## Seungbum Hong

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Ferroelectric thin films: Review of materials, properties, and applications. Journal of Applied Physics, 2006, 100, 051606.	1.1	1,480
2	Principle of ferroelectric domain imaging using atomic force microscope. Journal of Applied Physics, 2001, 89, 1377-1386.	1.1	293
3	Direct observation of region by region suppression of the switchable polarization (fatigue) in Pb(Zr,Ti)O3 thin film capacitors with Pt electrodes. Applied Physics Letters, 1998, 72, 2763-2765.	1.5	215
4	Flexible ferroelectric organic crystals. Nature Communications, 2016, 7, 13108.	5.8	182
5	High resolution study of domain nucleation and growth during polarization switching in Pb(Zr,Ti)O3 ferroelectric thin film capacitors. Journal of Applied Physics, 1999, 86, 607-613.	1.1	144
6	First Demonstration of a Logic-Process Compatible Junctionless Ferroelectric FinFET Synapse for Neuromorphic Applications. IEEE Electron Device Letters, 2018, 39, 1445-1448.	2.2	121
7	Origin of surface potential change during ferroelectric switching in epitaxial PbTiO3 thin films studied by scanning force microscopy. Applied Physics Letters, 2009, 94, 032907.	1.5	94
8	An eco-friendly flexible piezoelectric energy harvester that delivers high output performance is based on lead-free MASnI3 films and MASnI3-PVDF composite films. Nano Energy, 2019, 57, 911-923.	8.2	94
9	Intrinsically stretchable multi-functional fiber with energy harvesting and strain sensing capability. Nano Energy, 2019, 55, 348-353.	8.2	86
10	Graphene-based materials and structures for energy harvesting with fluids – A review. Materials Today, 2018, 21, 1019-1041.	8.3	81
11	Quantitative analysis of the bit size dependence on the pulse width and pulse voltage in ferroelectric memory devices using atomic force microscopy. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2001, 19, 818.	1.6	77
12	Scanning resistive probe microscopy: Imaging ferroelectric domains. Applied Physics Letters, 2004, 84, 1734-1736.	1.5	72
13	Effect of Ag nanoparticle concentration on the electrical and ferroelectric properties of Ag/P(VDF-TrFE) composite films. Scientific Reports, 2015, 5, 13209.	1.6	71
14	Screening mechanisms at polar oxide heterointerfaces. Reports on Progress in Physics, 2016, 79, 076501.	8.1	69
15	Enhanced piezoelectric output performance via control of dielectrics in Fe2+-incorporated MAPbI3 perovskite thin films: Flexible piezoelectric generators. Nano Energy, 2018, 49, 247-256.	8.2	68
16	Imaging Local Polarization in Ferroelectric Thin Films by Coherent X-Ray Bragg Projection Ptychography. Physical Review Letters, 2013, 110, 177601.	2.9	67
17	Read/write mechanisms and data storage system using atomic force microscopy and MEMS technology. Ultramicroscopy, 2002, 91, 103-110.	0.8	65
18	Enhancement of Local Piezoresponse in Polymer Ferroelectrics <i>via</i> Nanoscale Control of Microstructure, ACS Nano, 2015, 9, 1809-1819.	7.3	65

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19	Effect of cantilever–sample interaction on piezoelectric force microscopy. Applied Physics Letters, 2002, 80, 1453-1455.	1.5	60
20	Injection charge assisted polarization reversal in ferroelectric thin films. Applied Physics Letters, 2007, 90, 072910.	1.5	56
21	Effects of cantilever buckling on vector piezoresponse force microscopy imaging of ferroelectric domains in BiFeO3 nanostructures. Applied Physics Letters, 2010, 96, .	1.5	56
