

Yuan Lu

List of Publications by Year in descending order

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82

papers

1,632

citations

331670

21

h-index

315739

38

g-index

83

all docs

83

docs citations

83

times ranked

2354

citing authors

#	ARTICLE	IF	CITATIONS
1	Recombination Time Mismatch and Spin Dependent Photocurrent at a Ferromagnetic-Metal–Semiconductor Tunnel Junction. <i>Physical Review Letters</i> , 2022, 128, 057701.	7.8	4
2	Low-Energy Spin Precession in the Molecular Field of a Magnetic Thin Film. <i>Annalen Der Physik</i> , 2021, 533, 2000470.	2.4	4
3	Electrical Spin Injection into the 2D Electron Gas in AlN/GaN Heterostructures with Ultrathin AlN Tunnel Barrier. <i>Advanced Functional Materials</i> , 2021, 31, 2009771.	14.9	11
4	Large Perpendicular Magnetic Anisotropy in Ta/CoFeB/MgO on Full-Coverage Monolayer MoS ₂ and First-Principles Study of Its Electronic Structure. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 32579-32589.	8.0	11
5	Spin dependent charge transfer in MoSe ₂ /hBN/Ni hybrid structures. <i>Applied Physics Letters</i> , 2021, 119, 263103.	3.3	0
6	Spin Injection and Relaxation in p -Doped (In,Ga)As/GaAs Quantum-Dot Spin Light-Emitting Diodes at Zero Magnetic Field. <i>Physical Review Applied</i> , 2020, 14, .	3.8	12
7	Enhancement of ferroelectric performance in PVDF:Fe3O4 nanocomposite based organic multiferroic tunnel junctions. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	19
8	Movable-Type Transfer and Stacking of van der Waals Heterostructures for Spintronics. <i>IEEE Access</i> , 2020, 8, 70488-70495.	4.2	13
9	Temperature dependence of transport mechanisms in organic multiferroic tunnel junctions. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 325301.	2.8	2
10	Electrical detection of light helicity using a quantum-dot-based hybrid device at zero magnetic field. <i>Physical Review Materials</i> , 2020, 4, .	2.4	4
11	Research progress of spin light emitting diode. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020, 69, 208501.	0.5	0
12	Comparison of spin photocurrent in devices based on in-plane or out-of-plane magnetized CoFeB spin detectors. <i>Physical Review B</i> , 2019, 100, .	3.2	2
13	Recovery of surface state bands after desorption of Te capping layer on (Bi _{1-x} Sb _x) ₂ Te ₃ ternary topological insulators. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 494002.	2.8	7
14	Influence of the magnetic field sweeping rate on magnetic transitions in synthetic ferrimagnets with perpendicular anisotropy. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	10
15	Multifunctional Photodetectors Based on Nanolayered Black Phosphorus/SnS _{0.5} Se _{1.5} Heterostructures. <i>ACS Applied Nano Materials</i> , 2019, 2, 3548-3555.	5.0	10
16	Coherent Resonant Tunneling through Double Metallic Quantum Well States. <i>Nano Letters</i> , 2019, 19, 3019-3026.	9.1	22
17	Evidence of a strong perpendicular magnetic anisotropy in Au/Co/MgO/GaN heterostructures. <i>Nanoscale Advances</i> , 2019, 1, 4466-4475.	4.6	5
18	Evidence of Pure Spin-Current Generated by Spin Pumping in Interface-Localized States in Hybrid Metal–Silicon–Metal Vertical Structures. <i>Nano Letters</i> , 2019, 19, 90-99.	9.1	12

