

# Seungbum Hong

## 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.

181  
papers

4,852  
citations

32  
h-index

64  
g-index

199  
ext. papers

5,473  
ext. citations

5.7  
avg, IF

5.39  
L-index

#	Paper	IF	Citations
181	Large-area Uniform 1-nm-level Amorphous Carbon Layers from 3D Conformal Polymer Brushes. A "Next-generation" Cu Diffusion Barrier?. <i>Advanced Materials</i> , <b>2022</b> , e2110454	24	1
180	Non-oxidized bare copper nanoparticles with surface excess electrons in air.. <i>Nature Nanotechnology</i> , <b>2022</b> ,	28.7	2
179	Machine learning assisted synthesis of lithium-ion batteries cathode materials. <i>Nano Energy</i> , <b>2022</b> , 98, 107214	17.1	2
178	Large-Area Uniform 1-nm-Level Amorphous Carbon Layers from 3D Conformal Polymer Brushes. A Next-Generation[Cu Diffusion Barrier? (Adv. Mater. 15/2022). <i>Advanced Materials</i> , <b>2022</b> , 34, 2270113	24	
177	Deciphering osteoconductive surface charge effects in sintered hydroxyapatite via piezoresponse force microscopy. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 094902	2.5	0
176	Effect of Hydrogen on Hafnium Zirconium Oxide Fabricated by Atomic Layer Deposition Using H <sub>2</sub> O <sub>2</sub> Oxidant. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2021</b> , 15, 2100020	2.5	1
175	Room-temperature multiferroicity in NiFe <sub>2</sub> O <sub>4</sub> and its magnetoelectric coupling intensified through defect engineering. <i>Journal of the American Ceramic Society</i> , <b>2021</b> , 104, 6384	3.8	3
174	Pseudo wastewater treatment by combining adsorption and phytoaccumulation on the Linn. plant/activated carbon system. <i>International Journal of Phytoremediation</i> , <b>2021</b> , 23, 300-306	3.9	0
173	Microstructural evolution and mechanical properties of atmospheric plasma sprayed Y <sub>2</sub> O <sub>3</sub> coating with state of in-flight particle. <i>Ceramics International</i> , <b>2021</b> , 47, 3853-3866	5.1	3
172	Quantitative Measurement of Li-Ion Concentration and Diffusivity in Solid-State Electrolyte. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 784-790	6.1	3
171	Understanding the Selective Deposition of Li Metal on Nonuniform Electrode Surfaces Using Atomic Force Microscopy. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 020534	3.9	
170	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. <i>ACS Applied Electronic Materials</i> , <b>2021</b> , 3, 1244-1251	4	5
169	Reducing Time to Discovery: Materials and Molecular Modeling, Imaging, Informatics, and Integration. <i>ACS Nano</i> , <b>2021</b> , 15, 3971-3995	16.7	11
168	Single frequency vertical piezoresponse force microscopy. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 051101	2.5	9
167	Multi-Step Chemical Solution Deposition-Annealing Process Toward Wake-Up Free Ferroelectricity in Y:HfO <sub>2</sub> Films. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2100907	4.6	2
166	Segmentation of experimental datasets via convolutional neural networks trained on phase field simulations. <i>Acta Materialia</i> , <b>2021</b> , 214, 116990	8.4	2
165	(111)-oriented Sn-doped BaTiO <sub>3</sub> epitaxial thin films for ultrahigh energy density capacitors. <i>Ceramics International</i> , <b>2021</b> , 47, 26856-26862	5.1	3

