

# 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

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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>&lt; i&gt;Operando&lt;/i&gt;</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 $\text{BaZrO}_3$ . <i>Physical Review B</i> , 2021, 104, .	5.1	14
18	Scalable Synthesis of the Transparent Conductive Oxide SrVO <sub>3</sub> . <i>Advanced Electronic Materials</i> , 2020, 6, 1900584.	5.1	14

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

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37	Interface reconstruction with emerging charge ordering in hexagonal manganite. <i>Science Advances</i> , 2018, 4, eaar4298.	10.3	37
38	Linearly aligned single-chiral vortices in hexagonal manganites by $\text{in}_{\text{mml:mi}} \text{in}_{\text{mml:mspace width="4pt"}}$ electric arc heating. <i>Physical Review Materials</i> , 2018, 2, .	2.4	4
39	Publisher's note. <i>Ultramicroscopy</i> , 2017, 177, 14-19.	1.9	5
40	Optical Asymmetry and Nonlinear Light Scattering from Colloidal Gold Nanorods. <i>ACS Nano</i> , 2017, 11, 5925-5932.	14.6	23
41	A Generalizable Multigram Synthesis and Mechanistic Investigation of $\text{YMnO}_3$ Nanoplates. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 5573-5585.	3.7	9
42	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
43	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
44	Atomically Thin Femtojoule Memristive Device. <i>Advanced Materials</i> , 2017, 29, 1703232.	21.0	147
45	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
46	Topologically Allowed Nonsixfold Vortices in a Sixfold Multiferroic Material: Observation and Classification. <i>Physical Review Letters</i> , 2017, 118, 145501.	7.8	20
47	Interfacial Coupling and Polarization of Perovskite $\text{ABO}_3$ Heterostructures. <i>Microscopy and Microanalysis</i> , 2017, 23, 1586-1587.	0.4	1
48	Coupling of bias-induced crystallographic shear planes with charged domain walls in ferroelectric oxide thin films. <i>Physical Review B</i> , 2016, 94, .	3.2	9
49	<i>Disorder-driven topological phase transition in</i> $B_{\text{in}_{\text{mml:mi}} \text{in}_{\text{mml:msub}} \text{in}_{\text{mml:mi}}}$ <i>Tunable inverse topological heterostructure utilizing</i> $\text{in}_{\text{mml:math}}$ <i>xmlns:mml="http://www.w3.org/1998/Math/MathML"</i> $\text{in}_{\text{mml:mrow}} \text{in}_{\text{mml:msub}} \text{in}_{\text{mml:mrow}} \text{in}_{\text{mml:mo}} (\text{in}_{\text{mml:mo}} \text{in}_{\text{mml:mrow}} \text{in}_{\text{mml:mo}})$	3.2	19
50		3.2	21
51	In Situ Electron Holography of Ferroelectric Thin Films. <i>Microscopy and Microanalysis</i> , 2015, 21, 1401-1402.	0.4	0
52	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
53	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
54	<i>Electric-field-induced strain effects on the magnetization of a</i> $P_{\text{in}_{\text{mml:mi}} \text{in}_{\text{mml:msub}} \text{in}_{\text{mml:mi}}}$ $\text{in}_{\text{mml:mrow}} \text{in}_{\text{mml:mn}} > 0.67$ $\text{in}_{\text{mml:mn}} \text{in}_{\text{mml:mrow}} \text{in}_{\text{mml:msub}} \text{in}_{\text{mml:mi}}$ $\text{in}_{\text{mml:math}}$ $S_{\text{in}_{\text{mml:mi}} \text{in}_{\text{mml:msub}} \text{in}_{\text{mml:mi}}}$ $\text{in}_{\text{mml:mrow}} \text{in}_{\text{mml:mn}} > 0.33$ $\text{in}_{\text{mml:mn}} \text{in}_{\text{mml:mrow}} \text{in}_{\text{mml:msub}} \text{in}_{\text{mml:mi}} \text{Mn}_{\text{in}_{\text{mml:mi}} \text{in}_{\text{mml:msub}} \text{in}_{\text{mml:mi}}}$	3.2	7

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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. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	28	
56	Conduction at a Ferroelectric Interface. <i>Physical Review Applied</i> , 2014, 2, .	3.8	41	
57	Interface-induced nonswitchable domains in ferroelectric thin films. <i>Nature Communications</i> , 2014, 5, 4693.	12.8	120	
58	Unfolding of Vortices into Topological Stripes in a Multiferroic Material. <i>Physical Review Letters</i> , 2014, 112, 247601.	7.8	47	
59	Hollandites as a new class of multiferroics. <i>Scientific Reports</i> , 2014, 4, 6203.	3.3	35	
60	Ferroelectric Switching Dynamics of Topological Vortex Domains in a Hexagonal Manganite. <i>Advanced Materials</i> , 2013, 25, 2415-2421.	21.0	91	
61	Ferroelectric order in individual nanometre-scale crystals. <i>Nature Materials</i> , 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. <i>Applied Physics Letters</i> , 2011, 99, 102902.	3.3	49	
63	Direct measurement of electron beam induced currents in p-type silicon. <i>Solid-State Electronics</i> , 2010, 54, 777-780.	1.4	7	