

Seungbum Hong

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3672730/seungbum-hong-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Ferroelectric thin films: Review of materials, properties, and applications. <i>Journal of Applied Physics</i> , 2006 , 100, 051606	2.5	1262
180	Principle of ferroelectric domain imaging using atomic force microscope. <i>Journal of Applied Physics</i> , 2001 , 89, 1377-1386	2.5	263
179	Direct observation of region by region suppression of the switchable polarization (fatigue) in Pb(Zr,Ti)O ₃ thin film capacitors with Pt electrodes. <i>Applied Physics Letters</i> , 1998 , 72, 2763-2765	3.4	198
178	Flexible ferroelectric organic crystals. <i>Nature Communications</i> , 2016 , 7, 13108	17.4	142
177	High resolution study of domain nucleation and growth during polarization switching in Pb(Zr,Ti)O ₃ ferroelectric thin film capacitors. <i>Journal of Applied Physics</i> , 1999 , 86, 607-613	2.5	131
176	Origin of surface potential change during ferroelectric switching in epitaxial PbTiO ₃ thin films studied by scanning force microscopy. <i>Applied Physics Letters</i> , 2009 , 94, 032907	3.4	87
175	First Demonstration of a Logic-Process Compatible Junctionless Ferroelectric FinFET Synapse for Neuromorphic Applications. <i>IEEE Electron Device Letters</i> , 2018 , 39, 1445-1448	4.4	81
174	Quantitative analysis of the bit size dependence on the pulse width and pulse voltage in ferroelectric memory devices using atomic force microscopy. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2001 , 19, 818		69
173	Scanning resistive probe microscopy: Imaging ferroelectric domains. <i>Applied Physics Letters</i> , 2004 , 84, 1734-1736	3.4	61
172	Imaging local polarization in ferroelectric thin films by coherent x-ray Bragg projection ptychography. <i>Physical Review Letters</i> , 2013 , 110, 177601	7.4	59
171	An eco-friendly flexible piezoelectric energy harvester that delivers high output performance is based on lead-free MASnI ₃ films and MASnI ₃ -PVDF composite films. <i>Nano Energy</i> , 2019 , 57, 911-923	17.1	58
170	Effect of Ag nanoparticle concentration on the electrical and ferroelectric properties of Ag/P(VDF-TrFE) composite films. <i>Scientific Reports</i> , 2015 , 5, 13209	4.9	57
169	Read/write mechanisms and data storage system using atomic force microscopy and MEMS technology. <i>Ultramicroscopy</i> , 2002 , 91, 103-10	3.1	57
168	Intrinsically stretchable multi-functional fiber with energy harvesting and strain sensing capability. <i>Nano Energy</i> , 2019 , 55, 348-353	17.1	57
167	Screening mechanisms at polar oxide heterointerfaces. <i>Reports on Progress in Physics</i> , 2016 , 79, 076501	14.4	56
166	Enhancement of local piezoresponse in polymer ferroelectrics via nanoscale control of microstructure. <i>ACS Nano</i> , 2015 , 9, 1809-19	16.7	53
165	Effect of cantilever-sample interaction on piezoelectric force microscopy. <i>Applied Physics Letters</i> , 2002 , 80, 1453-1455	3.4	53

164	Graphene-based materials and structures for energy harvesting with fluids □A review. <i>Materials Today</i> , 2018 , 21, 1019-1041	21.8	50
163	Effects of cantilever buckling on vector piezoresponse force microscopy imaging of ferroelectric domains in BiFeO3 nanostructures. <i>Applied Physics Letters</i> , 2010 , 96, 163101	3.4	49
162	Injection charge assisted polarization reversal in ferroelectric thin films. <i>Applied Physics Letters</i> , 2007 , 90, 072910	3.4	49