22	On measurement of optical band gap of chromium oxide films containing both amorphous and crystalline phases. Journal of Non-Crystalline Solids, 1997, 221, 245-254.	1.5	55
23	Three-dimensional ferroelectric domain imaging of epitaxial BiFeO3 thin films using angle-resolved piezoresponse force microscopy. Applied Physics Letters, 2010, 97, .	1.5	54
24	Nanoscale domain growth dynamics of ferroelectric poly(vinylidene fluoride-co-trifluoroethylene) thin films. Applied Physics Letters, 2010, 96, .	1.5	51
25	Unusual size effect on the polarization patterns in micron-size Pb(Zr,Ti)O3 film capacitors. Applied Physics Letters, 2002, 80, 4804-4806.	1.5	50
26	Light-Driven Piezo- and Triboelectricity in Organic–Inorganic Metal Trihalide Perovskite toward Mechanical Energy Harvesting and Self-powered Sensor Application. ACS Applied Materials & Interfaces, 2020, 12, 50472-50483.	4.0	46
27	Unveiling Predominant Air-Stable Organotin Bromide Perovskite toward Mechanical Energy Harvesting. ACS Applied Materials & Interfaces, 2020, 12, 16469-16480.	4.0	45
28	Cost-effective and strongly integrated fabric-based wearable piezoelectric energy harvester. Nano Energy, 2020, 75, 104992.	8.2	45
29	Fabrication and investigation of ultrathin, and smooth Pb(Zr,Ti)O3 films for miniaturization of microelectronic devices. Journal of Applied Physics, 2002, 92, 7434-7441.	1.1	44
30	Charge gradient microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6566-6569.	3.3	44
31	Vertically aligned P(VDF-TrFE) core-shell structures on flexible pillar arrays. Scientific Reports, 2015, 5, 10728.	1.6	44
32	Study of domain stability on (Pb0.76Ca0.24)TiO3 thin films using piezoresponse microscopy. Applied Physics Letters, 2002, 81, 715-717.	1.5	41
33	High-Resolution Field Effect Sensing of Ferroelectric Charges. Nano Letters, 2011, 11, 1428-1433.	4.5	38
34	Nanoscale piezoresponse studies of ferroelectric domains in epitaxial BiFeO3 nanostructures. Journal of Applied Physics, 2009, 105, 061619.	1.1	37
35	Reducing Time to Discovery: Materials and Molecular Modeling, Imaging, Informatics, and Integration. ACS Nano, 2021, 15, 3971-3995.	7.3	36
36	Effect of domain structure on thermal stability of nanoscale ferroelectric domains. Applied Physics Letters, 2002, 80, 4000-4002.	1.5	35

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37	Thermally assisted nanotransfer printing with sub–20-nm resolution and 8-inch wafer scalability. Science Advances, 2020, 6, eabb6462.	4.7	35
38	Three-dimensional ferroelectric domain imaging of bulk Pb(Zr,Ti)O3 by atomic force microscopy. Applied Physics Letters, 2004, 84, 2382-2384.	1.5	34
39	A spring-type piezoelectric energy harvester. RSC Advances, 2013, 3, 3194.	1.7	34
40	Non-oxidized bare copper nanoparticles with surface excess electrons in air. Nature Nanotechnology, 2022, 17, 285-291.	15.6	34
41	Polymer piezoelectric energy harvesters for low wind speed. Applied Physics Letters, 2014, 104, .	1.5	33
42	Effect of nanopatterning on mechanical properties of Lithium anode. Scientific Reports, 2018, 8, 2514.	1.6	33
43	Local surface potential distribution in oriented ferroelectric thin films. Applied Physics Letters, 2007, 91, .	1.5	32
44	X-ray Irradiation Induced Reversible Resistance Change in Pt/TiO <sub>2</sub> /Pt Cells. ACS Nano, 2014, 8, 1584-1589.	7.3	32
45	Evidence for forward domain growth being rate-limiting step in polarization switching in ã€^111〉-oriented-Pb(Zr0.45Ti0.55)O3 thin-film capacitors. Applied Physics Letters, 2002, 81, 3437-3439.	1.5	31
