

# Alexander Grutter

## List of Publications by Year in descending order

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65  
papers

1,895  
citations

236612

25  
h-index

264894

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all docs

66  
docs citations

66  
times ranked

2959  
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlling magnetic configuration in soft-hard bilayers probed by polarized neutron reflectometry. <i>APL Materials</i> , 2022, 10, 011107.	2.2	1
2	Large unidirectional spin Hall and Rashba-Edelstein magnetoresistance in topological insulator/magnetic insulator heterostructures. <i>Applied Physics Reviews</i> , 2022, 9, .	5.5	13
3	Topological Antiferromagnetic Van der Waals Phase in Topological Insulator/Ferromagnet Heterostructures Synthesized by a CMOS-Compatible Sputtering Technique. <i>Advanced Materials</i> , 2022, 34, e2108790.	11.1	9
4	Understanding Signatures of Emergent Magnetism in Topological Insulator/Ferrite Bilayers. <i>Physical Review Letters</i> , 2022, 128, 126802.	2.9	9
5	Elucidating proximity magnetism through polarized neutron reflectometry and machine learning. <i>Applied Physics Reviews</i> , 2022, 9, .	5.5	11
6	Engineering Magnetic Anisotropy and Emergent Multidirectional Soft Ferromagnetism in Ultrathin Freestanding $\text{LaMnO}_3$ Films. <i>ACS Nano</i> , 2022, 16, 7580-7588.	7.3	14
7	Resonant Spin Transmission Mediated by Magnons in a Magnetic Insulator Multilayer Structure. <i>Advanced Materials</i> , 2021, 33, e2008555.	11.1	13
8	Differentiation between strain and charge mediated magnetoelectric coupling in $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})_{0.7}\text{Ti}_{0.3}\text{O}_3$ . <i>New Journal of Physics</i> , 2021, 23, 063043.		
9	Electrically Enhanced Exchange Bias via Solid-State Magneto-ionics. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 38916-38922.	4.0	16
10	Magnetic proximity effects in topological insulator heterostructures: Implementation and characterization. <i>Physical Review Materials</i> , 2021, 5, .	0.9	8
11	Magnetic proximity effect in magnetic-insulator/heavy-metal heterostructures across the compensation temperature. <i>Physical Review B</i> , 2021, 104, .	1.1	9
12	Magnetic field-induced non-trivial electronic topology in $\text{Fe}_3\text{GeTe}_2$ . <i>Applied Physics Reviews</i> , 2021, 8, .	5.5	14
13	Spin and Charge Interconversion in Dirac-Semimetal Thin Films. <i>Physical Review Applied</i> , 2021, 16, .	1.5	20
14	Interfacial-Redox-Induced Tuning of Superconductivity in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ . <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 4741-4748.	4.0	11
15	Dysprosium Iron Garnet Thin Films with Perpendicular Magnetic Anisotropy on Silicon. <i>Advanced Electronic Materials</i> , 2020, 6, 1900820.	2.6	41
16	Observation of Quantum Anomalous Hall Effect and Exchange Interaction in Topological Insulator/Antiferromagnet Heterostructure. <i>Advanced Materials</i> , 2020, 32, e2001460.	11.1	27
17	Large exchange splitting in monolayer graphene magnetized by an antiferromagnet. <i>Nature Electronics</i> , 2020, 3, 604-611.	13.1	36
18	Termination switching of antiferromagnetic proximity effect in topological insulator. <i>Science Advances</i> , 2020, 6, eaaz8463.	4.7	20

#	ARTICLE	IF	CITATIONS
19	Exchange bias switching in an antiferromagnet/ferromagnet bilayer driven by spin-orbit torque. Nature Electronics, 2020, 3, 757-764.	13.1	99
20	Charge carrier transport with low-temperature anomalies in engineered oxide superlattices of		