161	Enhanced piezoelectric output performance via control of dielectrics in Fe ²⁺ -incorporated MAPbI ₃ perovskite thin films: Flexible piezoelectric generators. <i>Nano Energy</i> , 2018 , 49, 247-256	17.1	47
160	Three-dimensional ferroelectric domain imaging of epitaxial BiFeO ₃ thin films using angle-resolved piezoresponse force microscopy. <i>Applied Physics Letters</i> , 2010 , 97, 112907	3.4	47
159	On measurement of optical band gap of chromium oxide films containing both amorphous and crystalline phases. <i>Journal of Non-Crystalline Solids</i> , 1997 , 221, 245-254	3.9	47
158	Nanoscale domain growth dynamics of ferroelectric poly(vinylidene fluoride-co-trifluoroethylene) thin films. <i>Applied Physics Letters</i> , 2010 , 96, 012908	3.4	45
157	Unusual size effect on the polarization patterns in micron-size Pb(Zr,Ti)O ₃ film capacitors. <i>Applied Physics Letters</i> , 2002 , 80, 4804-4806	3.4	45
156	Fabrication and investigation of ultrathin, and smooth Pb(Zr,Ti)O ₃ films for miniaturization of microelectronic devices. <i>Journal of Applied Physics</i> , 2002 , 92, 7434-7441	2.5	39
155	Study of domain stability on (Pb _{0.76} Ca _{0.24})TiO ₃ thin films using piezoresponse microscopy. <i>Applied Physics Letters</i> , 2002 , 81, 715-717	3.4	39
154	Charge gradient microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 6566-9	11.5	37
153	High-resolution field effect sensing of ferroelectric charges. <i>Nano Letters</i> , 2011 , 11, 1428-33	11.5	37
152	Nanoscale piezoresponse studies of ferroelectric domains in epitaxial BiFeO ₃ nanostructures. <i>Journal of Applied Physics</i> , 2009 , 105, 061619	2.5	37
151	Vertically aligned P(VDF-TrFE) core-shell structures on flexible pillar arrays. <i>Scientific Reports</i> , 2015 , 5, 10728	4.9	36
150	Effect of domain structure on thermal stability of nanoscale ferroelectric domains. <i>Applied Physics Letters</i> , 2002 , 80, 4000-4002	3.4	33
149	Local surface potential distribution in oriented ferroelectric thin films. <i>Applied Physics Letters</i> , 2007 , 91, 052906	3.4	31
148	Three-dimensional ferroelectric domain imaging of bulk Pb(Zr,Ti)O ₃ by atomic force microscopy. <i>Applied Physics Letters</i> , 2004 , 84, 2382-2384	3.4	30
147	Effect of nanopatterning on mechanical properties of Lithium anode. <i>Scientific Reports</i> , 2018 , 8, 2514	4.9	28

146	A spring-type piezoelectric energy harvester. <i>RSC Advances</i> , 2013 , 3, 3194	3.7	28
145	X-ray irradiation induced reversible resistance change in Pt/TiO ₂ /Pt cells. <i>ACS Nano</i> , 2014 , 8, 1584-9	16.7	27
144	Polymer piezoelectric energy harvesters for low wind speed. <i>Applied Physics Letters</i> , 2014 , 104, 012902	3.4	27
143	Evidence for forward domain growth being rate-limiting step in polarization switching in <111>-oriented-Pb(Zr _{0.45} Ti _{0.55})O ₃ thin-film capacitors. <i>Applied Physics Letters</i> , 2002 , 81, 3437-3439	3.4	26
142	Tribological characteristics of probe tip and PZT media for AFM-based recording technology. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 849-854	2	25
141	Effect of local surface potential distribution on its relaxation in polycrystalline ferroelectric films. <i>Journal of Applied Physics</i> , 2010 , 107, 054103	2.5	24
140	Ambient effects on electric-field-induced local charge modification of TiO ₂ . <i>Applied Physics Letters</i> , 2012 , 100, 022901	3.4	24
139	Nanoscale piezoresponse of 70 nm poly(vinylidene fluoride-trifluoro-ethylene) films annealed at different temperatures. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010 , 4, 94-96	2.5	24
