

# 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	Planar topological Hall effect in a hexagonal ferromagnetic Fe <sub>5</sub> Sn <sub>3</sub> single crystal. Applied Physics Letters, 2021, 118, 182407.	3.3	3
2	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
3	Magnetic-field-induced transformation and strain in polycrystalline FeMnGa ferromagnetic shape memory alloys with high cold-workability. Applied Physics Letters, 2021, 119, .	3.3	4
4	Coherent spin rotation-induced zero thermal expansion in MnCoSi-based spiral magnets. NPG Asia Materials, 2021, 13, .	7.9	9
5	Current-Induced Helicity Reversal of a Single Skyrmionic Bubble Chain in a Nanostructured Frustrated Magnet. Advanced Materials, 2020, 32, e1904815.	21.0	47
6	Electric-field-driven non-volatile multi-state switching of individual skyrmions in a multiferroic heterostructure. Nature Communications, 2020, 11, 3577.	12.8	117
7	Local Disorder-Induced Elevation of Intrinsic Anomalous Hall Conductance in an Electron-Doped Magnetic Weyl Semimetal. Physical Review Letters, 2020, 125, 086602.	7.8	45
8	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
9	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
10	Thermally induced generation and annihilation of magnetic chiral skyrmion bubbles and achiral bubbles in Mn <sub>2</sub> Ni <sub>2</sub> Ga magnets. Applied Physics Letters, 2020, 116, .	3.3	8
11	33% Giant Anomalous Hall Current Driven by Both Intrinsic and Extrinsic Contributions in Magnetic Weyl Semimetal Co <sub>3</sub> Sn <sub>2</sub> S <sub>2</sub> . Advanced Functional Materials, 2020, 30, 2000830.	14.9	44
12	Large anomalous Hall effect in a hexagonal ferromagnetic $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block">\mathbf{F} \times \mathbf{e} \rangle$ $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block">\mathbf{e} \cdot \mathbf{S} \rangle$ single	3.2	18
13	Tunable positive magnetoresistance and crossover from weak antilocalization to weak localization transition in half-Heusler compounds RPtBi (R=lanthanide). Applied Physics Letters, 2020, 116, 101902.	3.3	16
14	Electric field gradients in 2H-NbSe <sub>2</sub> : <sup>93</sup> Nb NMR measurements and first-principles calculations. Journal of Physics Condensed Matter, 2020, 33, 045404.	1.8	1
15	Large topological Hall effect in a geometrically frustrated kagome magnet Fe <sub>3</sub> Sn <sub>2</sub> . Applied Physics Letters, 2019, 114, .	3.3	68
16	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
17	Manipulating Spin Chirality of Magnetic Skyrmion Bubbles by In-Plane Reversed Magnetic Fields in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block">\mathbf{M}_1 \times \mathbf{M}_2 \rangle$ $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block">\mathbf{M}_1 \cdot \mathbf{M}_2 \rangle$	3.8	13
18	Physical Review Applied, 2019, 12, . Manipulating the Topology of Nanoscale Skyrmion Bubbles by Spatially Geometric Confinement. ACS Nano, 2019, 13, 922-929.	14.6	43

