

# Hyun Wook Shin

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

136  
citations

1683354

5  
h-index

1281420

11  
g-index

20  
all docs

20  
docs citations

20  
times ranked

249  
citing authors

#	ARTICLE	IF	CITATIONS
1	Short-wavelength infrared photodetector on Si employing strain-induced growth of very tall InAs nanowire arrays. <i>Scientific Reports</i> , 2015, 5, 10764.	1.6	54
2	Nonvolatile ferroelectric memory based on PbTiO <sub>3</sub> gated single-layer MoS <sub>2</sub> field-effect transistor. <i>Electronic Materials Letters</i> , 2018, 14, 59-63.	1.0	17
3	Ferroelectric properties of HfO <sub>2</sub> nanodots with a diameter smaller than 10 nm deposited on an ITO bottom electrode. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	9
4	Characteristics of MoS <sub>2</sub> monolayer non-volatile memory field effect transistors affected by the ferroelectric properties of BiFeO <sub>3</sub> thin films with Pt and SrRuO <sub>3</sub> bottom electrodes grown on glass substrates. <i>Journal of Alloys and Compounds</i> , 2019, 792, 673-678.	2.8	7
5	Ferroelectric properties and piezoresponse force microroscopy study of Bi <sub>3</sub> TaTiO <sub>9</sub> thin films. <i>Ultramicroscopy</i> , 2019, 196, 49-53.	0.8	5
6	Multiferroic and photovoltaic current properties of tetragonally strained BiFeO <sub>3</sub> thin films. <i>Journal of Electroceramics</i> , 2020, 44, 242-247.	0.8	5
7	Large ferroelectric domain structures of epitaxial Bi <sub>2</sub> FeMnO <sub>6</sub> thin films on Nb-doped SrTiO <sub>3</sub> substrates. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 15302-15305.	1.1	4
8	Ferroelectric properties of highly a-oriented polycrystalline Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> thin films grown on glass substrates. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 2573-2576.	1.1	4
9	Ferroelectric BiFeO <sub>3</sub> nanodots formed in non-crystallized BiFeO <sub>3</sub> thin-films via a local heating process using a heated atomic force microscope tip. <i>Journal of Sol-Gel Science and Technology</i> , 2018, 86, 170-174.	1.1	4
10	A conducting atomic force microscopy study of conducting filament nanobits in the epitaxial NiO thin film prepared precisely controlled by the oxidation time of the single crystalline Ni substrates. <i>Ultramicroscopy</i> , 2019, 205, 57-61.	0.8	4
11	Enhanced multiferroic properties of tetragonally strained epitaxial BiMnO <sub>3</sub> thin films grown on single crystal Rh substrates. <i>Solid State Sciences</i> , 2019, 91, 7-9.	1.5	4
12	Vortex ferromagnetic domain structures of ferromagnetic CoFe <sub>2</sub> O <sub>4</sub> nanodisks formed by local crystallization using a heated atomic force microscope tip. <i>Materials Letters</i> , 2018, 213, 331-334.	1.3	3
13	Characteristics of ferroelectric field effect transistors composed of a ferroelectric Bi <sub>3</sub> TaTiO <sub>9</sub> gate stack and a single-layer MoS <sub>2</sub> channel. <i>Applied Physics Letters</i> , 2019, 115, 242902.	1.5	3
14	Current change due to artificial patterning of the number of ferroelectric domain walls and nonvolatile memory characteristics. <i>Applied Physics Letters</i> , 2021, 119, 122901.	1.5	3
15	Nonvolatile-memory current characteristics of BiFeO <sub>3</sub> nanodots switched by applying external bias and force. <i>Ceramics International</i> , 2021, 47, 28449-28454.	2.3	3
16	Cu-Doped ZnO Thin Films Grown by Co-deposition Using Pulsed Laser Deposition for ZnO and Radio Frequency Sputtering for Cu. <i>Journal of Electronic Materials</i> , 2018, 47, 4610-4614.	1.0	2
17	Preferential growth characteristics and ferroelectric properties of epitaxial SrBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> thin films along the a-axis direction due to the misfit strains. <i>Materials Science in Semiconductor Processing</i> , 2021, 134, 105991.	1.9	2
18	Phosphorene field-effect transistors using high-k gate dielectrics of epitaxial SrTiO <sub>3</sub> layers grown on Nb-doped SrTiO <sub>3</sub> substrates. <i>Materials Science in Semiconductor Processing</i> , 2017, 71, 409-412.	1.9	1

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19	Imprinted hysteresis loops and size-reduced ferroelectric polarization nanodots in epitaxial PbTiO <sub>3</sub> thin film after heat treatment. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 276, 115533.	1.7	1
20	Ferroelectric switching and current characteristics dependence on ferroelectric polarization direction of microwave synthesized BiFeO <sub>3</sub> nanocubes. <i>Ceramics International</i> , 2022, 48, 22712-22717.	2.3	1