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19	Interfacial influence on electrical injection and transport characterization of CoFeB MgO GaAs-InGaAs quantum wells hetero-structure. <i>Applied Surface Science</i> , 2019, 473, 230-234.	6.1	1
20	Electrical Initialization of Electron and Nuclear Spins in a Single Quantum Dot at Zero Magnetic Field. <i>Nano Letters</i> , 2018, 18, 2381-2386.	9.1	16
21	Relaxation dynamics of magnetization transitions in synthetic antiferromagnet with perpendicular anisotropy. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 135804.	1.8	8
22	Electric-Field Control of Spin-Orbit Torques in WS ₂ /Permalloy Bilayers. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 2843-2849.	8.0	54
23	Atomic-scale understanding of high thermal stability of the Mo/CoFeB/MgO spin injector for spin-injection in remanence. <i>Nanoscale</i> , 2018, 10, 10213-10220.	5.6	16
24	Magnetic Configurations and State Diagram of Nanoring Magnetic Tunnel Junctions. <i>Physical Review Applied</i> , 2018, 10, .	3.8	7
25	Symmetry-state features in a global analysis of the temperature-dependent spin transport in Fe/MgO/Fe junctions. <i>Physical Review B</i> , 2018, 98, .	3.2	3
26	Angular Dependence of the Spin Photocurrent in a Spin Light Emitting Diode. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 7573-7577.	0.9	1
27	Co - Fe - B/MgO/Ge Spin Photodiode Operating at Telecommunication Wavelength with Zero Applied Magnetic Field. <i>Physical Review Applied</i> , 2018, 10, .	3.8	5
28	Quenching of Spin Polarization Switching in Organic Multiferroic Tunnel Junctions by Ferroelectric Ailing-Channel in Organic Barrier. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30614-30622.	8.0	14
29	Tunneling anisotropic magnetoresistance in fully epitaxial magnetic tunnel junctions with different barriers. <i>Applied Physics Letters</i> , 2018, 112, 242404.	3.3	2
30	Magnetization switching diagram of a perpendicular synthetic ferrimagnet CoFeB/Ta/CoFeB bilayer. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 433, 91-97.	2.3	28
31	Perpendicularly magnetized CoFeB multilayers with tunable interlayer exchange for synthetic ferrimagnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 432, 260-265.	2.3	9
32	Electrical spin injection and detection in molybdenum disulfide multilayer channel. <i>Nature Communications</i> , 2017, 8, 14947.	12.8	63
33	Remote microwave monitoring of magnetization switching in CoFeB/Ta/CoFeB spin logic device. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	8
34	Electrical transport properties of black phosphorus based field-effect transistor with Au/Co/MgO tunneling contacts. <i>Journal of Applied Physics</i> , 2017, 122, 164301.	2.5	7
35	Metalliclike behavior of the exchange coupling in (001) Fe/MgO/Fe junctions. <i>Physical Review B</i> , 2017, 96, .	3.2	6
36	Magnetic aftereffects in CoFeB/Ta/CoFeB spin valves of large area. <i>Physical Review B</i> , 2017, 96, .	3.2	7

