

# M-G Han

## List of Publications by Year in descending order

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63  
papers

1,872  
citations

331670

21  
h-index

265206

42  
g-index

64  
all docs

64  
docs citations

64  
times ranked

3752  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polaronic Conductivity in Cr <sub>2</sub> Ge <sub>2</sub> Te <sub>6</sub> Single Crystals. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	7
2	Electrostatic Asymmetry of Wurtzite Nanocrystals and Resulting Photocatalytic Properties. <i>Journal of Physical Chemistry C</i> , 2022, 126, 4751-4761.	3.1	0
3	Stroboscopic ultrafast imaging using RF strip-lines in a commercial transmission electron microscope. <i>Ultramicroscopy</i> , 2022, 235, 113497.	1.9	14
4	Coupling between magnetic order and charge transport in a two-dimensional magnetic semiconductor. <i>Nature Materials</i> , 2022, 21, 754-760.	27.5	60
5	Anomalous Hall effect and perpendicular magnetic anisotropy in ultrathin ferrimagnetic NiCo <sub>2</sub> O <sub>4</sub> films. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	11
6	Site-specific electronic and magnetic excitations of the skyrmion material Cu <sub>2</sub> OSeO <sub>3</sub> . <i>Communications Physics</i> , 2022, 5, .	5.3	4
7	<i>Operando</i> characterization of conductive filaments during resistive switching in Mott VO <sub>2</sub> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	15
8	Strain-Induced Atomic-Scale Building Blocks for Ferromagnetism in Epitaxial LaCoO <sub>3</sub> . <i>Nano Letters</i> , 2021, 21, 4006-4012.	9.1	15
9	Electromechanical Manipulation of Topological Defects to Yield Giant Piezoelectric Response in Epitaxial Lead Zirconate Titanate Bilayers on Silicon. <i>Advanced Electronic Materials</i> , 2021, 7, 2100195.	5.1	2
10	Josephson detection of time-reversal symmetry broken superconductivity in SnTe nanowires. <i>Npj Quantum Materials</i> , 2021, 6, .	5.2	16
11	In situ cryo-electron microscopy of two-dimensional van der Waals magnets. <i>Microscopy and Microanalysis</i> , 2021, 27, 326-328.	0.4	0
12	Antiphase-Boundary-Engineered Domain Switching in a (110)-Oriented BiFeO <sub>3</sub> Film. <i>ACS Applied Electronic Materials</i> , 2021, 3, 3226-3233.	4.3	4
13	Spacer-Layer-Tunable Magnetism and High-Field Topological Hall Effect in Topological Insulator Heterostructures. <i>Nano Letters</i> , 2021, 21, 5914-5919.	9.1	3
14	Hybrid Symmetry Epitaxy of the Superconducting Fe(Te,Se) Film on a Topological Insulator. <i>Nano Letters</i> , 2021, 21, 6518-6524.	9.1	9
15	Topological spin/structure couplings in layered chiral magnet Cr <sub>1/3</sub> TaS <sub>2</sub> : The discovery of spiral magnetic superstructure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	21
16	Single-crystalline epitaxial TiO film: A metal and superconductor, similar to Ti metal. <i>Science Advances</i> , 2021, 7, .	10.3	14
17	Nanoscale-correlated octahedral rotations in BaZrO <sub>3</sub> . <i>Physical Review B</i> , 2021, 104, .		
18	Scalable Synthesis of the Transparent Conductive Oxide SrVO <sub>3</sub> . <i>Advanced Electronic Materials</i> , 2020, 6, 1900584.	5.1	14

