## Han Joon Kim

## List of Publications by Citations

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37	3,248 citations	27	37
papers		h-index	g-index
37 ext. papers	3,817 ext. citations	8.6 avg, IF	5.06 L-index

#	Paper	IF	Citations
37	Ferroelectricity and antiferroelectricity of doped thin HfO2-based films. <i>Advanced Materials</i> , <b>2015</b> , 27, 1811-31	24	554
36	Evolution of phases and ferroelectric properties of thin Hf0.5Zr0.5O2 films according to the thickness and annealing temperature. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 242905	3.4	352
35	Thin HfxZr1-xO2 Films: A New Lead-Free System for Electrostatic Supercapacitors with Large Energy Storage Density and Robust Thermal Stability. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1400610	21.8	221
34	The effects of crystallographic orientation and strain of thin Hf0.5Zr0.5O2 film on its ferroelectricity. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 072901	3.4	191
33	Surface and grain boundary energy as the key enabler of ferroelectricity in nanoscale hafnia-zirconia: a comparison of model and experiment. <i>Nanoscale</i> , <b>2017</b> , 9, 9973-9986	7.7	162
32	A study on the wake-up effect of ferroelectric Hf0.5Zr0.5O2 films by pulse-switching measurement. <i>Nanoscale</i> , <b>2016</b> , 8, 1383-9	7.7	153
31	Toward a multifunctional monolithic device based on pyroelectricity and the electrocaloric effect of thin antiferroelectric Hf x Zr $1$ O $2$ films. <i>Nano Energy</i> , <b>2015</b> , 12, 131-140	17.1	144
30	Grain size engineering for ferroelectric Hf0.5Zr0.5O2 films by an insertion of Al2O3 interlayer. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 192903	3.4	134
29	Effect of Zr Content on the Wake-Up Effect in Hf1-xZrxO2 Films. ACS Applied Materials & Samp; Interfaces, <b>2016</b> , 8, 15466-75	9.5	132
28	Effect of forming gas annealing on the ferroelectric properties of Hf0.5Zr0.5O2 thin films with and without Pt electrodes. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 112914	3.4	117
27	Understanding the formation of the metastable ferroelectric phase in hafnia-zirconia solid solution thin films. <i>Nanoscale</i> , <b>2018</b> , 10, 716-725	7.7	103
26	Ferroelectric properties and switching endurance of Hf0.5Zr0.5O2 films on TiN bottom and TiN or RuO2 top electrodes. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2014</b> , 8, 532-535	2.5	102
25	Study on the degradation mechanism of the ferroelectric properties of thin Hf0.5Zr0.5O2 films on TiN and Ir electrodes. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 072902	3.4	99
24	Study on the size effect in Hf0.5Zr0.5O2 films thinner than 8 nm before and after wake-up field cycling. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 192907	3.4	92
23	Giant Negative Electrocaloric Effects of Hf Zr O Thin Films. <i>Advanced Materials</i> , <b>2016</b> , 28, 7956-7961	24	91
22	Scale-up and optimization of HfO2-ZrO2 solid solution thin films for the electrostatic supercapacitors. <i>Nano Energy</i> , <b>2017</b> , 39, 390-399	17.1	59
21	Time-Dependent Negative Capacitance Effects in Al2O3/BaTiO3 Bilayers. <i>Nano Letters</i> , <b>2016</b> , 16, 4375	-8 <b>1</b> 1.5	59

## (2019-2017)

20	Preparation and characterization of ferroelectric HfZrO thin films grown by reactive sputtering. <i>Nanotechnology</i> , <b>2017</b> , 28, 305703	3.4	48
19	Voltage Drop in a Ferroelectric Single Layer Capacitor by Retarded Domain Nucleation. <i>Nano Letters</i> , <b>2017</b> , 17, 7796-7802	11.5	43
18	A comprehensive study on the mechanism of ferroelectric phase formation in hafnia-zirconia nanolaminates and superlattices. <i>Applied Physics Reviews</i> , <b>2019</b> , 6, 041403	17.3	41
17	Dispersion in Ferroelectric Switching Performance of Polycrystalline HfZrO Thin Films. <i>ACS Applied Materials &amp; ACS Applied &amp; ACS Appl</i>	9.5	38
16	Frustration of Negative Capacitance in Al2O3/BaTiO3 Bilayer Structure. Scientific Reports, 2016, 6, 1903	8 <b>9</b> 4.9	37
15	Morphotropic Phase Boundary of HfZr O Thin Films for Dynamic Random Access Memories. <i>ACS Applied Materials &amp; Dynamic Random Access Memories</i> . <b>2018</b> , 10, 42666-42673	9.5	37
14	Two-step polarization switching mediated by a nonpolar intermediate phase in Hf0.4Zr0.6O2 thin films. <i>Nanoscale</i> , <b>2016</b> , 8, 13898-907	7.7	36
13	Alternative interpretations for decreasing voltage with increasing charge in ferroelectric capacitors. <i>Scientific Reports</i> , <b>2016</b> , 6, 20825	4.9	36
12	Transient Negative Capacitance Effect in Atomic-Layer-Deposited Al2O3/Hf0.3Zr0.7O2 Bilayer Thin Film. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1808228	15.6	31
11	Improved Initial Growth Behavior of SrO and SrTiO3 Films Grown by Atomic Layer Deposition Using {Sr(demamp)(tmhd)}2 as Sr-Precursor. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 3881-3891	9.6	29
10	Interfacial charge-induced polarization switching in Al2O3/Pb(Zr,Ti)O3 bi-layer. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 224105	2.5	24
9	Filament Shape Dependent Reset Behavior Governed by the Interplay between the Electric Field and Thermal Effects in the Pt/TiO2/Cu Electrochemical Metallization Device. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1600404	6.4	20
8	Effect of the annealing temperature of thin Hf0.3Zr0.7O2 films on their energy storage behavior. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2014</b> , 8, 857-861	2.5	16
7	Composition, Microstructure, and Electrical Performance of Sputtered SnO Thin Films for p-Type Oxide Semiconductor. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2018</b> , 10, 3810-3821	9.5	13
6	Electrically-generated memristor based on inkjet printed silver nanoparticles. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 2990-2998	5.1	13
5	Reducing the nano-scale defect formation of atomic-layer-deposited SrTiO3 films by adjusting the cooling rate of the crystallization annealing of the seed layer. <i>Thin Solid Films</i> , <b>2015</b> , 589, 723-729	2.2	8
4	Research Update: Diode performance of the Pt/Al2O3/two-dimensional electron gas/SrTiO3 structure and its time-dependent resistance evolution. <i>APL Materials</i> , <b>2017</b> , 5, 042301	5.7	6
3	Effect of Surface/Interface Energy and Stress on the Ferroelectric Properties <b>2019</b> , 145-172		4

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