

Sergei V Kalinin

List of Publications by Year in descending order

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1,099
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47,828
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101
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5268

166
g-index

1148
all docs

1148
docs citations

1148
times ranked

47959
citing authors

#	ARTICLE	IF	CITATIONS
1	Conduction at domain walls in oxide multiferroics. Nature Materials, 2009, 8, 229-234.	26.6	1,236
2	Optimal Control of Hybrid Electric Vehicles Based on Pontryagin's Minimum Principle. IEEE Transactions on Control Systems Technology, 2011, 19, 1279-1287.	5.4	631
3	Nanoscale mapping of ion diffusion in a lithium-ion battery cathode. Nature Nanotechnology, 2010, 5, 749-754.	30.5	521
4	Electric modulation of conduction in multiferroic Ca-doped BiFeO ₃ films. Nature Materials, 2009, 8, 485-493.	26.6	485
5	Imaging mechanism of piezoresponse force microscopy of ferroelectric surfaces. Physical Review B, 2002, 65, .	3.3	451
6	Dual-frequency resonance-tracking atomic force microscopy. Nanotechnology, 2007, 18, 475504.	2.7	435
7	The band excitation method in scanning probe microscopy for rapid mapping of energy dissipation on the nanoscale. Nanotechnology, 2007, 18, 435503.	2.7	414
8	Switching spectroscopy piezoresponse force microscopy of ferroelectric materials. Applied Physics Letters, 2006, 88, 062908.	3.2	381
9	Local polarization dynamics in ferroelectric materials. Reports on Progress in Physics, 2010, 73, 056502.	20.3	375
10	Long range interactions in nanoscale science. Reviews of Modern Physics, 2010, 82, 1887-1944.	46.3	368
11	CuInP ₂ S ₆ Room Temperature Layered Ferroelectric. Nano Letters, 2015, 15, 3808-3814.	9.5	362
12	Domain Wall Conductivity in La-Doped BiFeO_3 . Physical Review Letters, 2010, 105, 197603.	8.0	361
13	NLRP3 Phosphorylation Is an Essential Priming Event for Inflammasome Activation. Molecular Cell, 2017, 68, 185-197.e6.	9.6	358
14	Direct demonstration of a specific interaction between cyclophilin-D and the adenine nucleotide translocase confirms their role in the mitochondrial permeability transition. Biochemical Journal, 1998, 336, 287-290.	3.8	356
15	Deterministic control of ferroelastic switching in multiferroic materials. Nature Nanotechnology, 2009, 4, 868-875.	30.5	339
16	Local potential and polarization screening on ferroelectric surfaces. Physical Review B, 2001, 63, .	3.3	337
17	Enhanced electric conductivity at ferroelectric vortex cores in BiFeO ₃ . Nature Physics, 2012, 8, 81-88.	11.8	333
18	Impact of different dopants on the switching properties of ferroelectric hafniumoxide. Japanese Journal of Applied Physics, 2014, 53, 08LE02.	1.6	333

#	ARTICLE	IF	CITATIONS
19	Suppression of Octahedral Tilts and Associated Changes in Electronic Properties at Epitaxial Oxide Heterostructure Interfaces. <i>Physical Review Letters</i> , 2010, 105, 087204.	8.0	309
20	Deep Learning of Atomically Resolved Scanning Transmission Electron Microscopy Images: Chemical Identification and Tracking Local Transformations. <i>ACS Nano</i> , 2017, 11, 12742-12752.	15.3	301
21	Ferroelectric hafnium oxide: A CMOS-compatible and highly scalable approach to future ferroelectric memories. , 2013, , .		294
22	Bigâ€“deepâ€“smart data in imaging for guiding materials design. <i>Nature Materials</i> , 2015, 14, 973-980.	26.6	292
23	Electromechanical Imaging and Spectroscopy of Ferroelectric and Piezoelectric Materials: State of the Art and Prospects for the Future. <i>Journal of the American Ceramic Society</i> , 2009, 92, 1629-1647.	3.8	290
24	The Sydney-AAO Multi-object Integral field spectrograph. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, , no-no.	4.6	290
25	Piezoresponse force microscopy and recent advances in nanoscale studies of ferroelectrics. <i>Journal of Materials Science</i> , 2006, 41, 107-116.	3.7	289
26	Probing oxygen vacancy concentration and homogeneity in solid-oxide fuel-cell cathode materials on the subunit-cell level. <i>Nature Materials</i> , 2012, 11, 888-894.	26.6	287
27	Direct imaging of the spatial and energy distribution of nucleation centres in ferroelectric materials. <i>Nature Materials</i> , 2008, 7, 209-215.	26.6	260
28	Ferroelectric or non-ferroelectric: Why so many materials exhibit â€œferroelectricityâ€• on the nanoscale. <i>Applied Physics Reviews</i> , 2017, 4, .	11.7	254
29	Ferroelectricity in Strain-Free SrTiO_3 Thin Films. <i>Physical Review Letters</i> , 2010, 104, 197601.	8.0	239
30	Differentiating Ferroelectric and Nonferroelectric Electromechanical Effects with Scanning Probe Microscopy. <i>ACS Nano</i> , 2015, 9, 6484-6492.	15.3	238
31	Real Space Mapping of Li-Ion Transport in Amorphous Si Anodes with Nanometer Resolution. <i>Nano Letters</i> , 2010, 10, 3420-3425.	9.5	236
32	Vector Piezoresponse Force Microscopy. <i>Microscopy and Microanalysis</i> , 2006, 12, 206-220.	0.4	235
33	Nanoscale Insight Into Leadâ€“Free BNTâ€“KNN. <i>Advanced Functional Materials</i> , 2012, 22, 4208-4215.	16.5	234
34	Measuring oxygen reduction/evolution reactions on the nanoscale. <i>Nature Chemistry</i> , 2011, 3, 707-713.	14.3	233
35	Nanoelectromechanics of piezoresponse force microscopy. <i>Physical Review B</i> , 2004, 70, .	3.3	232
36	Functional Ion Defects in Transition Metal Oxides. <i>Science</i> , 2013, 341, 858-859.	20.9	231

