

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
g-index

47
all docs

47
docs citations

47
times ranked

1308
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Connections between spin-orbit torques and unidirectional magnetoresistance in ferromagnetic-metal/heavy-metal heterostructures. <i>Physical Review B</i> , 2022, 105, . | 1.1 | 8 |
| 2 | Mobility spectrum analysis on three-dimensional topological insulator BiSbTeSe ₂ . <i>Applied Physics Letters</i> , 2021, 118, . | 1.5 | 3 |
| 3 | Dynamic detection of current-induced spin-orbit magnetic fields. <i>Physical Review B</i> , 2021, 104, . | 1.1 | 1 |
| 4 | Spin pumping during the antiferromagnetic-ferromagnetic phase transition of iron-rhodium. <i>Nature Communications</i> , 2020, 11, 275. | 5.8 | 41 |
| 5 | Magnetization dynamics and related phenomena in semiconductors with ferromagnetism. <i>Journal of Semiconductors</i> , 2019, 40, 081502. | 2.0 | 1 |
| 6 | Emergence of anisotropic Gilbert damping in ultrathin Fe layers on GaAs(001). <i>Nature Physics</i> , 2018, 14, 490-494. | 6.5 | 75 |
| 7 | Electric-field control of interfacial spin-orbit fields. <i>Nature Electronics</i> , 2018, 1, 350-355. | 13.1 | 26 |
| 8 | Annealing effect on ferromagnetic properties, hole concentration and electronic band structure of GaMnAs epitaxial layers. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 17622-17626. | 1.1 | 2 |
| 9 | Robust spin-orbit torque and spin-galvanic effect at the Fe/GaAs (001) interface at room temperature. <i>Nature Communications</i> , 2016, 7, 13802. | 5.8 | 48 |
| 10 | Precise tuning of the Curie temperature of (Ga,Mn)As-based magnetic semiconductors by hole compensation: Support for valence-band ferromagnetism. <i>Physical Review B</i> , 2016, 94, . | 1.1 | 17 |
| 11 | Fermi level position, Coulomb gap and Dresselhaus splitting in (Ga,Mn)As. <i>Scientific Reports</i> , 2016, 6, 27266. | 1.6 | 24 |
| 12 | Temperature dependence of in-plane magnetic anisotropy and anisotropic magnetoresistance in (Ga,Mn)As codoped with Li. <i>Applied Physics Letters</i> , 2016, 108, . | 1.5 | 7 |
| 13 | Magneto-Transport Behaviors of (Ga,Mn)As Based Nano-structures and Devices. , 2016, , 585-614. | | 0 |
| 14 | Electric-Field Modulation of Damping Constant in a Ferromagnetic Semiconductor (Ga,Mn)As. <i>Physical Review Letters</i> , 2015, 115, 057204. | 2.9 | 29 |
| 15 | Inverse spin Hall effect in Pt/(Ga,Mn)As. <i>Applied Physics Letters</i> , 2015, 106, 222405. | 1.5 | 4 |
| 16 | Ferromagnetic resonance of Py deposited on ZnO grown by molecular beam epitaxy. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 093001. | 0.8 | 4 |
| 17 | Magnetotransport Behaviors of (Ga,Mn)As-Based Nanostructures and Devices. , 2015, , 1-25. | | 0 |
| 18 | Properties of (Ga,Mn)As codoped with Li. <i>Applied Physics Letters</i> , 2014, 104, 222408. | 1.5 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Quantitative determination of the Mn site distribution in ultrathin $\text{Ga}_{0.80}\text{Mn}_{0.20}$ layers with high critical temperatures: A Rutherford backscattering channeling investigation. <i>Physical Review B</i> , 2014, 89, . | 1.1 | 6 |
| 20 | DC voltages in Py and Py/Pt under ferromagnetic resonance. <i>Applied Physics Express</i> , 2014, 7, 013002. | 1.1 | 31 |
| 21 | Annealing effect on the electron spin dynamics in heavily Mn-doped (Ga,Mn)As. <i>Journal of the Korean Physical Society</i> , 2014, 64, 1504-1508. | 0.3 | 0 |
| 22 | Enhancement of the Curie temperature of ferromagnetic semiconductor (Ga,Mn)As. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013, 56, 99-110. | 2.0 | 20 |
