 4, eaat9460.	4.7	108
3	Structural and magnetic depth profiles of magneto-ionic heterostructures beyond the interface limit. Nature Communications, 2016, 7, 12264.	5.8	107
4	Controllable positive exchange bias via redox-driven oxygen migration. Nature Communications, 2016, 7, 11050.	5.8	101
5	Exchange bias switching in an antiferromagnet/ferromagnet bilayer driven by spin-orbit torque. Nature Electronics, 2020, 3, 757-764.	13.1	99
6	Interfacial Ferromagnetism and Exchange Bias in CaRuO_3 . Physical Review Letters, 2012, 109, 197202.	2.9	82
7	Interfacial Ferromagnetism in LaNiO_3 . Physical Review Letters, 2013, 111, 087202.	2.9	79
8	Enhanced magnetism in epitaxial SrRuO_3 thin films. Applied Physics Letters, 2010, 96, .	1.5	68
9	Evidence of high-spin Ru and universal magnetic anisotropy in SrRuO_3 thin films. Physical Review B, 2012, 85, .	1.1	64
10	Exchange-biasing topological charges by antiferromagnetism. Nature Communications, 2018, 9, 2767.	5.8	61
11	Tunable magnetic ordering through cation selection in entropic spinel oxides. Physical Review Materials, 2019, 3, .	0.9	57
12	Compensated Ferrimagnetism in the Zero-Moment Heusler Alloy Mn_3Sn . Physical Review Applied, 2017, 7, .	1.5	52
13	Formation in epitaxial Mn_3Sn . Physical Review Applied, 2017, 7, .	0.9	44
14	Correlation-driven eightfold magnetic anisotropy in a two-dimensional oxide monolayer. Science Advances, 2020, 6, eaay0114.	4.7	43
15	Enhanced magnetization in epitaxial SrRuO_3 thin films via substrate-induced strain. Journal of Applied Physics, 2010, 107, .	1.1	42
16	Topological Transitions Induced by Antiferromagnetism in a Thin-Film Topological Insulator. Physical Review Letters, 2018, 121, 096802.	2.9	42
17	Dysprosium Iron Garnet Thin Films with Perpendicular Magnetic Anisotropy on Silicon. Advanced Electronic Materials, 2020, 6, 1900820.	2.6	41
18	Exploring interfacial exchange coupling and sublattice effect in heavy metal/ferrimagnetic insulator heterostructures using Hall measurements, x-ray magnetic circular dichroism, and neutron reflectometry. Physical Review B, 2019, 99, .	1.1	39

#	ARTICLE	IF	CITATIONS
19	Large exchange splitting in monolayer graphene magnetized by an antiferromagnet. Nature Electronics, 2020, 3, 604-611.	13.1	36
20	Emergent electric field control of phase transformation in oxide superlattices. Nature Communications, 2020, 11, 902.	5.8	35
21	Complex Three-Dimensional Magnetic Ordering in Segmented Nanowire Arrays. ACS Nano, 2017, 11, 8311-8319.	7.3	34
22	Reversible control of magnetism in La _{0.67} Sr _{0.33} MnO ₃ through chemically-induced oxygen migration. Applied Physics Letters, 2016, 108, .	1.5	33
23	Ionic tuning of cobaltites at the nanoscale. Physical Review Materials, 2018, 2, .	0.9	32
24	Manipulation of Coupling and Magnon Transport in Magnetic Metal-Insulator Hybrid Structures. Physical Review Applied, 2020, 13, .	1.5	31
25	Interfacial Symmetry Control of Emergent Ferromagnetism at the Nanoscale. Nano Letters, 2016, 16, 5647-5651.	4.5	30
26	Electric Field Control of Interfacial Ferromagnetism in CaMnO_3 . Physical Review Letters, 2015, 115, 047601.	2.9	28
27	Observation of Quantum Anomalous Hall Effect and Exchange Interaction in Topological Insulator/Antiferromagnet Heterostructure. Advanced Materials, 2020, 32, e2001460.	11.1	27
28	Termination switching of antiferromagnetic proximity effect in topological insulator. Science Advances, 2020, 6, eaaz8463.	4.7	20
29	Spin and Charge Interconversion in Dirac-Semimetal Thin Films. Physical Review Applied, 2021, 16, .	1.5	20
30	Spatial Evolution of the Ferromagnetic Phase Transition in an Exchange Graded Film. Physical Review Letters, 2016, 116, 047203.	2.9	19
31	Electrically Enhanced Exchange Bias via Solid-State Magneto-ionics. ACS Applied Materials & Interfaces, 2021, 13, 38916-38922.	4.0	16
32	Weak magnetism of Aurivillius-type multiferroic thin films probed by polarized neutron reflectivity. Physical Review Materials, 2018, 2, .	0.9	14
33	Strain-induced majority carrier inversion in ferromagnetic epitaxial LaCoO_3 thin films. Physical Review Materials, 2020, 4, .	0.9	14
34	Magnetic field-induced non-trivial electronic topology in Fe_3GeTe_2 . Applied Physics Reviews, 2021, 8, .	5.5	14
35	Engineering Magnetic Anisotropy and Emergent Multidirectional Soft Ferromagnetism in Ultrathin Freestanding LaMnO_3 Films. ACS Nano, 2022, 16, 7580-7588.	7.3	14
36	Stabilization of spin-zero RuMn_3 through epitaxial strain in SrRuO_3 thin films. Physical Review B, 2013, 88, .	1.1	13