138	Screen charge transfer by grounded tip on ferroelectric surfaces. <i>Physica Status Solidi - Rapid Research Letters</i> , 2008 , 2, 74-76	2.5	24
137	Unveiling Predominant Air-Stable Organotin Bromide Perovskite toward Mechanical Energy Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16469-16480	9.5	23
136	Size effect of flexible proof mass on the mechanical behavior of micron-scale cantilevers for energy harvesting applications. <i>Applied Physics Letters</i> , 2011 , 99, 243506	3.4	23
135	Cost-effective and strongly integrated fabric-based wearable piezoelectric energy harvester. <i>Nano Energy</i> , 2020 , 75, 104992	17.1	22
134	Room-temperature relaxor ferroelectricity and photovoltaic effects in tin titanate directly deposited on a silicon substrate. <i>Physical Review B</i> , 2018 , 97,	3.3	21
133	Geometry- and size-dependence of electrical properties of metal contacts on semiconducting nanowires. <i>Journal of Applied Physics</i> , 2010 , 108, 094308	2.5	21
132	Tip traveling and grain boundary effects in domain formation using piezoelectric force microscopy for probe storage applications. <i>Applied Physics Letters</i> , 2006 , 89, 172909	3.4	21
131	Correlation between grain size and domain size distributions in ferroelectric media for probe storage applications. <i>Applied Physics Letters</i> , 2006 , 89, 162907	3.4	21
130	Imaging Ferroelectric Domains and Domain Walls Using Charge Gradient Microscopy: Role of Screening Charges. <i>ACS Nano</i> , 2016 , 10, 2568-74	16.7	20
129	Tunable and rapid self-assembly of block copolymers using mixed solvent vapors. <i>Nanoscale</i> , 2014 , 6, 15216-21	7.7	20

128	Magnetic interactions and reversal of artificial square spin ices. <i>New Journal of Physics</i> , 2012 , 14, 0750282.9	20
127	Light-Driven Piezo- and Triboelectricity in Organic-Inorganic Metal Trihalide Perovskite toward Mechanical Energy Harvesting and Self-powered Sensor Application. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 50472-50483	9.5 20
126	Synthesis and Application of Ferroelectric Poly(Vinylidene Fluoride-co-Trifluoroethylene) Films using Electrophoretic Deposition. <i>Scientific Reports</i> , 2016 , 6, 36176	4.9 19
125	Nano-tribological characteristics of PZT thin film investigated by atomic force microscopy. <i>Surface and Coatings Technology</i> , 2007 , 201, 7983-7991	4.4 19
124	Visualization of ion transport in Nafion using electrochemical strain microscopy. <i>Chemical Communications</i> , 2016 , 52, 831-4	5.8 18
123	Mechanical Removal and Rescreening of Local Screening Charges at Ferroelectric Surfaces. <i>Physical Review Applied</i> , 2015 , 3,	4.3 18
122	Piezoresponse force microscopy studies of PbTiO ₃ thin films grown via layer-by-layer gas phase reaction. <i>Applied Physics Letters</i> , 2009 , 94, 092901	3.4 18
121	Atomic layer deposition of environmentally benign SnTiO _x as a potential ferroelectric material. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2016 , 34, 01A119	2.9 18
120	Coupled Lattice Polarization and Ferromagnetism in Multiferroic NiTiO Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21879-21890	9.5 16
119	Long-range Stripe Nanodomains in Epitaxial (110) BiFeO Thin Films on (100) NdGaO Substrate. <i>Scientific Reports</i> , 2017 , 7, 4857	4.9 16
118	Bipolar resistance switching in Pt/CuO _x /Pt via local electrochemical reduction. <i>Applied Physics Letters</i> , 2014 , 104, 242902	3.4 16
117	Visualization of magnetic domain structure changes induced by interfacial strain in CoFe ₂ O ₄ /BaTiO ₃ heterostructures. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 055001	3 16