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37	Ferromagnetic resonance of CoFeB/Ta/CoFeB spin valves versus CoFeB film. <i>Thin Solid Films</i> , 2017, 640, 8-13.	1.8	5
38	Bias Dependence of the Electrical Spin Injection into GaAs from $\text{Co}_{\text{mml:mi}} \text{Fe}_{\text{mml:mi}} \text{MgO}_{\text{mml:mi}}$ Injectors with Different MgO Growth Processes. <i>Physical Review Applied</i> , 2017, 8, .	1.8	5
39	Inversion of the domain wall propagation in synthetic ferrimagnets. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	9
40	MEMS-based fabrication of high-performance inductors with back hollow structure and ferromagnetic film. <i>Microelectronic Engineering</i> , 2017, 168, 5-9.	2.4	5
41	Ferromagnetic resonance in monocrystalline spin valves CoFeB/Ta/CoFeB and CoFeB films with perpendicular magnetic anisotropy. <i>Physics of the Solid State</i> , 2017, 59, 1553-1557.	0.6	1
42	Angular Dependence of the Spin Photocurrent in a $\text{Co}_{\text{mml:mi}} \text{Fe}_{\text{mml:mi}} \text{MgO}_{\text{mml:mi}} \text{GaAs}_{\text{mml:mi}}$ Quantum-Well Structure. <i>Physical Review Applied</i> , 2017, 8, .	1.8	5
43	Thickness and angular dependence of the magnetocurrent of hot electrons in a magnetic tunnel transistor with crossed anisotropies. <i>Physical Review B</i> , 2017, 96, .	3.2	5
44	Very efficient electrical spin injection (/detection) into quantum dots at zero magnetic field., 2017, .	0	0
45	Electrical spin injection into GaAs based light emitting diodes using perpendicular magnetic tunnel junction-type spin injector. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	30
46	Ferroelectric Control of Organic/Ferromagnetic Spinterface. <i>Advanced Materials</i> , 2016, 28, 10204-10210.	21.0	55
47	Magnetic tunnel transistor with a perpendicular Co/Ni multilayer sputtered on a Si/Cu(100) Schottky diode. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 355003.	2.8	5
48	Long-Range Phase Coherence in Double-Barrier Magnetic Tunnel Junctions with a Large Thick Metallic Quantum Well. <i>Physical Review Letters</i> , 2015, 115, 157204.	7.8	37
49	Enhanced magnetoresistance by monoatomic roughness in epitaxial Fe/MgO/Fe tunnel junctions. <i>Physical Review B</i> , 2015, 91, .	3.2	13
50	Electrical spin injection into InGaAs/GaAs quantum wells: A comparison between MgO tunnel barriers grown by sputtering and molecular beam epitaxy methods. <i>Applied Physics Letters</i> , 2014, 105, 012404.	3.3	24
51	Spin dependent transport properties of Mn-Ga/MgO/Mn-Ga magnetic tunnel junctions with metal(Mg) Tj ETQq1 1 0.784314gBT /Over	3.3	5
52	Electrical control of interfacial trapping for magnetic tunnel transistor on silicon. <i>Applied Physics Letters</i> , 2014, 104, 042408.	3.3	5
53	Large and robust electrical spin injection into GaAs at zero magnetic field using an ultrathin CoFeB/MgO injector. <i>Physical Review B</i> , 2014, 90, .	3.2	56
54	Interfacial trapping for hot electron injection in silicon. <i>Applied Physics Letters</i> , 2013, 103, 022407.	3.3	8