46	Ferroelectric Domain Wall Motion in Freestanding Singleâ€Crystal Complex Oxide Thin Film. Advanced Materials, 2020, 32, e1907036.	11.1	30
47	Tribological characteristics of probe tip and PZT media for AFM-based recording technology. IEEE Transactions on Magnetics, 2005, 41, 849-854.	1.2	28
48	Room-temperature relaxor ferroelectricity and photovoltaic effects in tin titanate directly deposited on a silicon substrate. Physical Review B, 2018, 97, .	1.1	28
49	Effect of local surface potential distribution on its relaxation in polycrystalline ferroelectric films. Journal of Applied Physics, 2010, 107, .	1.1	27
50	Ambient effects on electric-field-induced local charge modification of TiO2. Applied Physics Letters, 2012, 100, .	1.5	27
51	Tunable and rapid self-assembly of block copolymers using mixed solvent vapors. Nanoscale, 2014, 6, 15216-15221.	2.8	27
52	Effect of the dielectric constant of a liquid electrolyte on lithium metal anodes. Electrochimica Acta, 2019, 300, 299-305.	2.6	27
53	Nanoscale piezoresponse of 70 nm poly(vinylidene fluorideâ€trifluoroâ€ethylene) films annealed at different temperatures. Physica Status Solidi - Rapid Research Letters, 2010, 4, 94-96.	1.2	26
54	Size effect of flexible proof mass on the mechanical behavior of micron-scale cantilevers for energy harvesting applications. Applied Physics Letters, 2011, 99, .	1.5	26

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55	Synthesis and Application of Ferroelectric Poly(Vinylidene Fluoride-co-Trifluoroethylene) Films using Electrophoretic Deposition. Scientific Reports, 2016, 6, 36176.	1.6	26
56	Modulation of oxygen vacancies assisted ferroelectric and photovoltaic properties of (Nd, V) co-doped BiFeO <sub>3</sub> thin films. Journal Physics D: Applied Physics, 2018, 51, 275303.	1.3	26
57	Correlation between grain size and domain size distributions in ferroelectric media for probe storage applications. Applied Physics Letters, 2006, 89, 162907.	1.5	25
58	Screen charge transfer by grounded tip on ferroelectric surfaces. Physica Status Solidi - Rapid Research Letters, 2008, 2, 74-76.	1.2	25
59	Geometry- and size-dependence of electrical properties of metal contacts on semiconducting nanowires. Journal of Applied Physics, 2010, 108, 094308.	1.1	25
60	Imaging Ferroelectric Domains and Domain Walls Using Charge Gradient Microscopy: Role of Screening Charges. ACS Nano, 2016, 10, 2568-2574.	7.3	25
61	Machine learning assisted synthesis of lithium-ion batteries cathode materials. Nano Energy, 2022, 98, 107214.	8.2	24
62	Nano-tribological characteristics of PZT thin film investigated by atomic force microscopy. Surface and Coatings Technology, 2007, 201, 7983-7991.	2.2	23
63	Long-range Stripe Nanodomains in Epitaxial (110) BiFeO3 Thin Films on (100) NdGaO3 Substrate. Scientific Reports, 2017, 7, 4857.	1.6	23
64	Breaking the elastic limit of piezoelectric ceramics using nanostructures: A case study using ZnO. Nano Energy, 2020, 78, 105259.	8.2	23
65	Tip traveling and grain boundary effects in domain formation using piezoelectric force microscopy for probe storage applications. Applied Physics Letters, 2006, 89, 172909.	1.5	22
66	Magnetic interactions and reversal of artificial square spin ices. New Journal of Physics, 2012, 14, 075028.	1.2	22
67	Visualization of ion transport in Nafion using electrochemical strain microscopy. Chemical Communications, 2016, 52, 831-834.	2.2	22