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37	Atomic Polarization and Local Reactivity on Ferroelectric Surfaces: A New Route toward Complex Nanostructures. <i>Nano Letters</i> , 2002, 2, 589-593.	9.5	228
38	Dynamic Conductivity of Ferroelectric Domain Walls in BiFeO_3 . <i>Nano Letters</i> , 2011, 11, 1906-1912.	9.5	227
39	Switching of ferroelectric polarization in epitaxial BaTiO_3 films on silicon without a conducting bottom electrode. <i>Nature Nanotechnology</i> , 2013, 8, 748-754.	30.5	226
40	Direct observation of ferroelectric field effect and vacancy-controlled screening at the $\text{BiFeO}_3/\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ interface. <i>Nature Materials</i> , 2014, 13, 1019-1025.	26.6	222
41	The joint automated repository for various integrated simulations (JARVIS) for data-driven materials design. <i>Npj Computational Materials</i> , 2020, 6, .	9.1	219
42	Control of Octahedral Tilts and Magnetic Properties of Perovskite Oxide Heterostructures by Substrate Symmetry. <i>Physical Review Letters</i> , 2010, 105, 227203.	8.0	216
43	A high-density SNP genotyping array for <i>Brassica napus</i> and its ancestral diploid species based on optimised selection of single-locus markers in the allotetraploid genome. <i>Theoretical and Applied Genetics</i> , 2016, 129, 1887-1899.	3.7	216
44	Nanoscale Electromechanics of Ferroelectric and Biological Systems: A New Dimension in Scanning Probe Microscopy. <i>Annual Review of Materials Research</i> , 2007, 37, 189-238.	9.8	208
45	Quantitative mapping of switching behavior in piezoresponse force microscopy. <i>Review of Scientific Instruments</i> , 2006, 77, 073702.	1.4	200
46	Domain growth kinetics in lithium niobate single crystals studied by piezoresponse force microscopy. <i>Applied Physics Letters</i> , 2005, 86, 012906.	3.2	197
47	Large Resistive Switching in Ferroelectric BiFeO_3 Nanoisland Based Switchable Diodes. <i>Advanced Materials</i> , 2013, 25, 2339-2343.	24.3	197
48	Chemical nature of ferroelastic twin domains in $\text{CH}_3\text{NH}_3\text{PbI}_3$ perovskite. <i>Nature Materials</i> , 2018, 17, 1013-1019.	26.6	190
49	Piezoresponse Force Microscopy: A Window into Electromechanical Behavior at the Nanoscale. <i>MRS Bulletin</i> , 2009, 34, 648-657.	4.2	189
50	Controlling the actuation properties of MXene paper electrodes upon cation intercalation. <i>Nano Energy</i> , 2015, 17, 27-35.	16.5	174
51	A decade of piezoresponse force microscopy: progress, challenges, and opportunities. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2006, 53, 2226-2252.	3.2	173
52	Switchable Induced Polarization in $\text{LaAlO}_3/\text{SrTiO}_3$ Heterostructures. <i>Nano Letters</i> , 2012, 12, 1765-1771.	9.5	169
53	Electronic flexoelectricity in low-dimensional systems. <i>Physical Review B</i> , 2008, 77, .	3.3	164
54	Tunable quadruple-well ferroelectric van der Waals crystals. <i>Nature Materials</i> , 2020, 19, 43-48.	26.6	160