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55	Structural defects analysis versus spin polarized tunneling in Co ₂ FeAl/MgO/CoFe magnetic tunnel junctions with thick MgO barriers. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 347, 79-85.	2.3	10
56	Spin-orbit coupling effect by minority interface resonance states in single-crystal magnetic tunnel junctions. <i>Physical Review B</i> , 2012, 86, .	3.2	20
57	Robust optical emission polarization in MoS ₂ x _{mml="http://www.w3.org/1998/Math/MathML"} display="inline"> \times mml:msub> _{mml:mrow} _{/>} _{mml:mn>2} _{</mml:mn>} _{</mml:msub>} _{</mml:math>} monolayers through selective valley excitation. <i>Physical Review B</i> , 2012, 86, .	3.2	385
58	Fe/MgO/Fe (100) textured tunnel junctions exhibiting spin polarization features of single crystal junctions. <i>Applied Physics Letters</i> , 2012, 100, 072408.	3.3	4
59	Spin-Polarized Transient Electron Trapping in Phosphorus-Doped Silicon. <i>Physical Review Letters</i> , 2011, 106, 217202.	7.8	20
60	Reverse Schottky-asymmetry spin current detectors. <i>Applied Physics Letters</i> , 2010, 97, 162501.	3.3	15
61	Depth analysis of boron diffusion in MgO/CoFeB bilayer by x-ray photoelectron spectroscopy. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	26
62	High speed pulsed electrical spin injection in spin-light emitting diode. <i>Applied Physics Letters</i> , 2009, 94, 141109.	3.3	33
63	Spin-Polarized Inelastic Tunneling through Insulating Barriers. <i>Physical Review Letters</i> , 2009, 102, 176801.	7.8	50
64	MgO thickness dependence of spin injection efficiency in spin-light emitting diodes. <i>Applied Physics Letters</i> , 2008, 93, 152102.	3.3	34
65	A magnetometry study of Co oxidation in Co/MgO bilayers grown by sputtering. <i>Journal of Applied Physics</i> , 2008, 104, .	2.5	5
66	Effects of a thin Mg layer on the structural and magnetoresistance properties of CoFeB MgO CoFeB magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2007, 91, 222504.	3.3	47
67	Measurement of the valence-band offset at the epitaxial MgO-GaAs(001) heterojunction by x-ray photoelectron spectroscopy. <i>Applied Physics Letters</i> , 2006, 88, 042108.	3.3	45
68	Band structure of the epitaxial Fe MgO GaAs(001) tunnel junction studied by x-ray and ultraviolet photoelectron spectroscopies. <i>Applied Physics Letters</i> , 2006, 89, 152106.	3.3	23
69	Design of the low-temperature AlN interlayer for GaN grown on Si (111) substrate. <i>Journal of Crystal Growth</i> , 2005, 276, 381-388.	1.5	40
70	Crack-free GaN/Si(111) epitaxial layers grown with InAlGaN alloy as compliant interlayer by metalorganic chemical vapor deposition. <i>Journal of Crystal Growth</i> , 2005, 279, 335-340.	1.5	6
71	Growth of crack-free GaN films on Si(111) substrate by using Al-rich AlN buffer layer. <i>Journal of Applied Physics</i> , 2004, 96, 4982-4988.	2.5	10
72	Influence of the growth temperature of the high-temperature AlN buffer on the properties of GaN grown on Si(111) substrate. <i>Journal of Crystal Growth</i> , 2004, 263, 4-11.	1.5	37

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73	Crack-free InAlGaN quaternary alloy films grown on Si(111) substrate by metalorganic chemical vapor deposition. <i>Journal of Crystal Growth</i> , 2004, 273, 79-85.	1.5	3
74	Depth distribution of the strain in the GaN layer with low-temperature AlN interlayer on Si(111) substrate studied by Rutherford backscattering/channeling. <i>Applied Physics Letters</i> , 2004, 85, 5562-5564.	3.3	8
75	Title is missing!. <i>Journal of Materials Science Letters</i> , 2003, 22, 1581-1583.	0.5	5
76	Microstructure of GaN films grown on Si(111) substrates by metalorganic chemical vapor deposition. <i>Journal of Crystal Growth</i> , 2003, 256, 416-423.	1.5	15
77	The growth morphologies of GaN layer on Si(111) substrate. <i>Journal of Crystal Growth</i> , 2003, 247, 91-98.	1.5	23
78	Polarity determination for GaN thin films by electron energy-loss spectroscopy. <i>Applied Physics Letters</i> , 2002, 81, 1990-1992.	3.3	16
79	A new method to fabricate InGaN quantum dots by metalorganic chemical vapor deposition. <i>Journal of Crystal Growth</i> , 2002, 235, 188-194.	1.5	34
80	Investigation of GaN layer grown on Si(111) substrate using an ultrathin AlN wetting layer. <i>Journal of Crystal Growth</i> , 2002, 236, 77-84.	1.5	21
81	The structure and current-voltage characteristics of multi-sheet InGaN quantum dots grown by a new multi-step method. <i>Journal of Crystal Growth</i> , 2002, 243, 19-24.	1.5	4
82	High-Temperature Stability Amorphous Ternary AlBN Dielectric Films on N ⁺⁺ /GaN. <i>Advanced Engineering Materials</i> , 0, , 2200191.	3.5	1