164	Unveiling Predominant Air-Stable Organotin Bromide Perovskite toward Mechanical Energy Harvesting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 16469-16480	9.5	23
163	Visualization of Functional Components in a Lithium Silicon Titanium Phosphate Natural Graphite Composite Anode. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 3253-3261	6.1	5
162	Flexible 3D Electrodes of Free-Standing TiN Nanotube Arrays Grown by Atomic Layer Deposition with a Ti Interlayer as an Adhesion Promoter. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	1
161	Nanoscale effects of beverages on enamel surface of human teeth: An atomic force microscopy study. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2020</b> , 110, 103930	4.1	2
160	Ferroelectric Polymer PVDF-Based Nanogenerator <b>2020</b> ,		3
159	Astrocyte-Encapsulated Hydrogel Microfibers Enhance Neuronal Circuit Generation. <i>Advanced Healthcare Materials</i> , <b>2020</b> , 9, e1901072	10.1	5
158	Tunable in-plane thermal conductivity of a single PEDOT:PSS nanotube. <i>Nanoscale</i> , <b>2020</b> , 12, 8701-8705	7.7	3
157	Cost-effective and strongly integrated fabric-based wearable piezoelectric energy harvester. <i>Nano Energy</i> , <b>2020</b> , 75, 104992	17.1	22
156	Ferroelectric Domain Wall Motion in Freestanding Single-Crystal Complex Oxide Thin Film. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907036	24	16
155	Breaking the elastic limit of piezoelectric ceramics using nanostructures: A case study using ZnO. <i>Nano Energy</i> , <b>2020</b> , 78, 105259	17.1	13
154	Effects of vinylene carbonate and 1,3-propane sultone on high-rate cycle performance and surface properties of high-nickel layered oxide cathodes. <i>Materials Research Bulletin</i> , <b>2020</b> , 132, 111008	5.1	9
153	Thermally assisted nanotransfer printing with sub-20-nm resolution and 8-inch wafer scalability. <i>Science Advances</i> , <b>2020</b> , 6, eabb6462	14.3	15
152	Light-Driven Piezo- and Triboelectricity in Organic-Inorganic Metal Trihalide Perovskite toward Mechanical Energy Harvesting and Self-powered Sensor Application. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 50472-50483	9.5	20
151	Magnetic Modulation by Oxygen Vacancies in Epitaxial Ga <sub>0.5</sub> Fe <sub>1.5</sub> O <sub>3</sub> . <i>Journal of the Korean Physical Society</i> , <b>2020</b> , 77, 1204-1209	0.6	
150	Self-Assembled Room Temperature Multiferroic BiFeO <sub>3</sub> -LiFe <sub>5</sub> O <sub>8</sub> Nanocomposites. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1906849	15.6	10
149	Intact Crystalline Semiconducting Graphene Nanoribbons from Unzipping Nitrogen-Doped Carbon Nanotubes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 38006-38015	9.5	9
148	Effect of the dielectric constant of a liquid electrolyte on lithium metal anodes. <i>Electrochimica Acta</i> , <b>2019</b> , 300, 299-305	6.7	15
147	Effects of membrane thickness on the performance of ionic polymer-metal composite actuators.. <i>RSC Advances</i> , <b>2019</b> , 9, 14621-14626	3.7	11

