

# Guangheng Wu

## List of Publications by Year in descending order

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50  
papers

1,863  
citations

279798

23  
h-index

254184

43  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1986  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Centrosymmetric Hexagonal Magnet with Superstable Biskyrmion Magnetic Nanodomains in a Wide Temperature Range of 100–340 K. <i>Advanced Materials</i> , 2016, 28, 6887-6893.	21.0	209
2	Observation of Various and Spontaneous Magnetic Skyrmionic Bubbles at Room Temperature in a Frustrated Kagome Magnet with Uniaxial Magnetic Anisotropy. <i>Advanced Materials</i> , 2017, 29, 1701144.	21.0	189
3	Electric-field-driven non-volatile multi-state switching of individual skyrmions in a multiferroic heterostructure. <i>Nature Communications</i> , 2020, 11, 3577.	12.8	117
4	Weak Antilocalization Effect and Noncentrosymmetric Superconductivity in a Topologically Nontrivial Semimetal LuPdBi. <i>Scientific Reports</i> , 2014, 4, 5709.	3.3	112
5	Combined giant inverse and normal magnetocaloric effect for room-temperature magnetic cooling. <i>Physical Review B</i> , 2007, 76, .	3.2	111
6	Superhigh strains by variant reorientation in the nonmodulated ferromagnetic NiMnGa alloys. <i>Applied Physics Letters</i> , 2002, 81, 2818-2820.	3.3	83
7	Magnetostructural Transformation and Magnetoresponse Properties of $\text{MnNiGe}_{1-x}\text{Sn}_x$ Alloys. <i>IEEE Transactions on Magnetics</i> , 2011, 47, 4041-4043.	2.1	68
8	Large topological Hall effect in a geometrically frustrated kagome magnet Fe <sub>3</sub> Sn <sub>2</sub> . <i>Applied Physics Letters</i> , 2019, 114, .	3.3	68
9	Real-Space Observation of Nonvolatile Zero-Field Biskyrmion Lattice Generation in MnNiGa Magnet. <i>Nano Letters</i> , 2017, 17, 7075-7079.	9.1	64
10	Creation of Single Chain of Nanoscale Skyrmion Bubbles with Record-High Temperature Stability in a Geometrically Confined Nanostripe. <i>Nano Letters</i> , 2018, 18, 1274-1279.	9.1	62
11	High electron mobility and large magnetoresistance in the half-Heusler semimetal LuPtBi. <i>Physical Review B</i> , 2015, 92, .	3.2	51
12	Large low-field positive magnetoresistance in nonmagnetic half-Heusler ScPtBi single crystal. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	50
13	Current-Induced Helicity Reversal of a Single Skyrmionic Bubble Chain in a Nanostructured Frustrated Magnet. <i>Advanced Materials</i> , 2020, 32, e1904815.	21.0	47
14	Local Disorder-Induced Elevation of Intrinsic Anomalous Hall Conductance in an Electron-Doped Magnetic Weyl Semimetal. <i>Physical Review Letters</i> , 2020, 125, 086602.	7.8	45
15	33% Giant Anomalous Hall Current Driven by Both Intrinsic and Extrinsic Contributions in Magnetic Weyl Semimetal $\text{Co}_3\text{Sn}_2\text{S}_2$ . <i>Advanced Functional Materials</i> , 2020, 30, 2000830.	14.9	44
16	Manipulating the Topology of Nanoscale Skyrmion Bubbles by Spatially Geometric Confinement. <i>ACS Nano</i> , 2019, 13, 922-929.	14.6	43
17	NMR Evidence for the Topologically Nontrivial Nature in a Family of Half-Heusler Compounds. <i>Scientific Reports</i> , 2016, 6, 23172.	3.3	41
18	Metamagnetic phase transformation in Mn <sub>50</sub> Ni <sub>37</sub> In <sub>10</sub> Co <sub>3</sub> polycrystalline alloy. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	40