#	ARTICLE	IF	CITATIONS
19	Room-Temperature Skyrmion Thermopower in $\text{Fe}_3\text{Sn}_2$ . <i>Advanced Quantum Technologies</i> , 2020, 3, 2000058.	3.9	12
20	Homochiral Skyrmionic Bubbles in Exfoliated 2D Van Der Waals $\text{Cr}_2\text{Ge}_2\text{Te}_6$ . <i>Microscopy and Microanalysis</i> , 2020, 26, 2138-2140.	0.4	0
21	Controlled Nucleation and Stabilization of Ferroelectric Domain Wall Patterns in Epitaxial (110) Bismuth Ferrite Heterostructures. <i>Advanced Functional Materials</i> , 2020, 30, 2003571.	14.9	8
22	Gate-Tunable Semiconductor Heterojunctions from 2D/3D van der Waals Interfaces. <i>Nano Letters</i> , 2020, 20, 2907-2915.	9.1	69
23	Scaling, rotation, and channeling behavior of helical and skyrmion spin textures in thin films of Te-doped $\text{Cu}_2\text{OSeO}_3$ . <i>Science Advances</i> , 2020, 6, eaax2138.	10.3	19
24	Picoscale structural insight into superconductivity of monolayer $\text{FeSe/SrTiO}_3$ . <i>Science Advances</i> , 2020, 6, eaay4517.	10.3	24
25	Quantitative Analysis of Topological, Chiral Spin Textures Stabilized by the Dzyaloshinskii-Moriya Interaction in Co/Pd Multilayers. <i>Microscopy and Microanalysis</i> , 2019, 25, 22-23.	0.4	0
26	Quantum Hall to Insulator Transition in Ultra-Low-Carrier-Density Topological Insulator Films and a Hidden Phase of the Zeroth Landau Level. <i>Advanced Materials</i> , 2019, 31, e1901091.	21.0	19
27	Deterministic Ferroelastic Domain Switching Using Ferroelectric Bilayers. <i>Nano Letters</i> , 2019, 19, 5319-5326.	9.1	15
28	Scaling and channelling behavior of helical and skyrmion spin textures in thin films of Te-doped $\text{Cu}_2\text{OSeO}_3$ . <i>Microscopy and Microanalysis</i> , 2019, 25, 30-31.	0.4	0
29	The in situ Studies on the Anomalous Domain Switching Caused by Trace Amount of Oxygen Vacancies. <i>Microscopy and Microanalysis</i> , 2019, 25, 1888-1889.	0.4	0
30	Topological Magnetic-Spin Textures in Two-Dimensional van der Waals $\text{Cr}_2\text{Ge}_2\text{Te}_6$ . <i>Nano Letters</i> , 2019, 19, 7859-7865.	9.1	116
31	Strong Orbital Polarization in a Cobaltate-Titanate Oxide Heterostructure. <i>Physical Review Letters</i> , 2019, 123, 117201.	7.8	14
32	Revealing the Effects of Trace Oxygen Vacancies on Improper Ferroelectric Manganite with In Situ Biasing. <i>Advanced Electronic Materials</i> , 2019, 5, 1800827.	5.1	8
33	Record High-Proximity-Induced Anomalous Hall Effect in $(\text{Bi}_x\text{Sb}_{1-x})_2\text{Te}_3$ Thin Film Grown on $\text{CrGeTe}_3$ Substrate. <i>Nano Letters</i> , 2019, 19, 4567-4573.	9.1	34
34	Magnetotransport Anomaly in Room-Temperature Ferrimagnetic $\text{NiCo}_2\text{O}_4$ Thin Films. <i>Advanced Materials</i> , 2019, 31, e1805260.	21.0	47
35	Dipole-like electrostatic asymmetry of gold nanorods. <i>Science Advances</i> , 2018, 4, e1700682.	10.3	39
36	Tensile stress effect on epitaxial $\text{BiFeO}_3$ thin film grown on $\text{KTaO}_3$ . <i>Scientific Reports</i> , 2018, 8, 893.	3.3	13



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55	Robust topological surface states of Bi <sub>2</sub> Se <sub>3</sub> thin films on amorphous SiO <sub>2</sub> /Si substrate and a large ambipolar gating effect. Applied Physics Letters, 2014, 104, .	3.3	28
56	Conduction at a Ferroelectric Interface. Physical Review Applied, 2014, 2, .	3.8	41
57	Interface-induced nonswitchable domains in ferroelectric thin films. Nature Communications, 2014, 5, 4693.	12.8	120
58	Unfolding of Vortices into Topological Stripes in a Multiferroic Material. Physical Review Letters, 2014, 112, 247601.	7.8	47
59	Hollandites as a new class of multiferroics. Scientific Reports, 2014, 4, 6203.	3.3	35
60	Ferroelectric Switching Dynamics of Topological Vortex Domains in a Hexagonal Manganite. Advanced Materials, 2013, 25, 2415-2421.	21.0	91
61	Ferroelectric order in individual nanometre-scale crystals. Nature Materials, 2012, 11, 700-709.	27.5	292
62	Origin of 90° domain wall pinning in Pb(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> heteroepitaxial thin films. Applied Physics Letters, 2011, 99, 102902.	3.3	49
63	Direct measurement of electron beam induced currents in p-type silicon. Solid-State Electronics, 2010, 54, 777-780.	1.4	7