| 23 | Note: Simultaneous measurements of magnetization and electrical transport signal by a reconstructed superconducting quantum interference device magnetometer. <i>Review of Scientific Instruments</i> , 2013, 84, 086103. | 0.6 | 2 |
| 24 | Direct-current voltages in (Ga,Mn)As structures induced by ferromagnetic resonance. <i>Nature Communications</i> , 2013, 4, 2055. | 5.8 | 87 |
| 25 | The structural and magnetic properties of Fe/(Ga, Mn)As heterostructures. <i>Journal of Semiconductors</i> , 2013, 34, 083003. | 2.0 | 1 |
| 26 | Ferromagnetic Interfacial Interaction and the Proximity Effect in a $\text{Co}_2\text{FeAl}/\text{GaMnAs}$ Tj ETQqO O 0 0 BT /Overl | 2.8 | 33 |
| 27 | 111, 027203. Hole density of ferromagnetic semiconductor (Ga, Mn)As studied via pulsed high magnetic field. <i>Journal of Physics: Conference Series</i> , 2012, 400, 042004. | 0.3 | 0 |
| 28 | Depth profile of the tetragonal distortion in thick GaMnAs layers grown on GaAs by Rutherford backscattering/channeling. <i>AIP Advances</i> , 2012, 2, 042102. | 0.6 | 4 |
| 29 | Band modification in (Ga, Mn)As evidenced by new measurement scheme “ photoresistance magnetic circular dichroism. <i>European Physical Journal B</i> , 2012, 85, 1. | 0.6 | 0 |
| 30 | Enhancing the Curie Temperature of Ferromagnetic Semiconductor (Ga,Mn)As to 200 K via Nanostructure Engineering. <i>Nano Letters</i> , 2011, 11, 2584-2589. | 4.5 | 273 |
| 31 | Positively charged manganese acceptor disclosed by photoluminescence spectra in an n-i-p-i-n heterostructure with a Mn-doped GaAs base. <i>Journal of Applied Physics</i> , 2011, 109, 093507. | 1.1 | 0 |
| 32 | Strain-induced high ferromagnetic transition temperature of MnAs epilayer grown on GaAs (110). <i>Nanoscale Research Letters</i> , 2011, 6, 125. | 3.1 | 12 |
| 33 | Fabrication of (Ga,Mn)As magnetic semiconductor quantum dots on Si substrates by droplet epitaxy. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 393-395. | 0.8 | 1 |
| 34 | Improved tunneling magnetoresistance in (Ga,Mn)As/AlOx/CoFeB magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2011, 98, 262501. | 1.5 | 12 |
| 35 | Determining the sign of g factor via time-resolved Kerr rotation spectroscopy with a rotatable magnetic field. <i>Chinese Physics B</i> , 2011, 20, 087503. | 0.7 | 2 |
| 36 | Structure and magnetic property of (Ga,Cr)As films with different Cr contents. <i>Europhysics Letters</i> , 2010, 89, 67003. | 0.7 | 2 |

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|----|---|-----|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | 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 |
| 40 | Origin of ferromagnetism in self-assembled $\text{Ga}_{1-x}\text{Mn}_x\text{As}$ quantum dots grown on Si. Applied Physics Letters, 2010, 97, . | 1.5 | 7 |
| 41 | Electron spin dynamics in heavily Mn-doped (Ga,Mn)As. Applied Physics Letters, 2010, 97, 262109. | 1.5 | 7 |
| 42 | Spin relaxation and dephasing mechanism in (Ga,Mn)As studied by time-resolved Kerr rotation. Applied Physics Letters, 2009, 94, 142109. | 1.5 | 14 |
| 43 | Strain and magnetic anisotropy of as-grown and annealed Fe films on $c(4\sqrt{3}\times 4)$ reconstructed GaAs (001) surface. Journal of Applied Physics, 2009, 106, . | 1.1 | 12 |
| 44 | Anisotropic strain relaxation of thin Fe film on $c(4\sqrt{3}\times 4)$ reconstructed GaAs (001) surface. Physica E: Low-Dimensional Systems and Nanostructures, 2009, 42, 150-153. | 1.3 | 0 |
| 45 | 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 |
| 46 | 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 |