#	ARTICLE	IF	CITATIONS
37	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
38	Long-Range Electric Field Control of Permalloy Layers in Strain-Coupled Composite Multiferroics. Physical Review Applied, 2018, 10, .	1.5	4
39	Topological Transitions Induced by Antiferromagnetism in a Thin-Film Topological Insulator. Physical Review Letters, 2018, 121, 096802.	2.9	42
40	Exchange-biasing topological charges by antiferromagnetism. Nature Communications, 2018, 9, 2767.	5.8	61
41	Weak magnetism of Aurivillius-type multiferroic thin films probed by polarized neutron reflectivity. Physical Review Materials, 2018, 2, .	0.9	14
42	Resolving interfacial charge transfer in titanate superlattices using resonant x-ray reflectometry. Physical Review Materials, 2018, 2, .	0.9	1
43	Strain-induced competition between ferromagnetism and emergent antiferromagnetism in (Eu,Sr) $\text{MnO}_3$ . Physical Review Materials, 2018, 2, .	0.9	2
44	Ionic tuning of cobaltites at the nanoscale. Physical Review Materials, 2018, 2, .	0.9	32
45	Complex Three-Dimensional Magnetic Ordering in Segmented Nanowire Arrays. ACS Nano, 2017, 11, 8311-8319.	7.3	34
46	Compensated Ferrimagnetism in the Zero-Moment Heusler Alloy $\text{Mn}_3\text{Sn}$ . Physical Review Applied, 2017, 7, .	1.5	52
47	Tailoring exchange couplings in magnetic topological-insulator/antiferromagnet heterostructures. Nature Materials, 2017, 16, 94-100.	13.3	137
48	Ion-gel-gating-induced oxygen vacancy formation in epitaxial $\text{La}_{0.5}\text{Sr}_{0.5}\text{MnO}_3$ . Physical Review Applied, 2016, 5, .	0.9	44
49	Reversible control of magnetism in $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ through chemically-induced oxygen migration. Applied Physics Letters, 2016, 108, .	1.5	33
50	Controllable positive exchange bias via redox-driven oxygen migration. Nature Communications, 2016, 7, 11050.	5.8	101
51	Perspective: Probing 2-D magnetic structures in a 3-D world. APL Materials, 2016, 4, 032402.	2.2	1
52	Structural and magnetic depth profiles of magneto-ionic heterostructures beyond the interface limit. Nature Communications, 2016, 7, 12264.	5.8	107
53	Interfacial Symmetry Control of Emergent Ferromagnetism at the Nanoscale. Nano Letters, 2016, 16, 5647-5651.	4.5	30
54	Spatial Evolution of the Ferromagnetic Phase Transition in an Exchange Graded Film. Physical Review Letters, 2016, 116, 047203.	2.9	19

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55	Measurement and modeling of polarized specular neutron reflectivity in large magnetic fields. Journal of Applied Crystallography, 2016, 49, 1121-1129.	1.9	10
56	Electric Field Control of Interfacial Ferromagnetism in $\text{CaMnO}_3$ thin films. Physical Review Letters, 2015, 115, 047601.	2.9	28
57	Magnetism in $\text{CaMnO}_3$ thin films. Journal of Applied Physics, 2014, 115, 17D712.	1.1	13
58	Stabilization of spin-zero $\text{RuO}_4$ through epitaxial strain in $\text{SrRuO}_3$ thin films. Physical Review B, 2013, 88, .	1.1	13
59	Quasi-two-dimensional electron gas behavior in doped $\text{LaAlO}_3$ thin films on $\text{SrTiO}_3$ substrates. Applied Physics Letters, 2013, 102, 131601.	1.5	12
60	Interfacial Ferromagnetism in $\text{LaNiO}_3$ thin films. Physical Review Letters, 2013, 111, 087202.	1.1	5
61	Structure and magnetism of nanocrystalline and epitaxial $(\text{Mn,Zn,Fe})_3\text{O}_4$ thin films. Journal of Applied Physics, 2012, 111, .	1.1	5
62	Evidence of high-spin Ru and universal magnetic anisotropy in $\text{SrRuO}_3$ thin films. Physical Review B, 2012, 85, .	1.1	64
63	Interfacial Ferromagnetism and Exchange Bias in $\text{CaRuO}_3$ thin films. Physical Review Letters, 2012, 109, 197202.	2.9	82
64	Enhanced magnetization in epitaxial $\text{SrRuO}_3$ thin films via substrate-induced strain. Journal of Applied Physics, 2010, 107, .	1.1	42
65	Enhanced magnetism in epitaxial $\text{SrRuO}_3$ thin films. Applied Physics Letters, 2010, 96, .	1.5	68