

Lin Chen

List of Publications by Year in descending order

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46
papers

1,000
citations

567144

15
h-index

414303

32
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47
all docs

47
docs citations

47
times ranked

1308
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancing the Curie Temperature of Ferromagnetic Semiconductor (Ga,Mn)As to 200 K via Nanostructure Engineering. Nano Letters, 2011, 11, 2584-2589.	4.5	273
2	Low-temperature magnetotransport behaviors of heavily Mn-doped (Ga,Mn)As films with high ferromagnetic transition temperature. Applied Physics Letters, 2009, 95, .	1.5	124
3	Direct-current voltages in (Ga,Mn)As structures induced by ferromagnetic resonance. Nature Communications, 2013, 4, 2055.	5.8	87
4	Emergence of anisotropic Gilbert damping in ultrathin Fe layers on GaAs(001). Nature Physics, 2018, 14, 490-494.	6.5	75
5	Robust spin-orbit torque and spin-galvanic effect at the Fe/GaAs (001) interface at room temperature. Nature Communications, 2016, 7, 13802.	5.8	48
6	Spin pumping during the antiferromagnetic-ferromagnetic phase transition of iron-rhodium. Nature Communications, 2020, 11, 275.	5.8	41
7	Ferromagnetic Interfacial Interaction and the Proximity Effect in a $\text{Co}_2\text{MnFeAlGaMnTj}$ Heusler Alloy. Physical Review Letters, 2019, 123, 077201.	2.8	99
8	DC voltages in Py and Py/Pt under ferromagnetic resonance. Applied Physics Express, 2014, 7, 013002.	1.1	31
9	Electric-Field Modulation of Damping Constant in a Ferromagnetic Semiconductor (Ga,Mn)As. Physical Review Letters, 2015, 115, 057204.	2.9	29
10	Magnetic properties of full-Heusler alloy $\text{Co}_2\text{Fe}_{1-x}\text{Mn}_x\text{Al}$ films grown by molecular-beam epitaxy. Applied Physics Letters, 2010, 97, .	1.5	28
11	Electric-field control of interfacial spin-orbit fields. Nature Electronics, 2018, 1, 350-355.	13.1	26
12	Fermi level position, Coulomb gap and Dresselhaus splitting in (Ga,Mn)As. Scientific Reports, 2016, 6, 27266.	1.6	24
13	Enhancement of the Curie temperature of ferromagnetic semiconductor (Ga,Mn)As. Science China: Physics, Mechanics and Astronomy, 2013, 56, 99-110.	2.0	20
14	Intrinsically limited critical temperatures of highly doped $\text{Ga}_{1-x}\text{Mn}_x\text{As}$ films. Physical Review B, 2010, 81, .	1.1	19
15	Precise tuning of the Curie temperature of (Ga,Mn)As-based magnetic semiconductors by hole compensation: Support for valence-band ferromagnetism. Physical Review B, 2016, 94, .	1.1	17
16	Spin relaxation and dephasing mechanism in (Ga,Mn)As studied by time-resolved Kerr rotation. Applied Physics Letters, 2009, 94, 142109.	1.5	14
17	Strain and magnetic anisotropy of as-grown and annealed Fe films on $c(4\times 4)$ reconstructed GaAs (001) surface. Journal of Applied Physics, 2009, 106, .	1.1	12
18	Strain-induced high ferromagnetic transition temperature of MnAs epilayer grown on GaAs (110). Nanoscale Research Letters, 2011, 6, 125.	3.1	12

