

# Gillian A Gehring

## List of Publications by Year in descending order

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66  
papers

3,523  
citations

304743

22  
h-index

133252

59  
g-index

68  
all docs

68  
docs citations

68  
times ranked

3551  
citing authors

#	ARTICLE	IF	CITATIONS
1	A case of antiferrochirality in a liquid crystal phase of counter-rotating staircases. Nature Communications, 2022, 13, 384.	12.8	13
2	Quasi-continuous melting of model polymer monolayers prompts reinterpretation of polymer melting. Nature Communications, 2021, 12, 1710.	12.8	13
3	Magnetism from Co and Eu implanted into ZnO. Journal of Magnetism and Magnetic Materials, 2021, 527, 167741.	2.3	4
4	Roughening Transition and Quasi-continuous Melting of Monolayers of Ultra-long Alkanes: Why Bulk Polymer Melting Is Strongly First-Order. Macromolecules, 2021, 54, 10135-10149.	4.8	7
5	Influence of Fe <sub>3</sub> O <sub>4</sub> on metal-insulator transition temperature of La <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> thin films. Journal of Materials Science, 2020, 55, 99-106.	3.7	0
6	An Ising transition of chessboard tilings in a honeycomb liquid crystal. Molecular Systems Design and Engineering, 2019, 4, 396-406.	3.4	5
7	Extremely large $d_{\text{eff}}$ magnetism in krypton implanted polar ZnO films. Journal of Materials Chemistry C, 2019, 7, 1138-1145.	5.5	25
8	Relevance of the Preparation of the Target for PLD on the Magnetic Properties of Films of Iron-Doped Indium Oxide. Coatings, 2019, 9, 381.	2.6	4
9	Study of the radiation damage caused by ion implantation in ZnO and its relation to magnetism. Nuclear Instruments & Methods in Physics Research B, 2019, 455, 7-12.	1.4	18
10	Competing magnetic effects due to the incorporation of oxygen in thin films of (ZnCo)O. RSC Advances, 2019, 9, 38001-38010.	3.6	1
11	Molecular ejection transition in liquid crystal columns self-assembled from wedge-shaped minidendrons. Soft Matter, 2019, 15, 22-29.	2.7	12
12	Growth of high quality yttrium iron garnet films using standard pulsed laser deposition technique. Journal of Magnetism and Magnetic Materials, 2018, 453, 254-257.	2.3	9
13	Investigation of the distribution of localised and extended states in amorphous MoO <sub>x</sub> . AIP Advances, 2018, 8, .	1.3	4
14	Monte Carlo study of the ordering in a strongly frustrated liquid crystal. Physical Review E, 2017, 95, 062126.	2.1	9
15	Spin Transport and Magnetism in Low-Dimensional Materials. Advances in Condensed Matter Physics, 2017, 2017, 1-2.	1.1	0
16	Enhanced magnetic properties in ZnCoAlO caused by exchange-coupling to Co nanoparticles. New Journal of Physics, 2016, 18, 113040.	2.9	9
17	Advantageous use of metallic cobalt in the target for pulsed laser deposition of cobalt-doped ZnO films. Applied Physics Letters, 2016, 109, .	3.3	9
18	Magnetic Coupling of Dissimilar Zn-Co Granular Films Through a ZnO Spacer. Spin, 2015, 05, 1540008.	1.3	2

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19	ZnO gap states investigated using magnetic circular dichroism. Journal Physics D: Applied Physics, 2015, 48, 255502.	2.8	3
20	Surface-polarity-dependent ferromagnetism in arsenic-implanted ZnO films prepared by MBE. Materials Letters, 2015, 144, 12-14.	2.6	16
21	Magnetic properties of $\text{In}_2\text{O}_3$ containing $\text{Fe}_3\text{O}_4$ nanoparticles. Physical Review B, 2014, 90, .	3.2	12
22	Structural and magnetotransport properties of ultrathin Co/ZnO and Co/ZnAlO films. Journal of Applied Physics, 2014, 115, 233908.	2.5	0
23	Enhancement of the metal-insulator transition temperature in $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ film by magnetic nanodots. Applied Physics Letters, 2013, 102, .	3.3	3
24	Enhanced Room Temperature Magnetoresistance and Spin Injection from Metallic Cobalt in Co/ZnO and Co/ZnAlO Films. ACS Applied Materials & Interfaces, 2013, 5, 3607-3613.	8.0	34
25	Room Temperature Ferromagnetism and Band Gap Investigations in Mg Doped ZnO RF/DC Sputtered Films. Materials Research Society Symposia Proceedings, 2013, 1494, 115-120.	0.1	0
26	Contrasting behavior of the structural and magnetic properties in Mn- and Fe-doped $\text{In}_2\text{O}_3$ films. APL Materials, 2013, 1, .	5.1	9
27	Grain boundary ferromagnetism in vanadium-doped $\text{In}_2\text{O}_3$ thin films. Europhysics Letters, 2013, 103, 67007.	2.0	4
28	Room Temperature Ferromagnetism and Band Gap Engineering in Mg Doped ZnO RF/DC Sputtered Films. Materials Research Society Symposia Proceedings, 2013, 1577, 1.	0.1	8
29	Magneto-optic studies of magnetic oxides. Journal of Magnetism and Magnetic Materials, 2012, 324, 3422-3426.	2.3	23
30	Donor-band ferromagnetism in cobalt-doped indium oxide. Physical Review B, 2011, 84, .	3.2	42
31	Complex Multicolor Tilings and Critical Phenomena in Tetraphilic Liquid Crystals. Science, 2011, 331, 1302-1306.	12.6	99
32	Carrier-mediated nonlocal ferromagnetic coupling between local magnetic polarons in Fe-doped $\text{In}_2\text{O}_3$ thin films. Physical Review B, 2011, 84, .	3.2	41
33	Room temperature ferromagnetism in metallic and insulating $(\text{In}_{1-x}\text{Fe}_x)_2\text{O}_3$ thin films. Journal of Applied Physics, 2011, 109, .	2.5	40
34	Simulation of the tunnelling transport in ferromagnetic GaAs/ZnO heterojunctions. Journal of Physics: Conference Series, 2010, 242, 012015.	0.4	1
35	Defects Inducing Ferromagnetism in Carbon-Doped ZnO Films. IEEE Transactions on Magnetics, 2010, 46, 1382-1384.	2.1	23
36	Investigation of structure and magnetoresistance in Co/ZnO films. Journal of Applied Physics, 2010, 108, .	2.5	22