116	Ferroelectric Domain Wall Motion in Freestanding Single-Crystal Complex Oxide Thin Film. <i>Advanced Materials</i> , 2020 , 32, e1907036	24 16
115	Size effects of micro-pattern on lithium metal surface on the electrochemical performance of lithium metal secondary batteries. <i>Journal of Power Sources</i> , 2018 , 408, 136-142	8.9 16
114	Modulation of oxygen vacancies assisted ferroelectric and photovoltaic properties of (Nd, V) co-doped BiFeO ₃ thin films. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 275303	3 16
113	Effect of the dielectric constant of a liquid electrolyte on lithium metal anodes. <i>Electrochimica Acta</i> , 2019 , 300, 299-305	6.7 15
112	Selective current collecting design for spring-type energy harvesters. <i>RSC Advances</i> , 2015 , 5, 10662-10666	9.7 15
111	Visualization of three dimensional domain structures in ferroelectric PbTiO ₃ nanotubes. <i>Applied Physics Letters</i> , 2013 , 103, 022902	3.4 15

110	Thermally assisted nanotransfer printing with sub-20-nm resolution and 8-inch wafer scalability. <i>Science Advances</i> , 2020 , 6, eabb6462	14.3	15
109	Visualization and manipulation of meta-stable polarization variants in multiferroic materials. <i>AIP Advances</i> , 2013 , 3, 042114	1.5	13
108	Elastic relaxation and correlation of local strain gradients with ferroelectric domains in (001) BiFeO ₃ nanostructures. <i>Applied Physics Letters</i> , 2011 , 99, 052902	3.4	13
107	Effect of deposition temperature of TiO ₂ on the piezoelectric property of PbTiO ₃ film grown by PbO gas phase reaction sputtering. <i>Journal of Applied Physics</i> , 2010 , 107, 104112	2.5	13
106	Breaking the elastic limit of piezoelectric ceramics using nanostructures: A case study using ZnO. <i>Nano Energy</i> , 2020 , 78, 105259	17.1	13
105	Charge collection kinetics on ferroelectric polymer surface using charge gradient microscopy. <i>Scientific Reports</i> , 2016 , 6, 25087	4.9	13
104	Re-entrant relaxor ferroelectricity of methylammonium lead iodide. <i>Current Applied Physics</i> , 2016 , 16, 1603-1606	2.6	12
103	Effects of membrane thickness on the performance of ionic polymer-metal composite actuators.. <i>RSC Advances</i> , 2019 , 9, 14621-14626	3.7	11
102	Fabrication of Highly Ordered and Well-Aligned PbTiO ₃ /TiN Core-Shell Nanotube Arrays. <i>Small</i> , 2015 , 11, 3750-4	11	11
101	Scanning probe-type data storage beyond hard disk drive and flash memory. <i>MRS Bulletin</i> , 2018 , 43, 365-370	3.7	11
100	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> , 2019 , 2, 5656-5664	6.1	11
99	Termination and hydration of forsteritic olivine (0 1 0) surface. <i>Geochimica Et Cosmochimica Acta</i> , 2014 , 145, 268-280	5.5	11
98	Direct observation of fatigue in epitaxially grown Pb(Zr,Ti)O ₃ thin films using second harmonic piezoresponse force microscopy. <i>Applied Physics Letters</i> , 2011 , 99, 052904	3.4	11
97	Effects of Self-Assembled Monolayer and PFPE Lubricant on Wear Characteristics of Flat Silicon Tips. <i>Tribology Letters</i> , 2009 , 34, 61-73	2.8	11
96	Structure-property relationships in self-assembled metalorganic chemical vapor deposition-grown CoFe ₂ O ₄ /PbTiO ₃ multiferroic nanocomposites using three-dimensional characterization. <i>Journal of Applied Physics</i> , 2011 , 110, 034103	2.5	11
95	Nanoscale ferroelectric switching behavior at charged domain boundaries studied by angle-resolved piezoresponse force microscopy. <i>Applied Physics Letters</i> , 2011 , 99, 142909	3.4	11