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55	Loss of cell wall alpha(1-3) glucan affects <i>Cryptococcus neoformans</i> from ultrastructure to virulence. <i>Molecular Microbiology</i> , 2007, 63, 1385-1398.	2.5	159
56	Tunable Metallic Conductance in Ferroelectric Nanodomains. <i>Nano Letters</i> , 2012, 12, 209-213.	9.5	158
57	Mapping Octahedral Tilts and Polarization Across a Domain Wall in BiFeO ₃ from Z-Contrast Scanning Transmission Electron Microscopy Image Atomic Column Shape Analysis. <i>ACS Nano</i> , 2010, 4, 6071-6079.	15.3	154
58	Ferroelectricity in Si-Doped HfO ₂ Revealed: A Binary Lead-Free Ferroelectric. <i>Advanced Materials</i> , 2014, 26, 8198-8202.	24.3	154
59	Symmetry Relationship and Strain-Induced Transitions between Insulating M1 and M2 and Metallic R phases of Vanadium Dioxide. <i>Nano Letters</i> , 2010, 10, 4409-4416.	9.5	153
60	Band excitation in scanning probe microscopy: sines of change. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 464006.	2.9	153
61	Doping-Based Stabilization of the M2 Phase in Free-Standing VO ₂ Nanostructures at Room Temperature. <i>Nano Letters</i> , 2012, 12, 6198-6205.	9.5	153
62	Strongly enhanced oxygen ion transport through samarium-doped CeO ₂ nanopillars in nanocomposite films. <i>Nature Communications</i> , 2015, 6, 8588.	13.2	153
63	Screening Phenomena on Oxide Surfaces and Its Implications for Local Electrostatic and Transport Measurements. <i>Nano Letters</i> , 2004, 4, 555-560.	9.5	149
64	Nanoscale Switching Characteristics of Nearly Tetragonal BiFeO ₃ Thin Films. <i>Nano Letters</i> , 2010, 10, 2555-2561.	9.5	149
65	Atomic-scale evolution of modulated phases at the ferroelectric-antiferroelectric morphotropic phase boundary controlled by flexoelectric interaction. <i>Nature Communications</i> , 2012, 3, 775.	13.2	148
66	Bias-Dependent Molecular-Level Structure of Electrical Double Layer in Ionic Liquid on Graphite. <i>Nano Letters</i> , 2013, 13, 5954-5960.	9.5	148
67	The effects of arbuscular mycorrhizas on soil aggregation depend on the interaction between plant and fungal species. <i>New Phytologist</i> , 2004, 164, 365-373.	7.8	143
68	EFFECTS OF DEPRIVATION UPON COUNTING AND TIMING IN RATS. <i>Journal of the Experimental Analysis of Behavior</i> , 1962, 5, 463-466.	1.3	141
69	Local probing of ionic diffusion by electrochemical strain microscopy: Spatial resolution and signal formation mechanisms. <i>Journal of Applied Physics</i> , 2010, 108, .	2.3	140
70	Towards data-driven next-generation transmission electron microscopy. <i>Nature Materials</i> , 2021, 20, 274-279.	26.6	140
71	Local impedance imaging and spectroscopy of polycrystalline ZnO using contact atomic force microscopy. <i>Applied Physics Letters</i> , 2003, 82, 1869-1871.	3.2	136
72	Surface-screening mechanisms in ferroelectric thin films and their effect on polarization dynamics and domain structures. <i>Reports on Progress in Physics</i> , 2018, 81, 036502.	20.3	135