68	Single frequency vertical piezoresponse force microscopy. Journal of Applied Physics, 2021, 129, .	1.1	22
69	Piezoresponse force microscopy studies of PbTiO3 thin films grown via layer-by-layer gas phase reaction. Applied Physics Letters, 2009, 94, .	1.5	21
70	Mechanical Removal and Rescreening of Local Screening Charges at Ferroelectric Surfaces. Physical Review Applied, 2015, 3, .	1.5	21
71	Atomic layer deposition of environmentally benign SnTiOx as a potential ferroelectric material. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, .	0.9	21
72	Size effects of micro-pattern on lithium metal surface on the electrochemical performance of lithium metal secondary batteries. Journal of Power Sources, 2018, 408, 136-142.	4.0	20

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73	Bipolar resistance switching in Pt/CuOx/Pt via local electrochemical reduction. Applied Physics Letters, 2014, 104, .	1.5	19
74	Effects of vinylene carbonate and 1,3-propane sultone on high-rate cycle performance and surface properties of high-nickel layered oxide cathodes. Materials Research Bulletin, 2020, 132, 111008.	2.7	19
75	Visualization of magnetic domain structure changes induced by interfacial strain in CoFe <sub>2</sub> O <sub>4</sub> /BaTiO <sub>3</sub> heterostructures. Journal Physics D: Applied Physics, 2013, 46, 055001.	1.3	18
76	Coupled Lattice Polarization and Ferromagnetism in Multiferroic NiTiO <sub>3</sub> Thin Films. ACS Applied Materials & Interfaces, 2017, 9, 21879-21890.	4.0	18
77	Elucidating the Polymeric Binder Distribution within Lithiumâ€lon Battery Electrodes Using SAICAS. ChemPhysChem, 2018, 19, 1627-1634.	1.0	18
78	Selective current collecting design for spring-type energy harvesters. RSC Advances, 2015, 5, 10662-10666.	1.7	17
79	Re-entrant relaxor ferroelectricity of methylammonium lead iodide. Current Applied Physics, 2016, 16, 1603-1606.	1.1	17
80	Membrane crystallinity and fuel crossover in direct ethanol fuel cells with Nafion composite membranes containing phosphotungstic acid. Journal of Materials Science, 2017, 52, 2400-2412.	1.7	17
81	Termination and hydration of forsteritic olivine (0 1 0) surface. Geochimica Et Cosmochimica Acta, 2014, 145, 268-280.	1.6	16
82	Insights into Lithium Surface: Stable Cycling by Controlled 10 μm Deep Surface Relief, Reinterpreting the Natural Surface Defect on Lithium Metal Anode. ACS Applied Energy Materials, 2019, 2, 5656-5664.	2.5	16
83	Effects of membrane thickness on the performance of ionic polymer–metal composite actuators. RSC Advances, 2019, 9, 14621-14626.	1.7	16
84	Low-Temperature Growth of Ferroelectric Hf <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> Thin Films Assisted by Deep Ultraviolet Light Irradiation. ACS Applied Electronic Materials, 2021, 3, 1244-1251.	2.0	16
85	Elastic relaxation and correlation of local strain gradients with ferroelectric domains in (001) BiFeO3 nanostructures. Applied Physics Letters, 2011, 99, 052902.	1.5	15
86	Visualization and manipulation of meta-stable polarization variants in multiferroic materials. AIP Advances, 2013, 3, .	0.6	15
87	Visualization of three dimensional domain structures in ferroelectric PbTiO3 nanotubes. Applied Physics Letters, 2013, 103, .	1.5	15
88	Tuning piezoelectric properties through epitaxy of La2Ti2O7 and related thin films. Scientific Reports, 2018, 8, 3037.	1.6	15