94	Surface potential of ferroelectric domain investigated by kelvin force microscopy. <i>Journal of Electroceramics</i> , 2006 , 17, 185-188	1.5	11
93	Reducing Time to Discovery: Materials and Molecular Modeling, Imaging, Informatics, and Integration. <i>ACS Nano</i> , 2021 , 15, 3971-3995	16.7	11

92	Membrane crystallinity and fuel crossover in direct ethanol fuel cells with Nafion composite membranes containing phosphotungstic acid. <i>Journal of Materials Science</i> , 2017 , 52, 2400-2412	4.3	10
91	Hierarchically Self-Assembled Block Copolymer Blends for Templating Hollow Phase-Change Nanostructures with an Extremely Low Switching Current. <i>Chemistry of Materials</i> , 2015 , 27, 2673-2677	9.6	10
90	Tuning piezoelectric properties through epitaxy of LaTiO and related thin films. <i>Scientific Reports</i> , 2018 , 8, 3037	4.9	10
89	Flexible piezoelectric liquid volume sensor. <i>Sensors and Actuators A: Physical</i> , 2018 , 276, 219-225	3.9	10
88	Self-Assembled Room Temperature Multiferroic BiFeO ₃ -LiFe ₅ O ₈ Nanocomposites. <i>Advanced Functional Materials</i> , 2020 , 30, 1906849	15.6	10
87	Interfacial stability of ultrathin films of magnetite Fe ₃ O ₄ (111) on Al ₂ O ₃ (001) grown by ozone-assisted molecular-beam epitaxy. <i>Applied Physics Letters</i> , 2017 , 110, 021601	3.4	9
86	Intact Crystalline Semiconducting Graphene Nanoribbons from Unzipping Nitrogen-Doped Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 38006-38015	9.5	9
85	Elucidating the Polymeric Binder Distribution within Lithium-Ion Battery Electrodes Using SAICAS. <i>ChemPhysChem</i> , 2018 , 19, 1627-1634	3.2	9
84	Integration of piezoelectric aluminum nitride and ultrananocrystalline diamond films for implantable biomedical microelectromechanical devices. <i>Applied Physics Letters</i> , 2013 , 102, 104101	3.4	9
83	Observation of mechanical fracture and corresponding domain structure changes of polycrystalline PbTiO ₃ nanotubes. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011 , 5, 59-61	2.5	9
82	Effects of surface morphology on retention loss of ferroelectric domains in poly(vinylidene fluoride-co-trifluoroethylene) thin films. <i>Applied Physics Letters</i> , 2011 , 99, 092905	3.4	9
81	Quantitative measurement of in-plane cantilever torsion for calibrating lateral piezoresponse force microscopy. <i>Review of Scientific Instruments</i> , 2011 , 82, 113706	1.7	9
80	Effects of gas ring position and mesh introduction on film quality and thickness uniformity. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1997 , 45, 98-101	3.1	9
79	Fabrication of Atomic Force Microscope Probe with Low Spring Constant Using SU-8 Photoresist. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, L1171-L1174	1.4	9
78	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> , 2020 , 132, 111008	5.1	9
77	Single frequency vertical piezoresponse force microscopy. <i>Journal of Applied Physics</i> , 2021 , 129, 051101	2.5	9
76	Simulation and fabrication of attenuated phase-shifting masks: CrF(x). <i>Applied Optics</i> , 1997 , 36, 7247-56	1.7	8
75	Electron holography study for two-dimensional dopant profile measurement with specimens prepared by backside ion milling. <i>Journal of Electron Microscopy</i> , 2008 , 57, 13-8		8

74	Servo and tracking algorithm for a probe storage system. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 855-859		8
73	Formation of ferroelectric nano-domains using scanning force microscopy for the future application of memory devices. <i>Integrated Ferroelectrics</i> , 2000 , 31, 163-171	0.8	8