146	Microscopic study of polydopamine modified BaTiO <sub>3</sub> /poly(vinylidene fluoride-trifluoroethylene) nanocomposite films. <i>Thin Solid Films</i> , <b>2019</b> , 682, 121-125	2.2	2
145	Insights into Lithium Surface: Stable Cycling by Controlled 10 nm Deep Surface Relief, Reinterpreting the Natural Surface Defect on Lithium Metal Anode. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 5656-5664	6.1	11
144	An eco-friendly flexible piezoelectric energy harvester that delivers high output performance is based on lead-free MASnI <sub>3</sub> films and MASnI <sub>3</sub> -PVDF composite films. <i>Nano Energy</i> , <b>2019</b> , 57, 911-923	17.1	58
143	Intrinsically stretchable multi-functional fiber with energy harvesting and strain sensing capability. <i>Nano Energy</i> , <b>2019</b> , 55, 348-353	17.1	57
142	Room-temperature relaxor ferroelectricity and photovoltaic effects in tin titanate directly deposited on a silicon substrate. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	21
141	Elucidating the Polymeric Binder Distribution within Lithium-Ion Battery Electrodes Using SAICAS. <i>ChemPhysChem</i> , <b>2018</b> , 19, 1627-1634	3.2	9
140	Tuning piezoelectric properties through epitaxy of LaTiO and related thin films. <i>Scientific Reports</i> , <b>2018</b> , 8, 3037	4.9	10
139	Effect of nanopatterning on mechanical properties of Lithium anode. <i>Scientific Reports</i> , <b>2018</b> , 8, 2514	4.9	28
138	Ferroelectric Domain Studies of Patterned (001) BiFeO by Angle-Resolved Piezoresponse Force Microscopy. <i>Scientific Reports</i> , <b>2018</b> , 8, 203	4.9	6
137	Enhanced piezoelectric output performance via control of dielectrics in Fe <sup>2+</sup> -incorporated MAPbI <sub>3</sub> perovskite thin films: Flexible piezoelectric generators. <i>Nano Energy</i> , <b>2018</b> , 49, 247-256	17.1	47
136	Flexible piezoelectric liquid volume sensor. <i>Sensors and Actuators A: Physical</i> , <b>2018</b> , 276, 219-225	3.9	10
135	Quantitative Observation of Threshold Defect Behavior in Memristive Devices with Operando X-ray Microscopy. <i>ACS Nano</i> , <b>2018</b> , 12, 4938-4945	16.7	6
134	Graphene-based materials and structures for energy harvesting with fluids – A review. <i>Materials Today</i> , <b>2018</b> , 21, 1019-1041	21.8	50
133	Scanning probe-type data storage beyond hard disk drive and flash memory. <i>MRS Bulletin</i> , <b>2018</b> , 43, 365-370	3.7	11
132	Correlative SPM/TEM Investigation of the Electrochemical Deposition of Lithium Metal. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 1524-1525	0.5	
131	Size effects of micro-pattern on lithium metal surface on the electrochemical performance of lithium metal secondary batteries. <i>Journal of Power Sources</i> , <b>2018</b> , 408, 136-142	8.9	16
130	Piezoelectric Materials for Medical Applications <b>2018</b> ,		7
129	Effects of NHF and distilled water on structure of pores in TiO nanotube arrays. <i>Scientific Reports</i> , <b>2018</b> , 8, 12487	4.9	8

128	Modulation of oxygen vacancies assisted ferroelectric and photovoltaic properties of (Nd, V) co-doped BiFeO <sub>3</sub> thin films. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 275303	3	16
127	First Demonstration of a Logic-Process Compatible Junctionless Ferroelectric FinFET Synapse for Neuromorphic Applications. <i>IEEE Electron Device Letters</i> , <b>2018</b> , 39, 1445-1448	4.4	81
126	Interfacial stability of ultrathin films of magnetite Fe <sub>3</sub> O <sub>4</sub> (111) on Al <sub>2</sub> O <sub>3</sub> (001) grown by ozone-assisted molecular-beam epitaxy. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 021601	3.4	9
125	Membrane crystallinity and fuel crossover in direct ethanol fuel cells with Nafion composite membranes containing phosphotungstic acid. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 2400-2412	4.3	10
124	Coupled Lattice Polarization and Ferromagnetism in Multiferroic NiTiO Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 21879-21890	9.5	16
123	Effect of defects on reaction of NiO surface with Pb-contained solution. <i>Scientific Reports</i> , <b>2017</b> , 7, 44805.9	1.9	6
122	Zinc Adsorption and Hydration Structures at Yttria-Stabilized Zirconia Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 21305-21310	3.8	1
121	Long-range Stripe Nanodomains in Epitaxial (110) BiFeO Thin Films on (100) NdGaO Substrate. <i>Scientific Reports</i> , <b>2017</b> , 7, 4857	4.9	16
120	Synthesis and Application of Ferroelectric Poly(Vinylidene Fluoride-co-Trifluoroethylene) Films using Electrophoretic Deposition. <i>Scientific Reports</i> , <b>2016</b> , 6, 36176	4.9	19
119	The Hydration Structure at Yttria-Stabilized Cubic Zirconia (110)-Water Interface with Sub-Ångström Resolution. <i>Scientific Reports</i> , <b>2016</b> , 6, 27916	4.9	7
118	Flexible ferroelectric organic crystals. <i>Nature Communications</i> , <b>2016</b> , 7, 13108	17.4	142
117	Screening mechanisms at polar oxide heterointerfaces. <i>Reports on Progress in Physics</i> , <b>2016</b> , 79, 076501	14.4	56
116	Imaging Ferroelectric Domains and Domain Walls Using Charge Gradient Microscopy: Role of Screening Charges. <i>ACS Nano</i> , <b>2016</b> , 10, 2568-74	16.7	20
115	Visualization of ion transport in Nafion using electrochemical strain microscopy. <i>Chemical Communications</i> , <b>2016</b> , 52, 831-4	5.8	18
114	Synthesis of Ferroelectric Lead Titanate Nanohoneycomb Arrays via Lead Supplement Process. <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 2221-2225	3.8	3
113	Atomic layer deposition of environmentally benign SnTiO <sub>x</sub> as a potential ferroelectric material. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2016</b> , 34, 01A119	2.9	18
112	Charge collection kinetics on ferroelectric polymer surface using charge gradient microscopy. <i>Scientific Reports</i> , <b>2016</b> , 6, 25087	4.9	13
111	Orientation-Dependent Hydration Structures at Yttria-Stabilized Cubic Zirconia Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 29089-29097	3.8	3