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19	Improved tunneling magnetoresistance in (Ga,Mn)As/AlOx/CoFeB magnetic tunnel junctions. Applied Physics Letters, 2011, 98, 262501.	1.5	12
20	Influence of Si doping on magnetic properties of (Ga,Mn)As. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 41, 84-87.	1.3	9
21	Connections between spin-orbit torques and unidirectional magnetoresistance in ferromagnetic-metal/heavy-metal heterostructures. Physical Review B, 2022, 105, .	1.1	8
22	Origin of ferromagnetism in self-assembled Ga _{1-x} Mn _x As quantum dots grown on Si. Applied Physics Letters, 2010, 97, .	1.5	7
23	Electron spin dynamics in heavily Mn-doped (Ga,Mn)As. Applied Physics Letters, 2010, 97, 262109.	1.5	7
24	Temperature dependence of in-plane magnetic anisotropy and anisotropic magnetoresistance in (Ga,Mn)As codoped with Li. Applied Physics Letters, 2016, 108, .	1.5	7
25	Quantitative determination of the Mn site distribution in ultrathin Ga _{0.80} Mn _{0.20} As layers with high critical temperatures: A Rutherford backscattering channeling investigation. Physical Review B, 2014, 89, .	1.1	6
26	Depth profile of the tetragonal distortion in thick GaMnAs layers grown on GaAs by Rutherford backscattering/channeling. AIP Advances, 2012, 2, 042102.	0.6	4
27	Inverse spin Hall effect in Pt/(Ga,Mn)As. Applied Physics Letters, 2015, 106, 222405.	1.5	4
28	Ferromagnetic resonance of Py deposited on ZnO grown by molecular beam epitaxy. Japanese Journal of Applied Physics, 2015, 54, 093001.	0.8	4
29	Easy axis reorientation and magneto-crystalline anisotropic resistance of tensile strained (Ga,Mn)As films. Journal of Magnetism and Magnetic Materials, 2010, 322, 3250-3254.	1.0	3
30	Mobility spectrum analysis on three-dimensional topological insulator BiSbTeSe ₂ . Applied Physics Letters, 2021, 118, .	1.5	3
31	Structure and magnetic property of (Ga,Cr)As films with different Cr contents. Europhysics Letters, 2010, 89, 67003.	0.7	2
32	Determining the sign of g-factor via time-resolved Kerr rotation spectroscopy with a rotatable magnetic field. Chinese Physics B, 2011, 20, 087503.	0.7	2
33	Note: Simultaneous measurements of magnetization and electrical transport signal by a reconstructed superconducting quantum interference device magnetometer. Review of Scientific Instruments, 2013, 84, 086103.	0.6	2
34	Annealing effect on ferromagnetic properties, hole concentration and electronic band structure of GaMnAs epitaxial layers. Journal of Materials Science: Materials in Electronics, 2017, 28, 17622-17626.	1.1	2
35	Fabrication of (Ga,Mn)As magnetic semiconductor quantum dots on Si substrates by droplet epitaxy. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 393-395.	0.8	1
36	The structural and magnetic properties of Fe/(Ga, Mn)As heterostructures. Journal of Semiconductors, 2013, 34, 083003.	2.0	1

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37	Properties of (Ga,Mn)As codoped with Li. Applied Physics Letters, 2014, 104, 222408.	1.5	1
38	Magnetization dynamics and related phenomena in semiconductors with ferromagnetism. Journal of Semiconductors, 2019, 40, 081502.	2.0	1
39	Dynamic detection of current-induced spin-orbit magnetic fields. Physical Review B, 2021, 104, .	1.1	1
40	Anisotropic strain relaxation of thin Fe film on c(4 \times 4) reconstructed GaAs (001) surface. Physica E: Low-Dimensional Systems and Nanostructures, 2009, 42, 150-153.	1.3	0
41	Positively charged manganese acceptor disclosed by photoluminescence spectra in an n-i-p-i-n heterostructure with a Mn-doped GaAs base. Journal of Applied Physics, 2011, 109, 093507.	1.1	0
42	Hole density of ferromagnetic semiconductor (Ga, Mn)As studied via pulsed high magnetic field. Journal of Physics: Conference Series, 2012, 400, 042004.	0.3	0
43	Band modification in (Ga, Mn)As evidenced by new measurement scheme " photoresistance magnetic circular dichroism. European Physical Journal B, 2012, 85, 1.	0.6	0
44	Annealing effect on the electron spin dynamics in heavily Mn-doped (Ga,Mn)As. Journal of the Korean Physical Society, 2014, 64, 1504-1508.	0.3	0
45	Magnetotransport Behaviors of (Ga,Mn)As-Based Nanostructures and Devices. , 2015, , 1-25.		0
46	Magneto-Transport Behaviors of (Ga,Mn)As Based Nano-structures and Devices. , 2016, , 585-614.		0