72	Piezoelectric hysteresis measurement using atomic force microscopy. <i>Integrated Ferroelectrics</i> , 2001 , 38, 31-38	0.8	8
71	Attenuated phase-shifting masks of chromium aluminum oxide. <i>Applied Optics</i> , 1998 , 37, 4254-9	1.7	8
70	Effects of NHF and distilled water on structure of pores in TiO nanotube arrays. <i>Scientific Reports</i> , 2018 , 8, 12487	4.9	8
69	The Hydration Structure at Yttria-Stabilized Cubic Zirconia (110)-Water Interface with Sub-Ångström Resolution. <i>Scientific Reports</i> , 2016 , 6, 27916	4.9	7
68	The effects of an alkaline treatment on the ferroelectric properties of poly(vinylidene fluoride trifluoroethylene) films. <i>Electronic Materials Letters</i> , 2015 , 11, 586-591	2.9	7
67	Nanoscale retention-loss dynamics of polycrystalline PbTiO ₃ nanotubes. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011 , 5, 289-291	2.5	7
66	Nanoscale bit formation in highly (111)-oriented ferroelectric thin films deposited on glass substrates for high-density storage media. <i>Nanotechnology</i> , 2011 , 22, 245705	3.4	7
65	SURFACE POTENTIAL RELAXATION OF FERROELECTRIC DOMAIN INVESTIGATED BY KELVIN PROBE FORCE MICROSCOPY. <i>Integrated Ferroelectrics</i> , 2006 , 85, 25-30	0.8	7
64	Microscopic observation of region by region polarization domains freezing during fatigue of the Pt-PZT-Pt system. <i>Integrated Ferroelectrics</i> , 1998 , 22, 237-244	0.8	7
63	A simulation model for thickness profile of the film deposited using planar circular type magnetron sputtering sources. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1996 , 14, 2721-2727	2.9	7
62	Piezoelectric Materials for Medical Applications 2018 ,		7
61	Effect of defects on reaction of NiO surface with Pb-contained solution. <i>Scientific Reports</i> , 2017 , 7, 44805	4.9	6
60	Ferroelectric Domain Studies of Patterned (001) BiFeO ₃ by Angle-Resolved Piezoresponse Force Microscopy. <i>Scientific Reports</i> , 2018 , 8, 203	4.9	6
59	Quantitative Observation of Threshold Defect Behavior in Memristive Devices with Operando X-ray Microscopy. <i>ACS Nano</i> , 2018 , 12, 4938-4945	16.7	6
58	Materials and Devices for MEMS Piezoelectric Energy Harvesting 2013 , 417-435		6
57	Memory effect of a single-walled carbon nanotube on nitride-oxide structure under various bias conditions. <i>Applied Physics Letters</i> , 2010 , 96, 023101	3.4	6

56	Formation and process optimization of scanning resistive probe. <i>Journal of Vacuum Science & Technology B</i> , 2006 , 24, 2417		6
55	Visualization of Functional Components in a Lithium Silicon Titanium Phosphate/Natural Graphite Composite Anode. <i>ACS Applied Energy Materials</i> , 2020 , 3, 3253-3261	6.1	5
54	Astrocyte-Encapsulated Hydrogel Microfibers Enhance Neuronal Circuit Generation. <i>Advanced Healthcare Materials</i> , 2020 , 9, e1901072	10.1	5
53	Fabrication and Characterization of Nanoscale Ferroelectric Honeycombs. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 1355-1358	3.8	5
52	Fabrication of vertically aligned ferroelectric polyvinylidene fluoride mesoscale rod arrays. <i>Journal of Applied Polymer Science</i> , 2013 , 130, n/a-n/a	2.9	5
51	Optical property simulation of single-layer halftone phaseshifting masks for DUV microlithography. <i>Semiconductor Science and Technology</i> , 1996 , 11, 1450-1455	1.8	5
50	Single-layer halftone phase-shifting masks for DUV microlithography: optical property simulation and chromium compound film preparation. <i>Applied Surface Science</i> , 1997 , 113-114, 680-684	6.7	5