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37	Role of carrier and spin in tuning ferromagnetism in Mn and Cr-doped In <sub>2</sub> O <sub>3</sub> thin films. Applied Physics Letters, 2010, 96, .	3.3	42
38	Landau theory of compressible magnets near a quantum critical point. Journal of Applied Physics, 2010, 107, 09E125.	2.5	3
39	Magneto-optical properties of Co/ZnO multilayer films. Journal of Physics: Conference Series, 2010, 200, 062024.	0.4	8
40	Room temperature ferromagnetism in pristine MgO thin films. Applied Physics Letters, 2010, 96, .	3.3	105
41	Using Magnetic and Optical Methods to Determine the Size and Characteristics of Nanoparticles Embedded in Oxide Semiconductors. IEEE Transactions on Magnetics, 2010, 46, 1784-1786.	2.1	1
42	Spin-polarized transport current in $n$ -type codoped ZnO thin films measured by Andreev spectroscopy. Physical Review B, 2009, 80, .	3.2	12
43	Volume collapse in $\text{LaMnO}_3$ using an anisotropic Potts model. Physical Review B, 2009, 79, .	3.3	1
44	Magnetic and transport properties of n-type Fe-doped In <sub>2</sub> O <sub>3</sub> ferromagnetic thin films. Applied Physics Letters, 2009, 94, .	3.3	56
45	Role of donor defects in enhancing ferromagnetism of Cu-doped ZnO films. Journal of Applied Physics, 2009, 105, 103914.	2.5	61
46	Numerical simulation of a ferromagnetic spin-polarised diode. , 2009, , .		2
47	Magnetic circular dichroism spectroscopy in epitaxial La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> thin films. Journal of Applied Physics, 2009, 105, 07D709.	2.5	6
48	Magnetoconductance of magnetically doped ZnO films. Journal of Physics Condensed Matter, 2009, 21, 346001.	1.8	12
49	X-ray absorption fine structure and magnetization characterization of the metallic Co component in Co-doped ZnO thin films. Physical Review B, 2009, 79, .	3.2	53
50	Theory of magnetism with temporal disorder applied to magnetically doped ZnO. Journal of Applied Physics, 2009, 105, 07E325.	2.5	1
51	Two Magnetic Regimes in Doped ZnO Corresponding to a Dilute Magnetic Semiconductor and a Dilute Magnetic Insulator. Physical Review Letters, 2008, 100, 047206.	7.8	322
52	Magnetoconductance in Co/ZnO Films. IEEE Transactions on Magnetics, 2008, 44, 2684-2687.	2.1	13
53	Monte Carlo simulation of growth of binary bcc structured layers. Physical Review B, 2008, 78, .	3.2	4
54	Enhancement of magnetic moment of Co-doped ZnO films by postannealing in vacuum. Journal of Applied Physics, 2008, 103, .	2.5	30

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55	Room Temperature Magneto-optics Of Ferromagnetic ZnO Doped With Transition Metals And Aluminum. AIP Conference Proceedings, 2007, , .	0.4	0
56	Extrinsic and intrinsic origins of anisotropic magnetoresistance in doped YIG. Physica Status Solidi (B): Basic Research, 2007, 244, 2487-2491.	1.5	2
57	Room-Temperature Magneto-Optics of Ferromagnetic Transition-Metal-Doped ZnO Thin Films. Physical Review Letters, 2006, 96, 197208.	7.8	201
58	Carrier-induced ferromagnetism in n-type ZnMnAlO and ZnCoAlO thin films at room temperature. New Journal of Physics, 2006, 8, 135-135.	2.9	140
59	Spin-polarized charge transport through ionic clusters of magnetic oxides. Physica Status Solidi (B): Basic Research, 2006, 243, 255-258.	1.5	1
60	Ferromagnetism above room temperature in bulk and transparent thin films of Mn-doped ZnO. Nature Materials, 2003, 2, 673-677.	27.5	1,687
61	Defect states and commensurability in dual-period $\text{Al}_x\text{Ga}_{1-x}$ photonic crystal waveguides. Physical Review B, 2003, 68, .	3.2	31
62	Influence of interfaces on magnetostrictive granular films. Physical Review B, 2002, 65, .	3.2	1
63	The effect of thermal treatment, composition and substrate on the texture and magnetic properties of FeCo thin films. Journal Physics D: Applied Physics, 2000, 33, 1450-1459.	2.8	38
64	Self-Interaction Free Relativistic Local Spin Density Approximation: Equivalent of Hund's Rules in $\text{f}^3$ -Ce. Physical Review Letters, 1997, 79, 3970-3973.	7.8	47
65	O(N) Multiple Scattering Method for Relativistic and Spin Polarized Systems. Materials Research Society Symposia Proceedings, 1995, 408, 73.	0.1	0
66	On the microscopic theory of the magnetoelectric effect. Ferroelectrics, 1994, 161, 275-285.	0.6	110