89	Integration of piezoelectric aluminum nitride and ultrananocrystalline diamond films for implantable biomedical microelectromechanical devices. Applied Physics Letters, 2013, 102, .	1.5	14
90	Charge collection kinetics on ferroelectric polymer surface using charge gradient microscopy. Scientific Reports, 2016, 6, 25087.	1.6	14

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91	Effects of NH4F and distilled water on structure of pores in TiO2 nanotube arrays. Scientific Reports, 2018, 8, 12487.	1.6	14
92	Selfâ€Assembled Room Temperature Multiferroic BiFeO <sub>3</sub> â€LiFe <sub>5</sub> O <sub>8</sub> Nanocomposites. Advanced Functional Materials, 2020, 30, 1906849.	7.8	14
93	Effects of Self-Assembled Monolayer and PFPE Lubricant on Wear Characteristics of Flat Silicon Tips. Tribology Letters, 2009, 34, 61-73.	1.2	13
94	Effect of deposition temperature of TiO2 on the piezoelectric property of PbTiO3 film grown by PbO gas phase reaction sputtering. Journal of Applied Physics, 2010, 107, 104112.	1.1	13
95	Nanoscale ferroelectric switching behavior at charged domain boundaries studied by angle-resolved piezoresponse force microscopy. Applied Physics Letters, 2011, 99, .	1.5	13
96	Flexible piezoelectric liquid volume sensor. Sensors and Actuators A: Physical, 2018, 276, 219-225.	2.0	13
97	Intact Crystalline Semiconducting Graphene Nanoribbons from Unzipping Nitrogen-Doped Carbon Nanotubes. ACS Applied Materials & Interfaces, 2019, 11, 38006-38015.	4.0	13
98	Microstructural evolution and mechanical properties of atmospheric plasma sprayed Y2O3 coating with state of in-flight particle. Ceramics International, 2021, 47, 3853-3866.	2.3	13
99	Segmentation of experimental datasets via convolutional neural networks trained on phase field simulations. Acta Materialia, 2021, 214, 116990.	3.8	13
100	Surface potential of ferroelectric domain investigated by kelvin force microscopy. Journal of Electroceramics, 2006, 17, 185-188.	0.8	12
101	Direct observation of fatigue in epitaxially grown Pb(Zr,Ti)O3 thin films using second harmonic piezoresponse force microscopy. Applied Physics Letters, 2011, 99, .	1.5	12
102	Structure-property relationships in self-assembled metalorganic chemical vapor deposition–grown CoFe2O4–PbTiO3 multiferroic nanocomposites using three-dimensional characterization. Journal of Applied Physics, 2011, 110, 034103.	1.1	12
103	Fabrication of Highly Ordered and Wellâ€Aligned PbTiO <sub>3</sub> /TiN Core–Shell Nanotube Arrays. Small, 2015, 11, 3750-3754.	5.2	12
104	Quantitative Observation of Threshold Defect Behavior in Memristive Devices with <i>Operando</i> X-ray Microscopy. ACS Nano, 2018, 12, 4938-4945.	7.3	12
105	Fabrication of Atomic Force Microscope Probe with Low Spring Constant Using SU-8 Photoresist. Japanese Journal of Applied Physics, 2003, 42, L1171-L1174.	0.8	11
106	Hierarchically Self-Assembled Block Copolymer Blends for Templating Hollow Phase-Change Nanostructures with an Extremely Low Switching Current. Chemistry of Materials, 2015, 27, 2673-2677.	3.2	11
107	Scanning probe-type data storage beyond hard disk drive and flash memory. MRS Bulletin, 2018, 43, 365-370.	1.7	11
108	Roomâ€ŧemperature multiferroicity in NiFe <sub>2</sub> O <sub>4</sub> and its magnetoelectric coupling intensified through defect engineering. Journal of the American Ceramic Society, 2021, 104, 6384-6392.	1.9	11

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109	A simulation model for thickness profile of the film deposited using planar circular type magnetron sputtering sources. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1996, 14, 2721-2727.	0.9	10