110	Re-entrant relaxor ferroelectricity of methylammonium lead iodide. <i>Current Applied Physics</i> , <b>2016</b> , 16, 1603-1606	2.6	12
109	Fabrication of Highly Ordered and Well-Aligned PbTiO <sub>3</sub> /TiN Core-Shell Nanotube Arrays. <i>Small</i> , <b>2015</b> , 11, 3750-4	11	11
108	Hierarchically Self-Assembled Block Copolymer Blends for Templating Hollow Phase-Change Nanostructures with an Extremely Low Switching Current. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 2673-2677	9.6	10
107	Selective current collecting design for spring-type energy harvesters. <i>RSC Advances</i> , <b>2015</b> , 5, 10662-10666	6.7	15
106	Mechanical Removal and Rescreening of Local Screening Charges at Ferroelectric Surfaces. <i>Physical Review Applied</i> , <b>2015</b> , 3,	4.3	18
105	Vertically aligned P(VDF-TrFE) core-shell structures on flexible pillar arrays. <i>Scientific Reports</i> , <b>2015</b> , 5, 10728	4.9	36
104	Effect of Ag nanoparticle concentration on the electrical and ferroelectric properties of Ag/P(VDF-TrFE) composite films. <i>Scientific Reports</i> , <b>2015</b> , 5, 13209	4.9	57
103	The effects of an alkaline treatment on the ferroelectric properties of poly(vinylidene fluoride trifluoroethylene) films. <i>Electronic Materials Letters</i> , <b>2015</b> , 11, 586-591	2.9	7
102	Synthesis, Characterization, Properties, and Applications of Nanosized Ferroelectric, Ferromagnetic, or Multiferroic Materials. <i>Journal of Nanomaterials</i> , <b>2015</b> , 2015, 1-2	3.2	3
101	Nanotube Arrays: Fabrication of Highly Ordered and Well-Aligned PbTiO <sub>3</sub> /TiN CoreShell Nanotube Arrays (Small 31/2015). <i>Small</i> , <b>2015</b> , 11, 3722-3722	11	
100	Enhancement of local piezoresponse in polymer ferroelectrics via nanoscale control of microstructure. <i>ACS Nano</i> , <b>2015</b> , 9, 1809-19	16.7	53
99	Charge gradient microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 6566-9	11.5	37
98	X-ray irradiation induced reversible resistance change in Pt/TiO <sub>2</sub> /Pt cells. <i>ACS Nano</i> , <b>2014</b> , 8, 1584-9	16.7	27
97	Tunable and rapid self-assembly of block copolymers using mixed solvent vapors. <i>Nanoscale</i> , <b>2014</b> , 6, 15216-21	7.7	20
96	Bipolar resistance switching in Pt/CuOx/Pt via local electrochemical reduction. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 242902	3.4	16
95	Termination and hydration of forsteritic olivine (0 1 0) surface. <i>Geochimica Et Cosmochimica Acta</i> , <b>2014</b> , 145, 268-280	5.5	11
94	Polymer piezoelectric energy harvesters for low wind speed. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 012902	3.4	27
93	Ferroelectric Probe Storage Devices <b>2014</b> , 259-273		4