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73	Domain polarity and temperature induced potential inversion on the BaTiO ₃ (100) surface. Journal of Applied Physics, 2002, 91, 3816-3823.	2.3	133
74	Intermittency, quasiperiodicity and chaos in probe-induced ferroelectric domain switching. Nature Physics, 2014, 10, 59-66.	11.8	131
75	Domain Wall Geometry Controls Conduction in Ferroelectrics. Nano Letters, 2012, 12, 5524-5531.	9.5	129
76	Nanoscale Ferroelectricity in Crystalline β -Glycine. Advanced Functional Materials, 2012, 22, 2996-3003.	16.5	128
77	Placing single atoms in graphene with a scanning transmission electron microscope. Applied Physics Letters, 2017, 111, .	3.2	128
78	Exploring Local Electrostatic Effects with Scanning Probe Microscopy: Implications for Piezoresponse Force Microscopy and Triboelectricity. ACS Nano, 2014, 8, 10229-10236.	15.3	127
79	Nanoscale Elastic Changes in 2D Ti ₃ C ₂ T _x (MXene) Pseudocapacitive Electrodes. Advanced Energy Materials, 2016, 6, 1502290.	22.2	126
80	Thermotropic phase boundaries in classic ferroelectrics. Nature Communications, 2014, 5, 3172.	13.2	125
81	Morpho-anatomical and biochemical adapting strategies of maize (Zea mays L.) seedlings against lead and chromium stresses. Biocatalysis and Agricultural Biotechnology, 2015, 4, 286-295.	3.3	124
82	Role of Single Defects in Electronic Transport through Carbon Nanotube Field-Effect Transistors. Physical Review Letters, 2002, 89, 216801.	8.0	123
83	Deep learning analysis of defect and phase evolution during electron beam-induced transformations in WS ₂ . Npj Computational Materials, 2019, 5, .	9.1	122
84	Resonance enhancement in piezoresponse force microscopy: Mapping electromechanical activity, contact stiffness, and Q factor. Applied Physics Letters, 2006, 89, 022906.	3.2	121
85	Materials informatics: From the atomic-level to the continuum. Acta Materialia, 2019, 168, 473-510.	8.0	121
86	Exploring Topological Defects in Epitaxial BiFeO ₃ Thin Films. ACS Nano, 2011, 5, 879-887.	15.3	118
87	Chronic lymphocytic leukemia cells induce defective LFA-1â€‘directed T-cell motility by altering Rho GTPase signaling that is reversible with lenalidomide. Blood, 2013, 121, 2704-2714.	1.4	118
88	Materials science in the artificial intelligence age: high-throughput library generation, machine learning, and a pathway from correlations to the underpinning physics. MRS Communications, 2019, 9, 821-838.	1.8	118
89	Modeling and measurement of surface displacements in BaTiO ₃ bulk material in piezoresponse force microscopy. Journal of Applied Physics, 2004, 96, 563-568.	2.3	117
90	Domain Wall Conduction and Polarizationâ€‘Mediated Transport in Ferroelectrics. Advanced Functional Materials, 2013, 23, 2592-2616.	16.5	117

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91	Tunneling Electroresistance Induced by Interfacial Phase Transitions in Ultrathin Oxide Heterostructures. <i>Nano Letters</i> , 2013, 13, 5837-5843.	9.5	117
92	Mental health interventions and supports during COVID- 19 and other medical pandemics: A rapid systematic review of the evidence. <i>General Hospital Psychiatry</i> , 2020, 66, 133-146.	2.5	117
93	Elucidating arrhythmogenic mechanisms of long-QT syndrome CALM1-F142L mutation in patient-specific induced pluripotent stem cell-derived cardiomyocytes. <i>Cardiovascular Research</i> , 2017, 113, 531-541.	3.7	116
94	Collective dynamics underpins Rayleigh behavior in disordered polycrystalline ferroelectrics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 7219-7224.	7.6	114
95	Surface Domain Structures and Mesoscopic Phase Transition in Relaxor Ferroelectrics. <i>Advanced Functional Materials</i> , 2011, 21, 1977-1987.	16.5	114
96	Dynamic behaviour in piezoresponse force microscopy. <i>Nanotechnology</i> , 2006, 17, 1615-1628.	2.7	112
97	Principal component and spatial correlation analysis of spectroscopic-imaging data in scanning probe microscopy. <i>Nanotechnology</i> , 2009, 20, 085714.	2.7	112
98	The Role of Electrochemical Phenomena in Scanning Probe Microscopy of Ferroelectric Thin Films. <i>ACS Nano</i> , 2011, 5, 5683-5691.	15.3	112
99	Substrate Clamping Effects on Irreversible Domain Wall Dynamics in Lead Zirconate Titanate Thin Films. <i>Physical Review Letters</i> , 2012, 108, 157604.	8.0	112
100	Rape culture, lad culture and everyday sexism: researching, conceptualizing and politicizing new mediations of gender and sexual violence. <i>Journal of Gender Studies</i> , 2018, 27, 1-8.	2.4	112
101	Thermodynamics of electromechanically coupled mixed ionic-electronic conductors: Deformation potential, Vegard strains, and flexoelectric effect. <i>Physical Review B</i> , 2011, 83, .	3.3	110
102	Big, Deep, and Smart Data in Scanning Probe Microscopy. <i>ACS Nano</i> , 2016, 10, 9068-9086.	15.3	106
103	Directing Matter: Toward Atomic-Scale 3D Nanofabrication. <i>ACS Nano</i> , 2016, 10, 5600-5618.	15.3	103
104	Interplay of Octahedral Tilts and Polar Order in BiFeO ₃ Films. <i>Advanced Materials</i> , 2013, 25, 2497-2504.	24.3	102
105	Mixed electrochemical “ferroelectric states in nanoscale ferroelectrics. <i>Nature Physics</i> , 2017, 13, 812-818.	11.8	102
106	Interplay between Ferroelastic and Metal-Insulator Phase Transitions in Strained Quasi-Two-Dimensional VO ₂ Nanoplatelets. <i>Nano Letters</i> , 2010, 10, 2003-2011.	9.5	101
107	Probing charge screening dynamics and electrochemical processes at the solid-liquid interface with electrochemical force microscopy. <i>Nature Communications</i> , 2014, 5, 3871.	13.2	101
108	Highly mobile ferroelastic domain walls in compositionally graded ferroelectric thin films. <i>Nature Materials</i> , 2016, 15, 549-556.	26.6	101

