

# 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	Ferroelectric order in individual nanometre-scale crystals. <i>Nature Materials</i> , 2012, 11, 700-709.	27.5	292
2	Atomically Thin Femtojoule Memristive Device. <i>Advanced Materials</i> , 2017, 29, 1703232.	21.0	147
3	Interface-induced nonswitchable domains in ferroelectric thin films. <i>Nature Communications</i> , 2014, 5, 4693.	12.8	120
4	Record Surface State Mobility and Quantum Hall Effect in Topological Insulator Thin Films via Interface Engineering. <i>Nano Letters</i> , 2015, 15, 8245-8249.	9.1	119
5	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
6	Ferroelectric Switching Dynamics of Topological Vortex Domains in a Hexagonal Manganite. <i>Advanced Materials</i> , 2013, 25, 2415-2421.	21.0	91
7	Gate-Tunable Semiconductor Heterojunctions from 2D/3D van der Waals Interfaces. <i>Nano Letters</i> , 2020, 20, 2907-2915.	9.1	69
8	Coupling between magnetic order and charge transport in a two-dimensional magnetic semiconductor. <i>Nature Materials</i> , 2022, 21, 754-760.	27.5	60
9	Origin of $90^\circ$ domain wall pinning in $\text{Pb}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_3$ heteroepitaxial thin films. <i>Applied Physics Letters</i> , 2011, 99, 102902.	3.3	49
10	Unfolding of Vortices into Topological Stripes in a Multiferroic Material. <i>Physical Review Letters</i> , 2014, 112, 247601.	7.8	47
11	Magnetotransport Anomaly in Room-Temperature Ferrimagnetic $\text{NiCo}_2\text{O}_4$ Thin Films. <i>Advanced Materials</i> , 2019, 31, e1805260.	21.0	47
12	Solar hydrogen production using epitaxial $\text{SrTiO}_3$ on a GaAs photovoltaic. <i>Energy and Environmental Science</i> , 2017, 10, 377-382.	30.8	46
13	Conduction at a Ferroelectric Interface. <i>Physical Review Applied</i> , 2014, 2, .	3.8	41
14	Dipole-like electrostatic asymmetry of gold nanorods. <i>Science Advances</i> , 2018, 4, e1700682.	10.3	39
15	Interface reconstruction with emerging charge ordering in hexagonal manganite. <i>Science Advances</i> , 2018, 4, eaar4298.	10.3	37
16	Hollandites as a new class of multiferroics. <i>Scientific Reports</i> , 2014, 4, 6203.	3.3	35
17	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
18	Robust topological surface states of $\text{Bi}_2\text{Se}_3$ thin films on amorphous $\text{SiO}_2/\text{Si}$ substrate and a large ambipolar gating effect. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	28

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19	Velocity of domain-wall motion during polarization reversal in ferroelectric thin films: Beyond Merz's Law. <i>Physical Review B</i> , 2015, 91, .	3.2	28
20	Picoscale structural insight into superconductivity of monolayer FeSe/SrTiO <sub>3</sub> . <i>Science Advances</i> , 2020, 6, eaay4517.	10.3	24
21	Optical Asymmetry and Nonlinear Light Scattering from Colloidal Gold Nanorods. <i>ACS Nano</i> , 2017, 11, 5925-5932.	14.6	23
22	Tunable inverse topological heterostructure utilizing xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mo></mml:mo><mml:mrow><mml:mi></mml:mi><mml:msub><mml:mrow><mml:mi></mml:mi><mml:msub><mml:mrow><mml:mi></mml:mi><mml:msub><mml:mrow><mml:mi></mml:mi><mml:msub><mml:mrow><mml:mi></mml:mi></mml:msub></mml:mrow></mml:math>	3.2	21
23	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
24	Topologically Allowed Nonsixfold Vortices in a Sixfold Multiferroic Material: Observation and Classification. <i>Physical Review Letters</i> , 2017, 118, 145501.	7.8	20
25	Disorder-driven topological phase transition in xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi></mml:mi><mml:msub><mml:mi></mml:mi><mml:msub><mml:mi></mml:mi><mml:msub><mml:mi></mml:mi><mml:msub><mml:mi></mml:mi><mml:msub><mml:mi></mml:mi></mml:msub></mml:mrow></mml:math>	3.2	19
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	Scaling, rotation, and channeling behavior of helical and skyrmion spin textures in thin films of Te-doped Cu <sub>2</sub> OSeO <sub>3</sub> . <i>Science Advances</i> , 2020, 6, eaax2138.	10.3	19
28	Josephson detection of time-reversal symmetry broken superconductivity in SnTe nanowires. <i>Npj Quantum Materials</i> , 2021, 6, .	5.2	16
29	Deterministic Ferroelastic Domain Switching Using Ferroelectric Bilayers. <i>Nano Letters</i> , 2019, 19, 5319-5326.	9.1	15
30	<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
31	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
32	Electron-beam-induced-current and active secondary-electron voltage-contrast with aberration-corrected electron probes. <i>Ultramicroscopy</i> , 2017, 176, 80-85.	1.9	14
33	Strong Orbital Polarization in a Cobaltate-Titanate Oxide Heterostructure. <i>Physical Review Letters</i> , 2019, 123, 117201.	7.8	14
34	Scalable Synthesis of the Transparent Conductive Oxide SrVO <sub>3</sub> . <i>Advanced Electronic Materials</i> , 2020, 6, 1900584.	5.1	14
35	Single-crystalline epitaxial TiO film: A metal and superconductor, similar to Ti metal. <i>Science Advances</i> , 2021, 7, .	10.3	14
36	Stroboscopic ultrafast imaging using RF strip-lines in a commercial transmission electron microscope. <i>Ultramicroscopy</i> , 2022, 235, 113497.	1.9	14