110	Simulation and fabrication of attenuated phase-shifting masks: CrF_x. Applied Optics, 1997, 36, 7247.	2.1	10
111	Interfacial stability of ultrathin films of magnetite Fe3O4 (111) on Al2O3(001) grown by ozone-assisted molecular-beam epitaxy. Applied Physics Letters, 2017, 110, .	1.5	10
112	Piezoelectric Materials for Medical Applications. , 0, , .		10
113	Nanoscale effects of beverages on enamel surface of human teeth: An atomic force microscopy study. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 110, 103930.	1.5	10
114	Unraveling the State of Charge-Dependent Electronic and Ionic Structure–Property Relationships in NCM622 Cells by Multiscale Characterization. ACS Applied Energy Materials, 2022, 5, 1731-1742.	2.5	10
115	Effects of gas ring position and mesh introduction on film quality and thickness uniformity. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1997, 45, 98-101.	1.7	9
116	Electron holography study for two-dimensional dopant profile measurement with specimens prepared by backside ion milling. Journal of Electron Microscopy, 2007, 57, 13-18.	0.9	9
117	Observation of mechanical fracture and corresponding domain structure changes of polycrystalline PbTiO <sub>3</sub> nanotubes. Physica Status Solidi - Rapid Research Letters, 2011, 5, 59-61.	1.2	9
118	Effects of surface morphology on retention loss of ferroelectric domains in poly(vinylidenefluoride- <i>co</i> -trifluoroethylene) thin films. Applied Physics Letters, 2011, 99, .	1.5	9
119	Quantitative measurement of in-plane cantilever torsion for calibrating lateral piezoresponse force microscopy. Review of Scientific Instruments, 2011, 82, 113706.	0.6	9
120	Effect of defects on reaction of NiO surface with Pb-contained solution. Scientific Reports, 2017, 7, 44805.	1.6	9
121	Ferroelectric Domain Studies of Patterned (001) BiFeO3 by Angle-Resolved Piezoresponse Force Microscopy. Scientific Reports, 2018, 8, 203.	1.6	9
122	Astrocyteâ€Encapsulated Hydrogel Microfibers Enhance Neuronal Circuit Generation. Advanced Healthcare Materials, 2020, 9, 1901072.	3.9	9
123	(111)-oriented Sn-doped BaTiO3 epitaxial thin films for ultrahigh energy density capacitors. Ceramics International, 2021, 47, 26856-26862.	2.3	9
124	Attenuated phase-shifting masks of chromium aluminum oxide. Applied Optics, 1998, 37, 4254.	2.1	8
125	Formation of ferroelectric nano-domains using scanning force microscopy for the future application of memory devices. Integrated Ferroelectrics, 2000, 31, 163-171.	0.3	8
126	Piezoelectric hysteresis measurement using atomic force microscopy. Integrated Ferroelectrics, 2001, 38, 31-38.	0.3	8

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127	QUARTZ CRYSTAL RESONATOR BASED SCANNING PROBE MICROSCOPY. Modern Physics Letters B, 2005, 19, 1303-1322.	1.0	8
128	Servo and tracking algorithm for a probe storage system. IEEE Transactions on Magnetics, 2005, 41, 855-859.	1.2	8
129	SURFACE POTENTIAL RELAXATION OF FERROELECTRIC DOMAIN INVESTIGATED BY KELVIN PROBE FORCE MICROSCOPY. Integrated Ferroelectrics, 2006, 85, 25-30.	0.3	8
130	Nanoscale bit formation in highly (111)-oriented ferroelectric thin films deposited on glass substrates for high-density storage media. Nanotechnology, 2011, 22, 245705.	1.3	8
131	Fabrication of vertically aligned ferroelectric polyvinylidene fluoride mesoscale rod arrays. Journal of Applied Polymer Science, 2013, 130, 3842-3848.	1.3	8