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109	Temperature dependence of polarization and charge dynamics on the BaTiO ₃ (100) surface by scanning probe microscopy. Applied Physics Letters, 2001, 78, 1116-1118.	3.2	100
110	Controlled manipulation of oxygen vacancies using nanoscale flexoelectricity. Nature Communications, 2017, 8, 615.	13.2	99
111	It's just the worry about not being able to control it! A qualitative study of living with overactive bladder. British Journal of Health Psychology, 2008, 13, 343-359.	3.6	98
112	Band Excitation in Scanning Probe Microscopy: Recognition and Functional Imaging. Annual Review of Physical Chemistry, 2014, 65, 519-536.	11.3	98
113	Single-domain multiferroic BiFeO ₃ films. Nature Communications, 2016, 7, 12712.	13.2	98
114	TCR sequencing paired with massively parallel 3â€² RNA-seq reveals clonotypic T cell signatures. Nature Immunology, 2019, 20, 1692-1699.	13.9	98
115	Decoupling Electrochemical Reaction and Diffusion Processes in Ionically-Conductive Solids on the Nanometer Scale. ACS Nano, 2010, 4, 7349-7357.	15.3	96
116	Domain wall conduction in multiaxial ferroelectrics. Physical Review B, 2012, 85, .	3.3	96
117	A review of molecular beam epitaxy of ferroelectric BaTiO ₃ films on Si, Ge and GaAs substrates and their applications. Science and Technology of Advanced Materials, 2015, 16, 036005.	6.1	96
118	Quantification of flexoelectricity in PbTiO ₃ /SrTiO ₃ superlattice polar vortices using machine learning and phase-field modeling. Nature Communications, 2017, 8, 1468.	13.2	95
119	Electromechanical imaging of biological systems with sub-10nm resolution. Applied Physics Letters, 2005, 87, 053901.	3.2	94
120	Quantification of surface displacements and electromechanical phenomena via dynamic atomic force microscopy. Nanotechnology, 2016, 27, 425707.	2.7	94
121	Resolution-function theory in piezoresponse force microscopy: Wall imaging, spectroscopy, and lateral resolution. Physical Review B, 2007, 75, .	3.3	93
122	Impact of Decision Rules and Non-cooperative Behaviors on Minimum Consensus Cost in Group Decision Making. Group Decision and Negotiation, 2021, 30, 1239-1260.	3.4	93
123	Nanoscale polarization manipulation and imaging of ferroelectric Langmuir-Blodgett polymer films. Applied Physics Letters, 2007, 90, 122904.	3.2	92
124	Nanoforging Single Layer MoSe ₂ Through Defect Engineering with Focused Helium Ion Beams. Scientific Reports, 2016, 6, 30481.	3.4	92
125	<i>In Situ</i> Observation of Oxygen Vacancy Dynamics and Ordering in the Epitaxial LaCoO ₃ System. ACS Nano, 2017, 11, 6942-6949.	15.3	92
126	Giant energy density in [001]-textured Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbZrO ₃ -PbTiO ₃ piezoelectric ceramics. Applied Physics Letters, 2013, 102, .	3.2	91