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19	Ferromagnetism in the Mn-based Heusler alloy Mn <sub>2</sub> NiSb. Journal of Applied Physics, 2009, 105, .	2.5	31
20	On the anisotropies of magnetization and electronic transport of magnetic Weyl semimetal Co <sub>3</sub> Sn <sub>2</sub> S <sub>2</sub> . Applied Physics Letters, 2019, 115, 212403.	3.3	31
21	Generation of high-density biskyrmions by electric current. Npj Quantum Materials, 2017, 2, .	5.2	30
22	Large and Anisotropic Linear Magnetoresistance in Single Crystals of Black Phosphorus Arising From Mobility Fluctuations. Scientific Reports, 2016, 6, 23807.	3.3	26
23	Tuning antiferromagnetic exchange interaction for spontaneous exchange bias in MnNiSnSi system. APL Materials, 2017, 5, .	5.1	25
24	Large anisotropic topological Hall effect in a hexagonal non-collinear magnet Fe <sub>5</sub> Sn <sub>3</sub> . Applied Physics Letters, 2020, 116, .	3.3	23
25	Large topological Hall effect in nonchiral hexagonal MnNiGa films. Applied Physics Letters, 2017, 110, .	3.3	21
26	Large anomalous Hall effect in a hexagonal ferromagnetic $F_{e5}S_{n3}$	3.2	18
27	Structure and magnetic properties of highly ordered Co <sub>2</sub> NiGa alloys. Journal of Applied Physics, 2007, 101, 09N503.	2.5	17
28	Robust anomalous Hall effect and temperature-driven Lifshitz transition in Weyl semimetal Mn <sub>3</sub> Ge. Nanoscale, 2021, 13, 2601-2608.	5.6	17
29	NMR investigation of atomic and electronic structures of half-Heusler topologically nontrivial semimetals. Physica Status Solidi (B): Basic Research, 2015, 252, 357-360.	1.5	16
30	Tunable positive magnetoresistance and crossover from weak antilocalization to weak localization transition in half-Heusler compounds RPtBi (R=La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Yb, Lu, lanthanide). Applied Physics Letters, 2020, 116, 101902.	3.3	16
31	The structural and magnetic properties of Mn <sub>2</sub> xFe <sub>x</sub> NiGa Heusler alloys. Journal of Applied Physics, 2010, 107, .	2.5	14
32	Atomic-Level Characterization of Dynamics of Copper Ions in CuAgSe. Journal of Physical Chemistry C, 2016, 120, 3229-3234.	3.1	13
33	Manipulating Spin Chirality of Magnetic Skyrmion Bubbles by In-Plane Reversed Magnetic Fields in $Mn_3Ge$	3.8	13
34	Anomalous Hall effect in quaternary Heusler-type Ni <sub>50</sub> Mn <sub>17</sub> Fe <sub>8</sub> Ga <sub>25</sub> melt-spun ribbons. Applied Physics Letters, 2009, 95, .	3.3	12
35	Crystal-orientation dependence of magnetic domain structures in the skyrmion-hosting magnets MnNiGa. APL Materials, 2018, 6, 076101.	5.1	12
36	Chiral-anomaly induced large negative magnetoresistance and nontrivial $\pi$ -Berry phase in half-Heusler compounds RPtBi (R=Tb, Ho, and Er). Applied Physics Letters, 2020, 116, .	3.3	12

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37	Magnetic properties in Laves phase $Ce_xDy_{1-x}Fe_2$ intermetallics. <i>Journal of Applied Physics</i> , 1997, 82, 4424-4427.	2.5	10
38	A new Heusler compound $Cu_2FeAl$ : electronic structure, magnetism and transport properties. <i>Physica Status Solidi A</i> , 2004, 201, 1570-1577.	1.7	10
39	Synthesis and magnetic properties of Al doped $Zn_{0.995}Mn_{0.005}O$ powders. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	9
40	Coherent spin rotation-induced zero thermal expansion in $MnCoSi$ -based spiral magnets. <i>NPG Asia Materials</i> , 2021, 13, .	7.9	9
41	Half-metallic ferromagnetism in hypothetical wurtzite $MBi$ ( $M=V, Cr, Mn$ ). <i>Journal of Applied Physics</i> , 2005, 97, 10C306.	2.5	8
42	Thermally induced generation and annihilation of magnetic chiral skyrmion bubbles and achiral bubbles in $MnNiGa$ magnets. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	8
43	Magnetic-field-induced transformation and strain in polycrystalline $FeMnGa$ ferromagnetic shape memory alloys with high cold-workability. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	4
44	First-principles investigation of possible martensitic transformation and magnetic properties of Heusler-type $Pt_{2-x}Mn_{1+x}In$ alloys. <i>Functional Materials Letters</i> , 2015, 08, 1550064.	1.2	3
45	A method of measuring dynamic strain under electromagnetic forming conditions. <i>Review of Scientific Instruments</i> , 2016, 87, 043902.	1.3	3
46	Planar topological Hall effect in a hexagonal ferromagnetic $Fe_5Sn_3$ single crystal. <i>Applied Physics Letters</i> , 2021, 118, 182407.	3.3	3
47	Large spontaneous shape memory and magnetic-field induced strain in $Ni_{51}Mn_{25.5}Ga_{23.5}$ single crystal. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006, 203, 2532-2537.	1.8	2
48	Structure-controlled Synthesis and Magnetism of $CoCu$ Nanowires. <i>Chemistry Letters</i> , 2013, 42, 1108-1109.	1.3	2
49	Electric field gradients in $2H-NbSe_2$ : $^{93}Nb$ NMR measurements and first-principles calculations. <i>Journal of Physics Condensed Matter</i> , 2020, 33, 045404.	1.8	1
50	Alternative Current Magnetic Permeability of $Fe_{81}Ga_{19}$ Alloy with Bias Magnetic Fields. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1295, 71.	0.1	0