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19	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
20	Crystal-orientation dependence of magnetic domain structures in the skyrmion-hosting magnets MnNiGa. <i>APL Materials</i> , 2018, 6, 076101.	5.1	12
21	Large topological Hall effect in nonchiral hexagonal MnNiGa films. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	21
22	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
23	Real-Space Observation of Nonvolatile Zero-Field Biskyrmion Lattice Generation in MnNiGa Magnet. <i>Nano Letters</i> , 2017, 17, 7075-7079.	9.1	64
24	Generation of high-density biskyrmions by electric current. <i>Npj Quantum Materials</i> , 2017, 2, .	5.2	30
25	Tuning antiferromagnetic exchange interaction for spontaneous exchange bias in MnNiSnSi system. <i>APL Materials</i> , 2017, 5, .	5.1	25
26	Large and Anisotropic Linear Magnetoresistance in Single Crystals of Black Phosphorus Arising From Mobility Fluctuations. <i>Scientific Reports</i> , 2016, 6, 23807.	3.3	26
27	NMR Evidence for the Topologically Nontrivial Nature in a Family of Half-Heusler Compounds. <i>Scientific Reports</i> , 2016, 6, 23172.	3.3	41
28	A method of measuring dynamic strain under electromagnetic forming conditions. <i>Review of Scientific Instruments</i> , 2016, 87, 043902.	1.3	3
29	A Centrosymmetric Hexagonal Magnet with Superstable Biskyrmion Magnetic Nanodomains in a Wide Temperature Range of 100â€“340 K. <i>Advanced Materials</i> , 2016, 28, 6887-6893.	21.0	209
30	Atomic-Level Characterization of Dynamics of Copper Ions in CuAgSe. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3229-3234.	3.1	13
31	High electron mobility and large magnetoresistance in the half-Heusler semimetal LuPtBi. <i>Physical Review B</i> , 2015, 92, .	3.2	51
32	Large low-field positive magnetoresistance in nonmagnetic half-Heusler ScPtBi single crystal. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	50
33	First-principles investigation of possible martensitic transformation and magnetic properties of Heusler-type Pt <sub>2-x</sub> Mn <sub>1+x</sub> In alloys. <i>Functional Materials Letters</i> , 2015, 08, 1550064.	1.2	3
34	NMR investigation of atomic and electronic structures of half-Heusler topologically nontrivial semimetals. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 357-360.	1.5	16
35	Weak Antilocalization Effect and Noncentrosymmetric Superconductivity in a Topologically Nontrivial Semimetal LuPdBi. <i>Scientific Reports</i> , 2014, 4, 5709.	3.3	112
36	Structure-controlled Synthesis and Magnetism of CoCu Nanowires. <i>Chemistry Letters</i> , 2013, 42, 1108-1109.	1.3	2

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37	Alternative Current Magnetic Permeability of Fe <sub>81</sub> Ga <sub>19</sub> Alloy with Bias Magnetic Fields. Materials Research Society Symposia Proceedings, 2011, 1295, 71.	0.1	0
38	Magnetostructural Transformation and Magnetoresponse Properties of $\text{MnNiGe}_{1-x}\text{Sn}_x$ Alloys. IEEE Transactions on Magnetics, 2011, 47, 4041-4043.	2.1	68
39	Metamagnetic phase transformation in Mn <sub>50</sub> Ni <sub>37</sub> In <sub>10</sub> Co <sub>3</sub> polycrystalline alloy. Applied Physics Letters, 2011, 98, .	3.3	40
40	The structural and magnetic properties of Mn <sub>2</sub> <sup>x</sup> FexNiGa Heusler alloys. Journal of Applied Physics, 2010, 107, .	2.5	14
41	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
42	Synthesis and magnetic properties of Al doped Zn <sub>0.995</sub> Mn <sub>0.005</sub> O powers. Applied Physics Letters, 2009, 94, .	3.3	9
43	Ferromagnetism in the Mn-based Heusler alloy Mn <sub>2</sub> NiSb. Journal of Applied Physics, 2009, 105, .	2.5	31
44	Structure and magnetic properties of highly ordered Co <sub>2</sub> NiGa alloys. Journal of Applied Physics, 2007, 101, 09N503.	2.5	17
45	Combined giant inverse and normal magnetocaloric effect for room-temperature magnetic cooling. Physical Review B, 2007, 76, .	3.2	111
46	Large spontaneous shape memory and magnetic-field induced strain in Ni <sub>51</sub> Mn <sub>25.5</sub> Ga <sub>23.5</sub> single crystal. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 2532-2537.	1.8	2
47	Half-metallic ferromagnetism in hypothetical wurtzite MBi (M=V, Cr, Mn). Journal of Applied Physics, 2005, 97, 10C306.	2.5	8
48	A new Heusler compound Cu <sub>2</sub> FeAl: electronic structure, magnetism and transport properties. Physica Status Solidi A, 2004, 201, 1570-1577.	1.7	10
49	Superhigh strains by variant reorientation in the nonmodulated ferromagnetic NiMnGa alloys. Applied Physics Letters, 2002, 81, 2818-2820.	3.3	83
50	Magnetic properties in Laves phase CexDy <sub>1-x</sub> Fe <sub>2</sub> intermetallics. Journal of Applied Physics, 1997, 82, 4424-4427.	2.5	10