132	The effects of an alkaline treatment on the ferroelectric properties of poly(vinylidene fluoride) Tj ETQq0 0 0 rgBT	/Oyerlock	10 Tf 50 542
133	The Hydration Structure at Yttria-Stabilized Cubic Zirconia (110)-Water Interface with Sub-Ãngström Resolution. Scientific Reports, 2016, 6, 27916.	1.6	8
134	Visualization of Functional Components in a Lithium Silicon Titanium Phosphate–Natural Graphite Composite Anode. ACS Applied Energy Materials, 2020, 3, 3253-3261.	2.5	8
135	Multiâ€Step Chemical Solution Depositionâ€Annealing Process Toward Wakeâ€Up Free Ferroelectricity in Y:HfO <sub>2</sub> Films. Advanced Materials Interfaces, 2021, 8, 2100907.	1.9	8
136	Microscopic observation of "region by region―polarisation domains freezing during fatigue of the Pt-PZT-Pt system. Integrated Ferroelectrics, 1998, 22, 237-244.	0.3	7
137	Memory effect of a single-walled carbon nanotube on nitride-oxide structure under various bias conditions. Applied Physics Letters, 2010, 96, .	1.5	7
138	Nanoscale retentionâ€loss dynamics of polycrystalline PbTiO <sub>3</sub> nanotubes. Physica Status Solidi - Rapid Research Letters, 2011, 5, 289-291.	1.2	7
139	Optical property simulation of single-layer halftone phaseshifting masks for DUV microlithography. Semiconductor Science and Technology, 1996, 11, 1450-1455.	1.0	6
140	Formation and process optimization of scanning resistive probe. Journal of Vacuum Science & Technology B, 2006, 24, 2417.	1.3	6
141	Materials and Devices for MEMS Piezoelectric Energy Harvesting. , 2013, , 417-435.		6
142	Nanoscience and Nanotechnology at the Korea Advanced Institute of Science and Technology. ACS Nano, 2019, 13, 3741-3745.	7.3	6
143	Pseudo wastewater treatment by combining adsorption and phytoaccumulation on the <i>Acrostichum aureum</i> Linn. plant/activated carbon system. International Journal of Phytoremediation, 2021, 23, 300-306.	1.7	6
144	Quantitative Measurement of Li-Ion Concentration and Diffusivity in Solid-State Electrolyte. ACS Applied Energy Materials, 2021, 4, 784-790.	2.5	6

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145	Investigation on application of chromium-based materials to attenuated phase-shift masks for DUV exposure. , 1996, , .		5
146	Single-layer halftone phase-shifting masks for DUV microlithography: optical property simulation and chromium compound film preparation. Applied Surface Science, 1997, 113-114, 680-684.	3.1	5
147	Effect of metal–insulator–semiconductor structure derived space charge field on the tip vibration signal in electrostatic force microscopy. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2000, 18, 2688.	1.6	5
148	GRAIN/DOMAIN INTERACTION ANTD ITS EFFECT ON BIT FORMATION IN FERROELECTRIC FILMS. Integrated Ferroelectrics, 2006, 78, 255-260.	0.3	5
149	Fabrication and Characterization of Nanoscale Ferroelectric Honeycombs. Journal of the American Ceramic Society, 2013, 96, 1355-1358.	1.9	5
150	Synthesis, Characterization, Properties, and Applications of Nanosized Ferroelectric, Ferromagnetic, or Multiferroic Materials. Journal of Nanomaterials, 2015, 2015, 1-2.	1.5	5
151	Orientation-Dependent Hydration Structures at Yttria-Stabilized Cubic Zirconia Surfaces. Journal of Physical Chemistry C, 2016, 120, 29089-29097.	1.5	5
152	Deciphering osteoconductive surface charge effects in sintered hydroxyapatite via piezoresponse force microscopy. Journal of Applied Physics, 2021, 129, .	1.1	5