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37	Tensile stress effect on epitaxial BiFeO <sub>3</sub> thin film grown on KTaO <sub>3</sub> . Scientific Reports, 2018, 8, 893.	3.3	13
38	Room-temperature Skyrmion Thermopower in Fe <sub>3</sub> Sn <sub>2</sub> . Advanced Quantum Technologies, 2020, 3, 2000058.	3.9	12
39	Anomalous Hall effect and perpendicular magnetic anisotropy in ultrathin ferrimagnetic NiCo <sub>2</sub> O <sub>4</sub> films. Applied Physics Letters, 2022, 120, .	3.3	11
40	Coupling of bias-induced crystallographic shear planes with charged domain walls in ferroelectric oxide thin films. Physical Review B, 2016, 94, .	3.2	9
41	A Generalizable Multigram Synthesis and Mechanistic Investigation of YMnO <sub>3</sub> Nanoplates. Industrial & Engineering Chemistry Research, 2017, 56, 5573-5585.	3.7	9
42	Hybrid Symmetry Epitaxy of the Superconducting Fe(Te,Se) Film on a Topological Insulator. Nano Letters, 2021, 21, 6518-6524.	9.1	9
43	Revealing the Effects of Trace Oxygen Vacancies on Improper Ferroelectric Manganite with In Situ Biasing. Advanced Electronic Materials, 2019, 5, 1800827.	5.1	8
44	Controlled Nucleation and Stabilization of Ferroelectric Domain Wall Patterns in Epitaxial (110) Bismuth Ferrite Heterostructures. Advanced Functional Materials, 2020, 30, 2003571.	14.9	8
45	Direct measurement of electron beam induced currents in p-type silicon. Solid-State Electronics, 2010, 54, 777-780.	1.4	7
46	Electric-field-induced strain effects on the magnetization of a $P_{\text{r}} < 0.67 > S_{\text{r}}$	3.2	7
47	Polaronic Conductivity in Cr <sub>2</sub> Ge <sub>2</sub> Te <sub>6</sub> Single Crystals. Advanced Functional Materials, 2022, 32, .	14.9	7
48	Nanoscale-correlated octahedral rotations in $\text{BaZrO}_3$ . Physical Review B, 2021, 104, .	3.2	7
49	Publisher's note. Ultramicroscopy, 2017, 177, 14-19.	1.9	5
50	Antiphase-Boundary-Engineered Domain Switching in a (110)-Oriented BiFeO <sub>3</sub> Film. ACS Applied Electronic Materials, 2021, 3, 3226-3233.	4.3	4
51	Linearly aligned single-chiral vortices in hexagonal manganites by <i>in situ</i> electric arc heating. Physical Review Materials, 2018, 2, .	2.4	4
52	Site-specific electronic and magnetic excitations of the skyrmion material Cu <sub>2</sub> OSeO <sub>3</sub> . Communications Physics, 2022, 5, .	5.3	4
53	Spacer-Layer-Tunable Magnetism and High-Field Topological Hall Effect in Topological Insulator Heterostructures. Nano Letters, 2021, 21, 5914-5919.	9.1	3
54	Electromechanical Manipulation of Topological Defects to Yield Giant Piezoelectric Response in Epitaxial Lead Zirconate Titanate Bilayers on Silicon. Advanced Electronic Materials, 2021, 7, 2100195.	5.1	2

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55	Interfacial Coupling and Polarization of Perovskite ABO <sub>3</sub> Heterostructures. <i>Microscopy and Microanalysis</i> , 2017, 23, 1586-1587.	0.4	1
56	In Situ Electron Holography of Ferroelectric Thin Films. <i>Microscopy and Microanalysis</i> , 2015, 21, 1401-1402.	0.4	0
57	Electrostatic Potential Mapping by Secondary-electron Voltage-contrast and Electron-beam-induced-current in TEM. <i>Microscopy and Microanalysis</i> , 2017, 23, 1424-1425.	0.4	0
58	Quantitative Analysis of Topological, Chiral Spin Textures Stabilized by the Dzyaloshinskiiâ€Moriya Interaction in Co/Pd Multilayers. <i>Microscopy and Microanalysis</i> , 2019, 25, 22-23.	0.4	0
59	Scaling and channelling behavior of helical and skyrmion spin textures in thin films of Te-doped Cu <sub>2</sub> OSeO <sub>3</sub> . <i>Microscopy and Microanalysis</i> , 2019, 25, 30-31.	0.4	0
60	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
61	Homochiral Skyrmionic Bubbles in Exfoliated 2D Van Der Waals Cr <sub>2</sub> Ge <sub>2</sub> Te <sub>6</sub> . <i>Microscopy and Microanalysis</i> , 2020, 26, 2138-2140.	0.4	0
62	In situ cryo-electron microscopy of two-dimensional van der Waals magnets. <i>Microscopy and Microanalysis</i> , 2021, 27, 326-328.	0.4	0
63	Electrostatic Asymmetry of Wurtzite Nanocrystals and Resulting Photocatalytic Properties. <i>Journal of Physical Chemistry C</i> , 2022, 126, 4751-4761.	3.1	0