

Han Joon Kim

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

37
papers

3,248
citations

27
h-index

37
g-index

37
ext. papers

3,817
ext. citations

8.6
avg, IF

5.06
L-index

#	Paper	IF	Citations
37	Transient Negative Capacitance Effect in Atomic-Layer-Deposited Al ₂ O ₃ /Hf _{0.3} Zr _{0.7} O ₂ Bilayer Thin Film. <i>Advanced Functional Materials</i> , 2019 , 29, 1808228	15.6	31
36	Impact of Zr Content in Atomic Layer Deposited Hf _{1-x} Zr _x O ₂ Thin Films 2019 , 75-101		3
35	Effect of Surface/Interface Energy and Stress on the Ferroelectric Properties 2019 , 145-172		4
34	Electrically-generated memristor based on inkjet printed silver nanoparticles. <i>Nanoscale Advances</i> , 2019 , 1, 2990-2998	5.1	13
33	A comprehensive study on the mechanism of ferroelectric phase formation in hafnia-zirconia nanolaminates and superlattices. <i>Applied Physics Reviews</i> , 2019 , 6, 041403	17.3	41
32	Composition, Microstructure, and Electrical Performance of Sputtered SnO Thin Films for p-Type Oxide Semiconductor. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 3810-3821	9.5	13
31	Understanding the formation of the metastable ferroelectric phase in hafnia-zirconia solid solution thin films. <i>Nanoscale</i> , 2018 , 10, 716-725	7.7	103
30	Morphotropic Phase Boundary of HfZr O Thin Films for Dynamic Random Access Memories. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42666-42673	9.5	37
29	Dispersion in Ferroelectric Switching Performance of Polycrystalline HfZrO Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 35374-35384	9.5	38
28	Filament Shape Dependent Reset Behavior Governed by the Interplay between the Electric Field and Thermal Effects in the Pt/TiO ₂ /Cu Electrochemical Metallization Device. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600404	6.4	20
27	Surface and grain boundary energy as the key enabler of ferroelectricity in nanoscale hafnia-zirconia: a comparison of model and experiment. <i>Nanoscale</i> , 2017 , 9, 9973-9986	7.7	162
26	Research Update: Diode performance of the Pt/Al ₂ O ₃ /two-dimensional electron gas/SrTiO ₃ structure and its time-dependent resistance evolution. <i>APL Materials</i> , 2017 , 5, 042301	5.7	6
25	Scale-up and optimization of HfO ₂ -ZrO ₂ solid solution thin films for the electrostatic supercapacitors. <i>Nano Energy</i> , 2017 , 39, 390-399	17.1	59
24	Voltage Drop in a Ferroelectric Single Layer Capacitor by Retarded Domain Nucleation. <i>Nano Letters</i> , 2017 , 17, 7796-7802	11.5	43
23	Preparation and characterization of ferroelectric HfZrO thin films grown by reactive sputtering. <i>Nanotechnology</i> , 2017 , 28, 305703	3.4	48
22	A study on the wake-up effect of ferroelectric Hf _{0.5} Zr _{0.5} O ₂ films by pulse-switching measurement. <i>Nanoscale</i> , 2016 , 8, 1383-9	7.7	153
21	Frustration of Negative Capacitance in Al ₂ O ₃ /BaTiO ₃ Bilayer Structure. <i>Scientific Reports</i> , 2016 , 6, 19039	4.9	37

20	Effect of Zr Content on the Wake-Up Effect in Hf _{1-x} Zr _x O ₂ Films. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15466-75	9.5	132
19	Two-step polarization switching mediated by a nonpolar intermediate phase in Hf _{0.4} Zr _{0.6} O ₂ thin films. <i>Nanoscale</i> , 2016 , 8, 13898-907	7.7	36
18	Alternative interpretations for decreasing voltage with increasing charge in ferroelectric capacitors. <i>Scientific Reports</i> , 2016 , 6, 20825	4.9	36
17	Time-Dependent Negative Capacitance Effects in Al ₂ O ₃ /BaTiO ₃ Bilayers. <i>Nano Letters</i> , 2016 , 16, 4375-81	11.5	59
16	Giant Negative Electrocaloric Effects of Hf Zr O Thin Films. <i>Advanced Materials</i> , 2016 , 28, 7956-7961	24	91
15	Improved Initial Growth Behavior of SrO and SrTiO ₃ Films Grown by Atomic Layer Deposition Using {Sr(demamp)(tmhd)} ₂ as Sr-Precursor. <i>Chemistry of Materials</i> , 2015 , 27, 3881-3891	9.6	29
14	Ferroelectricity and antiferroelectricity of doped thin HfO ₂ -based films. <i>Advanced Materials</i> , 2015 , 27, 1811-31	24	554
13	Reducing the nano-scale defect formation of atomic-layer-deposited SrTiO ₃ films by adjusting the cooling rate of the crystallization annealing of the seed layer. <i>Thin Solid Films</i> , 2015 , 589, 723-729	2.2	8
12	Interfacial charge-induced polarization switching in Al ₂ O ₃ /Pb(Zr,Ti)O ₃ bi-layer. <i>Journal of Applied Physics</i> , 2015 , 118, 224105	2.5	24
11	Study on the size effect in Hf _{0.5} Zr _{0.5} O ₂ films thinner than 8 nm before and after wake-up field cycling. <i>Applied Physics Letters</i> , 2015 , 107, 192907	3.4	92
10	Toward a multifunctional monolithic device based on pyroelectricity and the electrocaloric effect of thin antiferroelectric Hf x Zr 1x O 2 films. <i>Nano Energy</i> , 2015 , 12, 131-140	17.1	144
9	Effect of the annealing temperature of thin Hf _{0.3} Zr _{0.7} O ₂ films on their energy storage behavior. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014 , 8, 857-861	2.5	16
8	Grain size engineering for ferroelectric Hf _{0.5} Zr _{0.5} O ₂ films by an insertion of Al ₂ O ₃ interlayer. <i>Applied Physics Letters</i> , 2014 , 105, 192903	3.4	134
7	The effects of crystallographic orientation and strain of thin Hf _{0.5} Zr _{0.5} O ₂ film on its ferroelectricity. <i>Applied Physics Letters</i> , 2014 , 104, 072901	3.4	191
6	Ferroelectric properties and switching endurance of Hf _{0.5} Zr _{0.5} O ₂ films on TiN bottom and TiN or RuO ₂ top electrodes. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014 , 8, 532-535	2.5	102
5	Study on the degradation mechanism of the ferroelectric properties of thin Hf _{0.5} Zr _{0.5} O ₂ films on TiN and Ir electrodes. <i>Applied Physics Letters</i> , 2014 , 105, 072902	3.4	99
4	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> , 2014 , 4, 1400610	21.8	221
3	Effect of forming gas annealing on the ferroelectric properties of Hf _{0.5} Zr _{0.5} O ₂ thin films with and without Pt electrodes. <i>Applied Physics Letters</i> , 2013 , 102, 112914	3.4	117

- 2 Evolution of phases and ferroelectric properties of thin Hf_{0.5}Zr_{0.5}O₂ films according to the thickness and annealing temperature. *Applied Physics Letters*, **2013**, 102, 242905 3-4 352
- 1 Poster: Polar Dielectrics, Optics, and Ionics 633-663