92	Effect of nucleation time on bending response of ionic polymer-metal composite actuators. <i>Electrochimica Acta</i> , <b>2013</b> , 108, 547-553	6.7	3
91	Visualization and manipulation of meta-stable polarization variants in multiferroic materials. <i>AIP Advances</i> , <b>2013</b> , 3, 042114	1.5	13
90	A spring-type piezoelectric energy harvester. <i>RSC Advances</i> , <b>2013</b> , 3, 3194	3.7	28
89	Integration of piezoelectric aluminum nitride and ultrananocrystalline diamond films for implantable biomedical microelectromechanical devices. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 104101	3.4	9
88	Materials and Devices for MEMS Piezoelectric Energy Harvesting <b>2013</b> , 417-435		6
87	Visualization of magnetic domain structure changes induced by interfacial strain in CoFe <sub>2</sub> O <sub>4</sub> /BaTiO <sub>3</sub> heterostructures. <i>Journal Physics D: Applied Physics</i> , <b>2013</b> , 46, 055001	3	16
86	Imaging local polarization in ferroelectric thin films by coherent x-ray Bragg projection ptychography. <i>Physical Review Letters</i> , <b>2013</b> , 110, 177601	7.4	59
85	Fabrication and Characterization of Nanoscale Ferroelectric Honeycombs. <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 1355-1358	3.8	5
84	Visualization of three dimensional domain structures in ferroelectric PbTiO <sub>3</sub> nanotubes. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 022902	3.4	15
83	Fabrication of vertically aligned ferroelectric polyvinylidene fluoride mesoscale rod arrays. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 130, n/a-n/a	2.9	5
82	Effect of stress state on the domain configuration and switching behavior in ferroelectric thin films. <i>RSC Advances</i> , <b>2012</b> , 2, 11901	3.7	4
81	Magnetic interactions and reversal of artificial square spin ices. <i>New Journal of Physics</i> , <b>2012</b> , 14, 075028	2.9	20
80	Ambient effects on electric-field-induced local charge modification of TiO <sub>2</sub> . <i>Applied Physics Letters</i> , <b>2012</b> , 100, 022901	3.4	24
79	Observation of mechanical fracture and corresponding domain structure changes of polycrystalline PbTiO <sub>3</sub> nanotubes. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2011</b> , 5, 59-61	2.5	9
78	Nanoscale retention-loss dynamics of polycrystalline PbTiO <sub>3</sub> nanotubes. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2011</b> , 5, 289-291	2.5	7
77	High-resolution field effect sensing of ferroelectric charges. <i>Nano Letters</i> , <b>2011</b> , 11, 1428-33	11.5	37
76	Direct observation of fatigue in epitaxially grown Pb(Zr,Ti)O <sub>3</sub> thin films using second harmonic piezoresponse force microscopy. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 052904	3.4	11
75	Size effect of flexible proof mass on the mechanical behavior of micron-scale cantilevers for energy harvesting applications. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 243506	3.4	23