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127	Neuropathological relationship between major depression and dementia: A hypothetical model and review. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2016, 67, 51-57.	5.0	91
128	Beyond Condensed Matter Physics on the Nanoscale: The Role of Ionic and Electrochemical Phenomena in the Physical Functionalities of Oxide Materials. <i>ACS Nano</i> , 2012, 6, 10423-10437.	15.3	90
129	dnc-1/dynactin 1 Knockdown Disrupts Transport of Autophagosomes and Induces Motor Neuron Degeneration. <i>PLoS ONE</i> , 2013, 8, e54511.	2.5	90
130	Building Structures Atom by Atom via Electron Beam Manipulation. <i>Small</i> , 2018, 14, e1801771.	11.2	88
131	Effect of phase transition on the surface potential of the BaTiO ₃ (100) surface by variable temperature scanning surface potential microscopy. <i>Journal of Applied Physics</i> , 2000, 87, 3950-3957.	2.3	87
132	Nanoelectromechanics of piezoelectric indentation and applications to scanning probe microscopies of ferroelectric materials. <i>Philosophical Magazine</i> , 2005, 85, 1017-1051.	1.6	87
133	Potential and Impedance Imaging of Polycrystalline BiFeO ₃ Ceramics. <i>Journal of the American Ceramic Society</i> , 2002, 85, 3011-3017.	3.8	86
134	High Resolution Electromechanical Imaging of Ferroelectric Materials in a Liquid Environment by Piezoresponse Force Microscopy. <i>Physical Review Letters</i> , 2006, 96, 237602.	8.0	85
135	Microwave a.c. conductivity of domain walls in ferroelectric thin films. <i>Nature Communications</i> , 2016, 7, 11630.	13.2	85
136	Probing the Role of Single Defects on the Thermodynamics of Electric-Field Induced Phase Transitions. <i>Physical Review Letters</i> , 2008, 100, 155703.	8.0	84
137	Reduced Coercive Field in BiFeO ₃ Thin Films Through Domain Engineering. <i>Advanced Materials</i> , 2011, 23, 669-672.	24.3	84
138	Evaluation of ²¹⁰ Pb dating in lake sediments using stable Pb, Ambrosia pollen, and ¹³⁷ Cs. <i>Journal of Paleolimnology</i> , 1995, 13, 169-178.	1.5	82
139	Direct Observation of Capacitor Switching Using Planar Electrodes. <i>Advanced Functional Materials</i> , 2010, 20, 3466-3475.	16.5	82
140	Electromechanical detection in scanning probe microscopy: Tip models and materials contrast. <i>Journal of Applied Physics</i> , 2007, 102, .	2.3	81
141	Collective cell migration and metastases induced by an epithelial-to-mesenchymal transition in <i>Drosophila</i> intestinal tumors. <i>Nature Communications</i> , 2019, 10, 2311.	13.2	81
142	Atom-by-atom fabrication with electron beams. <i>Nature Reviews Materials</i> , 2019, 4, 497-507.	40.2	81
143	Fire up the atom forge. <i>Nature</i> , 2016, 539, 485-487.	36.2	81
144	Enhancing Ion Migration in Grain Boundaries of Hybrid Organic-Inorganic Perovskites by Chlorine. <i>Advanced Functional Materials</i> , 2017, 27, 1700749.	16.5	80

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145	Learning surface molecular structures via machine vision. Npj Computational Materials, 2017, 3, .	9.1	80
146	Association of short-term memory with a variant within DYX1C1 in developmental dyslexia. Genes, Brain and Behavior, 2007, 6, 640-646.	2.1	79
147	Local Electrochemical Functionality in Energy Storage Materials and Devices by Scanning Probe Microscopies: Status and Perspectives. Advanced Materials, 2010, 22, E193-209.	24.3	79
148	Atomically Resolved Mapping of Polarization and Electric Fields Across Ferroelectric/Oxide Interfaces by ZÄ€contrast Imaging. Advanced Materials, 2011, 23, 2474-2479.	24.3	79
149	Highly enhanced ferroelectricity in HfO ₂ -based ferroelectric thin film by light ion bombardment. Science, 2022, 376, 731-738.	20.9	79
150	Imaging physical phenomena with local probes: From electrons to photons. Reviews of Modern Physics, 2012, 84, 1343-1381.	46.3	78
151	Search for Top-Quark Partners with Charge $\langle mml:mrow \langle mml:mn \rangle 5 \langle /mml:mn \rangle \langle mml:mo \rangle / \langle /mml:mo \rangle \langle mml:mn \rangle 3 \langle /mml:mn \rangle \langle /mml:mrow \rangle \langle /mml:math \rangle$ in the Same-Sign Dilepton Final State. Physical Review Letters, 2014, 112, 171801.	8.0	78
152	AtomicÄ€Level Sculpting of Crystalline Oxides: Toward Bulk Nanofabrication with Single Atomic Plane Precision. Small, 2015, 11, 5895-5900.	11.2	78
153	Deconvolving distribution of relaxation times, resistances and inductance from electrochemical impedance spectroscopy via statistical model selection: Exploiting structural-sparsity regularization and data-driven parameter tuning. Electrochimica Acta, 2019, 313, 570-583.	5.4	78
154	Direct evidence of mesoscopic dynamic heterogeneities at the surfaces of ergodic ferroelectric relaxors. Physical Review B, 2010, 81, .	3.3	77
155	ThreeÄ€State Ferroelastic Switching and Large Electromechanical Responses in PbTiO ₃ Thin Films. Advanced Materials, 2017, 29, 1702069.	24.3	77
156	Review of Ferroelectric Domain Imaging by Piezoresponse Force Microscopy. , 2007, , 173-214.		77
157	Nanoscale Control of Phase Variants in Strain-Engineered BiFeO ₃ . Nano Letters, 2011, 11, 3346-3354.	9.5	76
158	Big data and deep data in scanning and electron microscopies: deriving functionality from multidimensional data sets. Advanced Structural and Chemical Imaging, 2015, 1, 6.	4.0	76
159	Building and exploring libraries of atomic defects in graphene: Scanning transmission electron and scanning tunneling microscopy study. Science Advances, 2019, 5, eaaw8989.	10.9	76
160	Chemical Robotics Enabled Exploration of Stability in Multicomponent Lead Halide Perovskites via Machine Learning. ACS Energy Letters, 2020, 5, 3426-3436.	18.4	76
161	Scalable Wood Hydrogel Membrane with Nanoscale Channels. ACS Nano, 2021, 15, 11244-11252.	15.3	76
162	Conductivity of twin-domain-wall/surface junctions in ferroelastics: Interplay of deformation potential, octahedral rotations, improper ferroelectricity, and flexoelectric coupling. Physical Review B, 2012, 86, .	3.3	75