49	Effect of metal/insulator/semiconductor structure derived space charge field on the tip vibration signal in electrostatic force microscopy. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2000 , 18, 2688		5
48	Low-Temperature Growth of Ferroelectric Hf _{0.5} Zr _{0.5} O ₂ Thin Films Assisted by Deep Ultraviolet Light Irradiation. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 1244-1251	4	5
47	Effect of stress state on the domain configuration and switching behavior in ferroelectric thin films. <i>RSC Advances</i> , 2012 , 2, 11901	3.7	4
46	Characterization of Sensitivity and Resolution of Silicon Resistive Probe. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 1717-1722	1.4	4
45	GRAIN/DOMAIN INTERACTION ANTD ITS EFFECT ON BIT FORMATION IN FERROELECTRIC FILMS. <i>Integrated Ferroelectrics</i> , 2006 , 78, 255-260	0.8	4
44	Polarization Switching and Fatigue of Ferroelectric Thin Films Studied By PFM 2004 , 111-131		4
43	QUARTZ CRYSTAL RESONATOR BASED SCANNING PROBE MICROSCOPY. <i>Modern Physics Letters B</i> , 2005 , 19, 1303-1322	1.6	4
42	Observation of domain nucleation and growth during switching process. <i>Ferroelectrics</i> , 1999 , 223, 143-148		4
41	Investigation on application of chromium-based materials to attenuated phase-shift masks for DUV exposure 1996 ,		4
40	Ferroelectric Probe Storage Devices 2014 , 259-273		4
39	Ferroelectric Polymer PVDF-Based Nanogenerator 2020 ,		3

38	Tunable in-plane thermal conductivity of a single PEDOT:PSS nanotube. <i>Nanoscale</i> , 2020 , 12, 8701-8705	7.7	3
37	Effect of nucleation time on bending response of ionic polymer-metal composite actuators. <i>Electrochimica Acta</i> , 2013 , 108, 547-553	6.7	3
36	Synthesis, Characterization, Properties, and Applications of Nanosized Ferroelectric, Ferromagnetic, or Multiferroic Materials. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-2	3.2	3
35	Effects of Texturing and Microbridge Length on the IR Responsivity of YBa ₂ Cu ₃ O _x Thin Film. <i>Japanese Journal of Applied Physics</i> , 1996 , 35, 1716-1719	1.4	3
34	Water-induced degradation of chromium fluoride films. <i>Thin Solid Films</i> , 1998 , 324, 292-299	2.2	3
33	Stability and read/write characteristics of nano ferroelectric domains. <i>Ferroelectrics</i> , 2001 , 259, 289-298	0.6	3
32	Room-temperature multiferroicity in NiFe ₂ O ₄ and its magnetoelectric coupling intensified through defect engineering. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 6384	3.8	3
31	Synthesis of Ferroelectric Lead Titanate Nanohoneycomb Arrays via Lead Supplement Process. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 2221-2225	3.8	3
30	Orientation-Dependent Hydration Structures at Yttria-Stabilized Cubic Zirconia Surfaces. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 29089-29097	3.8	3
29	Microstructural evolution and mechanical properties of atmospheric plasma sprayed Y ₂ O ₃ coating with state of in-flight particle. <i>Ceramics International</i> , 2021 , 47, 3853-3866	5.1	3
28	Quantitative Measurement of Li-Ion Concentration and Diffusivity in Solid-State Electrolyte. <i>ACS Applied Energy Materials</i> , 2021 , 4, 784-790	6.1	3
27	(111)-oriented Sn-doped BaTiO ₃ epitaxial thin films for ultrahigh energy density capacitors. <i>Ceramics International</i> , 2021 , 47, 26856-26862	5.1	3
26	Resistive Probe Storage: Read/Write Mechanism	2007, 943-973	3
25	Microscopic study of polydopamine modified BaTiO ₃ /poly(vinylidene fluoride-trifluoroethylene) nanocomposite films. <i>Thin Solid Films</i> , 2019 , 682, 121-125	2.2	2
24	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> , 2020 , 110, 103930	4.1	2