74	Elastic relaxation and correlation of local strain gradients with ferroelectric domains in (001) BiFeO <sub>3</sub> nanostructures. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 052902	3-4	13
73	Effects of surface morphology on retention loss of ferroelectric domains in poly(vinylidene fluoride-co-trifluoroethylene) thin films. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 092905	3-4	9
72	Quantitative measurement of in-plane cantilever torsion for calibrating lateral piezoresponse force microscopy. <i>Review of Scientific Instruments</i> , <b>2011</b> , 82, 113706	1-7	9
71	Structure-property relationships in self-assembled metalorganic chemical vapor deposition-grown CoFe <sub>2</sub> O <sub>4</sub> /PbTiO <sub>3</sub> multiferroic nanocomposites using three-dimensional characterization. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 034103	2-5	11
70	Nanoscale ferroelectric switching behavior at charged domain boundaries studied by angle-resolved piezoresponse force microscopy. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 142909	3-4	11
69	Nanoscale bit formation in highly (111)-oriented ferroelectric thin films deposited on glass substrates for high-density storage media. <i>Nanotechnology</i> , <b>2011</b> , 22, 245705	3-4	7
68	Effects of cantilever buckling on vector piezoresponse force microscopy imaging of ferroelectric domains in BiFeO <sub>3</sub> nanostructures. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 163101	3-4	49
67	Geometry- and size-dependence of electrical properties of metal contacts on semiconducting nanowires. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 094308	2-5	21
66	Three-dimensional ferroelectric domain imaging of epitaxial BiFeO <sub>3</sub> thin films using angle-resolved piezoresponse force microscopy. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 112907	3-4	47
65	Effect of local surface potential distribution on its relaxation in polycrystalline ferroelectric films. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 054103	2-5	24
64	Nanoscale domain growth dynamics of ferroelectric poly(vinylidene fluoride-co-trifluoroethylene) thin films. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 012908	3-4	45
63	Effect of deposition temperature of TiO <sub>2</sub> on the piezoelectric property of PbTiO <sub>3</sub> film grown by PbO gas phase reaction sputtering. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 104112	2-5	13
62	Memory effect of a single-walled carbon nanotube on nitride-oxide structure under various bias conditions. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 023101	3-4	6
61	Nanoscale piezoresponse of 70 nm poly(vinylidene fluoride-trifluoro-ethylene) films annealed at different temperatures. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2010</b> , 4, 94-96	2-5	24
60	Nanoscale piezoresponse studies of ferroelectric domains in epitaxial BiFeO <sub>3</sub> nanostructures. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 061619	2-5	37
59	Origin of surface potential change during ferroelectric switching in epitaxial PbTiO <sub>3</sub> thin films studied by scanning force microscopy. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 032907	3-4	87
58	Piezoresponse force microscopy studies of PbTiO <sub>3</sub> thin films grown via layer-by-layer gas phase reaction. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 092901	3-4	18
57	Effects of Self-Assembled Monolayer and PFPE Lubricant on Wear Characteristics of Flat Silicon Tips. <i>Tribology Letters</i> , <b>2009</b> , 34, 61-73	2-8	11



56	Characterization of Sensitivity and Resolution of Silicon Resistive Probe. <i>Japanese Journal of Applied Physics</i> , <b>2008</b> , 47, 1717-1722	1.4	4
55	Screen charge transfer by grounded tip on ferroelectric surfaces. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2008</b> , 2, 74-76	2.5	24
54	Electron holography study for two-dimensional dopant profile measurement with specimens prepared by backside ion milling. <i>Journal of Electron Microscopy</i> , <b>2008</b> , 57, 13-8		8
53	Nano-tribological characteristics of PZT thin film investigated by atomic force microscopy. <i>Surface and Coatings Technology</i> , <b>2007</b> , 201, 7983-7991	4.4	19
52	Injection charge assisted polarization reversal in ferroelectric thin films. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 072910	3.4	49
51	Local surface potential distribution in oriented ferroelectric thin films. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 052906	3.4	31
50	Resistive Probe Storage: Read/Write Mechanism <b>2007</b> , 943-973		3
49	Formation and process optimization of scanning resistive probe. <i>Journal of Vacuum Science &amp; Technology B</i> , <b>2006</b> , 24, 2417		6
48	Tip traveling and grain boundary effects in domain formation using piezoelectric force microscopy for probe storage applications. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 172909	3.4	21
47	GRAIN/DOMAIN INTERACTION ANTD ITS EFFECT ON BIT FORMATION IN FERROELECTRIC FILMS. <i>Integrated Ferroelectrics</i> , <b>2006</b> , 78, 255-260	0.8	4
46	Correlation between grain size and domain size distributions in ferroelectric media for probe storage applications. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 162907	3.4	21
45	SURFACE POTENTIAL RELAXATION OF FERROELECTRIC DOMAIN INVESTIGATED BY KELVIN PROBE FORCE MICROSCOPY. <i>Integrated Ferroelectrics</i> , <b>2006</b> , 85, 25-30	0.8	7
44	Design and Analysis of the Position Detection Algorithm for a Probe Storage. <i>IEEE Sensors Journal</i> , <b>2006</b> , 6, 1010-1015	4	2
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