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163	Carrier density modulation in a germanium heterostructure by ferroelectric switching. Nature Communications, 2015, 6, 6067.	13.2	75
164	Atomistic Screening Mechanism of Ferroelectric Surfaces: An In Situ Study of the Polar Phase in Ultrathin BaTiO ₃ Films Exposed to H ₂ O. Nano Letters, 2009, 9, 3720-3725.	9.5	74
165	Towards nanoscale electrical measurements in liquid by advanced KPFM techniques: a review. Reports on Progress in Physics, 2018, 81, 086101.	20.3	74
166	Local Phenomena in Oxides by Advanced Scanning Probe Microscopy. Journal of the American Ceramic Society, 2005, 88, 1077-1098.	3.8	73
167	Intrinsic single-domain switching in ferroelectric materials on a nearly ideal surface. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20204-20209.	7.6	73
168	Piezoresponse force spectroscopy of ferroelectric-semiconductor materials. Journal of Applied Physics, 2007, 102, 114108.	2.3	73
169	Rapid multidimensional data acquisition in scanning probe microscopy applied to local polarization dynamics and voltage dependent contact mechanics. Applied Physics Letters, 2008, 93, .	3.2	73
170	Li-ion dynamics and reactivity on the nanoscale. Materials Today, 2011, 14, 548-558.	18.1	73
171	Nanoscale electromechanics of piezoelectric materials with mobile charges: Size effects and nonlinearity of electromechanical response of SrTiO ₃ films. Physical Review B, 2011, 84, .	3.3	73
172	Deep Data Analysis of Conductive Phenomena on Complex Oxide Interfaces: Physics from Data Mining. ACS Nano, 2014, 8, 6449-6457.	15.3	73
173	Spatial resolution, information limit, and contrast transfer in piezoresponse force microscopy. Nanotechnology, 2006, 17, 3400-3411.	2.7	72
174	Nonlinear Phenomena in Multiferroic Nanocapacitors: Joule Heating and Electromechanical Effects. ACS Nano, 2011, 5, 9104-9112.	15.3	72
175	Transdermal fentanyl for the treatment of pain after major urological operations. European Journal of Clinical Pharmacology, 1991, 41, 17-21.	1.9	71
176	Materials contrast in piezoresponse force microscopy. Applied Physics Letters, 2006, 88, 232904.	3.2	71
177	Ultrathin limit and dead-layer effects in local polarization switching of BiFeO ₃ films. Physical Review B, 2012, 85, .	3.3	71
178	Atomic-scale observation of structural and electronic orders in the layered compound $\hat{1}\pm$ -RuCl ₃ . Nature Communications, 2016, 7, 13774.	13.2	71
179	Locally Controlled Cu-Ion Transport in Layered Ferroelectric CuInP ₂ S ₆ . ACS Applied Materials & Interfaces, 2018, 10, 27188-27194.	8.3	71
180	Scanning impedance microscopy of electroactive interfaces. Applied Physics Letters, 2001, 78, 1306-1308.	3.2	70