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37	Magnetism in CaMnO ₃ thin films. Journal of Applied Physics, 2014, 115, 17D712.	1.1	13
38	Resonant Spin Transmission Mediated by Magnons in a Magnetic Insulator Multilayer Structure. Advanced Materials, 2021, 33, e2008555.	11.1	13
39	Large unidirectional spin Hall and Rashba-Edelstein magnetoresistance in topological insulator/magnetic insulator heterostructures. Applied Physics Reviews, 2022, 9, .	5.5	13
40	Quasi-two-dimensional electron gas behavior in doped LaAlO ₃ thin films on SrTiO ₃ substrates. Applied Physics Letters, 2013, 102, 131601.	1.5	12
41	Ultrathin interfacial layer with suppressed room temperature magnetization in magnesium aluminum ferrite thin films. Applied Physics Letters, 2019, 115, .	1.5	12
42	Precipitating ordered skyrmion lattices from helical spaghetti and granular powders. Physical Review Materials, 2019, 3, .	0.9	12
43	Interfacial-Redox-Induced Tuning of Superconductivity in YBa ₂ Cu ₃ O _{7-δ} . ACS Applied Materials & Interfaces, 2020, 12, 4741-4748.	4.0	11
44	Elucidating proximity magnetism through polarized neutron reflectometry and machine learning. Applied Physics Reviews, 2022, 9, .	5.5	11
45	Measurement and modeling of polarized specular neutron reflectivity in large magnetic fields. Journal of Applied Crystallography, 2016, 49, 1121-1129.	1.9	10
46	Magnetic proximity effect in magnetic-insulator/heavy-metal heterostructures across the compensation temperature. Physical Review B, 2021, 104, .	1.1	9
47	Topological Antiferromagnetic Van der Waals Phase in Topological Insulator/Ferromagnet Heterostructures Synthesized by a CMOS-Compatible Sputtering Technique. Advanced Materials, 2022, 34, e2108790.	11.1	9
48	Understanding Signatures of Emergent Magnetism in Topological Insulator/Ferrite Bilayers. Physical Review Letters, 2022, 128, 126802.	2.9	9
49	Damping Enhancement in Coherent Ferrite-Insulating-Paramagnet Bilayers. Physical Review Applied, 2019, 12, .	1.5	8
50	Magnetic proximity effects in topological insulator heterostructures: Implementation and characterization. Physical Review Materials, 2021, 5, .	0.9	8
51	X-ray nanodiffraction studies of ionically controlled nanoscale phase separation in cobaltites. Physical Review Materials, 2019, 3, .	0.9	8
52	Electron Doping BaZrO ₃ via Topochemical Reduction. ACS Applied Materials & Interfaces, 2019, 11, 21720-21726.	4.0	7
53	Hydrogen finds a home in ionic devices. Nature Materials, 2019, 18, 7-8.	13.3	6
54	Structure and magnetism of nanocrystalline and epitaxial (Mn,Zn,Fe) ₃ O ₄ thin films. Journal of Applied Physics, 2012, 111, .	1.1	5

#	ARTICLE	IF	CITATIONS
55	Long-Range Electric Field Control of Permalloy Layers in Strain-Coupled Composite Multiferroics. Physical Review Applied, 2018, 10, .	1.5	4
56	Effect of oxygen stoichiometry on the magnetization profiles and negative magnetization in LSMO thin films. Journal of Applied Physics, 2019, 126, 105301.	1.1	4
57	Differentiation between strain and charge mediated magnetoelectric coupling in $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})_{0.7}\text{Ti}_{0.3}$. New Journal of Physics, 2021, 23, 063043.		
58	Effects of field annealing on MnN/CoFeB exchange bias systems. Physical Review Materials, 2019, 3, .	0.9	4
59	Helical magnetism in Sr-doped $\text{CaMn}_7\text{O}_{12}$ films. Physical Review B, 2018, 98, .	1.1	2
60	Strain-induced competition between ferromagnetism and emergent antiferromagnetism in $(\text{Eu,Sr})\text{MnO}_3$. Physical Review Materials, 2018, 2, .	0.9	2
61	Perspective: Probing 2-D magnetic structures in a 3-D world. APL Materials, 2016, 4, 032402.	2.2	1
62	Polarized neutron reflectometry study of depth dependent magnetization variation in Co thin film due to strain transfer from PMN-PT substrate. Journal of Applied Physics, 2018, 124, 113903.	1.1	1
63	oxide superlattices of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})_{0.7}\text{Ti}_{0.3}$.		