153	Resistive Probe Storage: Read/Write Mechanism. , 2007, , 943-973.		5
154	Largeâ€Area Uniform 1â€nmâ€Level Amorphous Carbon Layers from 3D Conformal Polymer Brushes. A "Nextâ€Generation―Cu Diffusion Barrier?. Advanced Materials, 2022, 34, e2110454.	11.1	5
155	Nanoscale Visualization of the Electron Conduction Channel in the SiO/Graphite Composite Anode. ACS Applied Materials & Interfaces, 2022, 14, 30639-30648.	4.0	5
156	Effects of Texturing and Microbridge Length on the IR Responsivity ofYBa2Cu3OxThin Film. Japanese Journal of Applied Physics, 1996, 35, 1716-1719.	0.8	4
157	Observation of domain nucleation and growth during switching process. Ferroelectrics, 1999, 223, 143-148.	0.3	4
158	<title>Formation and observation of ferroelectric domains in PbZr<formula><inf><roman>1-x </roman></inf></formula>Ti<formula><inf><roman>x</roman></inf></formula>O<formula><inf><roman>3(PZT) thin films using atomic force microscopy</roman></inf></formula></title> . , 1999, , .	oman> <td>nf&gt;4/formula:</td>	nf>4/formula:
159	Polarization Switching and Fatigue of Ferroelectric Thin Films Studied By PFM. , 2004, , 111-131.		4
160	Characterization of Sensitivity and Resolution of Silicon Resistive Probe. Japanese Journal of Applied Physics, 2008, 47, 1717-1722.	0.8	4
161	Effect of stress state on the domain configuration and switching behavior in ferroelectric thin films. RSC Advances, 2012, 2, 11901.	1.7	4
162	Synthesis of Ferroelectric Lead Titanate Nanohoneycomb Arrays via Lead Supplement Process. Journal of the American Ceramic Society, 2016, 99, 2221-2225.	1.9	4

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163	Tunable in-plane thermal conductivity of a single PEDOT:PSS nanotube. Nanoscale, 2020, 12, 8701-8705.	2.8	4
164	Ferroelectric Probe Storage Devices. , 2014, , 259-273.		4
165	Large electrocaloric effect with high thermal and electric field cycling stability in solution-processed Y:HfO <sub>2</sub> thin films. Journal of Materials Chemistry A, 2022, 10, 9960-9970.	5.2	4
166	Water-induced degradation of chromium fluoride films. Thin Solid Films, 1998, 324, 292-299.	0.8	3
167	Stability and read/write characteristics of nano ferroelectric domains. Ferroelectrics, 2001, 259, 289-298.	0.3	3
168	New positional error detection algorithm for a probe-based data storage. , 0, , .		3
169	Effect of nucleation time on bending response of ionic polymer–metal composite actuators. Electrochimica Acta, 2013, 108, 547-553.	2.6	3
170	Flexible 3D Electrodes of Free-Standing TiN Nanotube Arrays Grown by Atomic Layer Deposition with a Ti Interlayer as an Adhesion Promoter. Nanomaterials, 2020, 10, 409.	1.9	3
171	Ferroelectric Polymer PVDF-Based Nanogenerator. , O, , .		3
172	Design and Analysis of the Position Detection Algorithm for a Probe Storage. IEEE Sensors Journal, 2006, 6, 1010-1015.	2.4	2
173	Microscopic study of polydopamine modified BaTiO3/poly(vinylidene fluoride-trifluoroethylene) nanocomposite films. Thin Solid Films, 2019, 682, 121-125.	0.8	2
174	Piezoelectric/Triboelectric Nanogenerators for Biomedical Applications. , 0, , .		2
175	Effect of Hydrogen on Hafnium Zirconium Oxide Fabricated by Atomic Layer Deposition Using H <sub>2</sub> O <sub>2</sub> Oxidant. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100020.	1.2	2
176	Microwave response of YBa2Cu3O7â^'xgrain boundary junction. Journal of Applied Physics, 1995, 77, 2193-2195.	1.1	1
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