23	Design and Analysis of the Position Detection Algorithm for a Probe Storage. <i>IEEE Sensors Journal</i> , 2006 , 6, 1010-1015	4	2
22	Formation and observation of ferroelectric domains in PbZr _{1-x} Ti _x O ₃ (PZT) thin films using atomic force microscopy	1999,	2
21	Non-oxidized bare copper nanoparticles with surface excess electrons in air.. <i>Nature Nanotechnology</i> , 2022 ,	28.7	2

20	Multi-Step Chemical Solution Deposition-Annealing Process Toward Wake-Up Free Ferroelectricity in Y:HfO ₂ Films. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100907	4.6	2
19	Segmentation of experimental datasets via convolutional neural networks trained on phase field simulations. <i>Acta Materialia</i> , 2021 , 214, 116990	8.4	2
18	Machine learning assisted synthesis of lithium-ion batteries cathode materials. <i>Nano Energy</i> , 2022 , 98, 107214	17.1	2
17	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> , 2020 , 10,	5.4	1
16	Zinc Adsorption and Hydration Structures at Yttria-Stabilized Zirconia Surfaces. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 21305-21310	3.8	1
15	Characterization of Retention Phenomena of Micron-Size Electrical Domains in Pzt Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 574, 95		1
14	Selective Depositions of Fe-Containing Oxide Films on Mixed Selfassembled Organic Monolayers using Microcontact Printing. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 576, 191		1
13	Large-area Uniform 1-nm-level Amorphous Carbon Layers from 3D Conformal Polymer Brushes. A "Next-generation" Cu Diffusion Barrier?. <i>Advanced Materials</i> , 2022 , e2110454	24	1
12	Effect of Hydrogen on Hafnium Zirconium Oxide Fabricated by Atomic Layer Deposition Using H ₂ O ₂ Oxidant. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021 , 15, 2100020	2.5	1
11	Microwave response of YBa ₂ Cu ₃ O _{7-δ} grain boundary junction. <i>Journal of Applied Physics</i> , 1995 , 77, 2193-2195		0
10	Deciphering osteoconductive surface charge effects in sintered hydroxyapatite via piezoresponse force microscopy. <i>Journal of Applied Physics</i> , 2021 , 129, 094902	2.5	0
9	Pseudo wastewater treatment by combining adsorption and phytoaccumulation on the Linn. plant/activated carbon system. <i>International Journal of Phytoremediation</i> , 2021 , 23, 300-306	3.9	0
8	Correlative SPM/TEM Investigation of the Electrochemical Deposition of Lithium Metal. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1524-1525	0.5	
7	Nanotube Arrays: Fabrication of Highly Ordered and Well-Aligned PbTiO ₃ /TiN Core/Shell Nanotube Arrays (Small 31/2015). <i>Small</i> , 2015 , 11, 3722-3722	11	
6	Direct Nanoscale Observation of Size Effect on Polarization Instability in Pb(Zr, Ti)O ₃ film capacitors. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 688, 1		
5	Polaron conduction loss in microwave dielectric ceramics. <i>Journal of Materials Research</i> , 1999 , 14, 500-502	5	
4	Poster: Memristive Systems	523-587	
3	Magnetic Modulation by Oxygen Vacancies in Epitaxial Ga _{0.5} Fe _{1.5} O ₃ . <i>Journal of the Korean Physical Society</i> , 2020 , 77, 1204-1209	0.6	

- 2 Understanding the Selective Deposition of Li Metal on Nonuniform Electrode Surfaces Using Atomic Force Microscopy. *Journal of the Electrochemical Society*, **2021**, 168, 020534 3.9
- 1 Large-Area Uniform 1-nm-Level Amorphous Carbon Layers from 3D Conformal Polymer Brushes. A Next-Generation Cu Diffusion Barrier? (Adv. Mater. 15/2022). *Advanced Materials*, **2022**, 34, 2270113 24