#	ARTICLE	IF	CITATIONS
181	Quantitative analysis of nanoscale switching in SrBi ₂ Ta ₂ O ₉ thin films by piezoresponse force microscopy. <i>Applied Physics Letters</i> , 2004, 85, 795-797.	3.2	70
182	Bioelectromechanical imaging by scanning probe microscopy: Galvani's experiment at the nanoscale. <i>Ultramicroscopy</i> , 2006, 106, 334-340.	1.9	70
183	Mesoscopic Metal-Insulator Transition at Ferroelastic Domain Walls in VO ₂ . <i>ACS Nano</i> , 2010, 4, 4412-4419.	15.3	70
184	Mapping Irreversible Electrochemical Processes on the Nanoscale: Ionic Phenomena in Li Ion Conductive Glass Ceramics. <i>Nano Letters</i> , 2011, 11, 4161-4167.	9.5	70
185	Breaking the Time Barrier in Kelvin Probe Force Microscopy: Fast Free Force Reconstruction Using the G-Mode Platform. <i>ACS Nano</i> , 2017, 11, 8717-8729.	15.3	70
186	Title is missing!. <i>European Journal of Plant Pathology</i> , 2000, 106, 667-680.	1.7	69
187	Influence of a Single Grain Boundary on Domain Wall Motion in Ferroelectrics. <i>Advanced Functional Materials</i> , 2014, 24, 1409-1417.	16.5	69
188	Size-effect in layered ferroelectric CuInP ₂ S ₆ . <i>Applied Physics Letters</i> , 2016, 109, .	3.2	69
189	Ferroelectric domain wall pinning at a bicrystal grain boundary in bismuth ferrite. <i>Applied Physics Letters</i> , 2008, 93, .	3.2	68
190	Resolution theory, and static and frequency-dependent cross-talk in piezoresponse force microscopy. <i>Nanotechnology</i> , 2010, 21, 405703.	2.7	68
191	Electronic Properties of Isosymmetric Phase Boundaries in Highly Strained Ca-Doped BiFeO ₃ . <i>Advanced Materials</i> , 2014, 26, 4376-4380.	24.3	68
192	Pyroelectric response of ferroelectric nanowires: Size effect and electric energy harvesting. <i>Journal of Applied Physics</i> , 2010, 108, .	2.3	67
193	Defect-Mediated Polarization Switching in Ferroelectrics and Related Materials: From Mesoscopic Mechanisms to Atomistic Control. <i>Advanced Materials</i> , 2010, 22, 314-322.	24.3	67
194	Investigational PI3K/AKT/mTOR inhibitors in development for endometrial cancer. <i>Expert Opinion on Investigational Drugs</i> , 2019, 28, 131-142.	4.0	67
195	Growth of Carbon Nanofibers on Tipless Cantilevers for High Resolution Topography and Magnetic Force Imaging. <i>Nano Letters</i> , 2004, 4, 2157-2161.	9.5	66
196	Realising B2B e-commerce benefits: the link with IT maturity, evaluation practices, and B2BEC adoption readiness. <i>European Journal of Information Systems</i> , 2007, 16, 806-819.	9.1	66
197	Correlated polarization switching in the proximity of a domain wall. <i>Physical Review B</i> , 2010, 82, .	3.3	66
198	Big Data Analytics for Scanning Transmission Electron Microscopy Ptychography. <i>Scientific Reports</i> , 2016, 6, 26348.	3.4	66

#	ARTICLE	IF	CITATIONS
199	Machine learning in scanning transmission electron microscopy. Nature Reviews Methods Primers, 2022, 2, .	18.8	66
200	Unraveling Deterministic Mesoscopic Polarization Switching Mechanisms: Spatially Resolved Studies of a Tilt Grain Boundary in Bismuth Ferrite. Advanced Functional Materials, 2009, 19, 2053-2063.	16.5	65
201	Thermodynamics of nanodomain formation and breakdown in scanning probe microscopy: Landau-Ginzburg-Devonshire approach. Physical Review B, 2009, 80, .	3.3	65
202	Electromechanical probing of ionic currents in energy storage materials. Applied Physics Letters, 2010, 96, .	3.2	65
203	Probing Surface and Bulk Electrochemical Processes on the LaAlO ₃ /SrTiO ₃ Interface. ACS Nano, 2012, 6, 3841-3852.	15.3	65
204	Humidity effects on tip-induced polarization switching in lithium niobate. Applied Physics Letters, 2014, 104, 092908.	3.2	65
205	Identification of phases, symmetries and defects through local crystallography. Nature Communications, 2015, 6, 7801.	13.2	65
206	Measurement of longitudinal flow decorrelations in Pb+Pb collisions at $\sqrt{s_{\text{NN}}}=2.76$ and 5.0. European Physical Journal C, 2018, 78, 142.	4.0	65
207	Nanoelectromechanics of polarization switching in piezoresponse force microscopy. Journal of Applied Physics, 2005, 97, 074305.	2.3	64
208	Real space imaging of the microscopic origins of the ultrahigh dielectric constant in polycrystalline CaCu ₃ Ti ₄ O ₁₂ . Applied Physics Letters, 2005, 86, 102902.	3.2	64
209	Anisotropic conductivity of uncharged domain walls in BiFeO ