

# Myung-Geun Han

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11410866/publications.pdf>

Version: 2024-02-01

35  
papers

1,345  
citations

430874

18  
h-index

454955

30  
g-index

35  
all docs

35  
docs citations

35  
times ranked

2874  
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	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
8	Quantitative phase imaging of nanoscale electrostatic and magnetic fields using off-axis electron holography. <i>Ultramicroscopy</i> , 2010, 110, 375-382.	1.9	45
9	Dipole-like electrostatic asymmetry of gold nanorods. <i>Science Advances</i> , 2018, 4, e1700682.	10.3	39
10	Interface reconstruction with emerging charge ordering in hexagonal manganite. <i>Science Advances</i> , 2018, 4, eaar4298.	10.3	37
11	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
12	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
13	Optical Asymmetry and Nonlinear Light Scattering from Colloidal Gold Nanorods. <i>ACS Nano</i> , 2017, 11, 5925-5932.	14.6	23
14	Topologically Allowed Nonsixfold Vortices in a Sixfold Multiferroic Material: Observation and Classification. <i>Physical Review Letters</i> , 2017, 118, 145501.	7.8	20
15	Quantitative Analysis of 2-D Electrostatic Potential Distributions in 90-nm Si pMOSFETs Using Off-Axis Electron Holography. <i>IEEE Transactions on Electron Devices</i> , 2007, 54, 3336-3341.	3.0	19
16	Atomically Thin CBRAM Enabled by 2-D Materials: Scaling Behaviors and Performance Limits. <i>IEEE Transactions on Electron Devices</i> , 2018, 65, 4160-4166.	3.0	19
17	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
18	Sample Preparation for Precise and Quantitative Electron Holographic Analysis of Semiconductor Devices. <i>Microscopy and Microanalysis</i> , 2006, 12, 295-301.	0.4	18

#	ARTICLE	IF	CITATIONS
19	Deterministic Ferroelastic Domain Switching Using Ferroelectric Bilayers. Nano Letters, 2019, 19, 5319-5326.	9.1	15
20	<i>Operando</i> characterization of conductive filaments during resistive switching in Mott VO <sub>2</sub> . Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	15
21	Electron-beam-induced-current and active secondary-electron voltage-contrast with aberration-corrected electron probes. Ultramicroscopy, 2017, 176, 80-85.	1.9	14
22	<i>In situ</i> electron holographic analysis of biased Si n+p junctions. Applied Physics Letters, 2008, 92, .	3.3	13
23	Observation of Ferroelectricity and Structure-Dependent Magnetic Behavior in Novel One-Dimensional Motifs of Pure, Crystalline Yttrium Manganese Oxides. Journal of Physical Chemistry C, 2014, 118, 21695-21705.	3.1	11
24	Hybrid Symmetry Epitaxy of the Superconducting Fe(Te,Se) Film on a Topological Insulator. Nano Letters, 2021, 21, 6518-6524.	9.1	9
25	Revealing the Effects of Trace Oxygen Vacancies on Improper Ferroelectric Manganite with In Situ Biasing. Advanced Electronic Materials, 2019, 5, 1800827.	5.1	8
26	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
27	Publisher's note. Ultramicroscopy, 2017, 177, 14-19.	1.9	5
28	Engineering Topological Superlattices and Phase Diagrams. Nano Letters, 2019, 19, 716-721.	9.1	5
29	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
30	Linearly aligned single-chiral vortices in hexagonal manganites by $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi mathvariant="italic"} \rangle \text{in} \langle \text{mml:mi} \rangle \langle \text{mml:mpace width="4pt"} \rangle \langle \text{mml:mi mathvariant="italic"} \rangle \text{situ} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ electric arc heating. Physical Review Materials, 2018, 2, .	2.4	4
31	Electrostatic Potential Mapping by Secondary-electron Voltage-contrast and Electron-beam-induced-current in TEM. Microscopy and Microanalysis, 2017, 23, 1424-1425.	0.4	0
32	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
33	Homochiral Skyrmionic 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
34	In situ cryo-electron microscopy of two-dimensional van der Waals magnets. Microscopy and Microanalysis, 2021, 27, 326-328.	0.4	0
35	Electrostatic Asymmetry of Wurtzite Nanocrystals and Resulting Photocatalytic Properties. Journal of Physical Chemistry C, 2022, 126, 4751-4761.	3.1	0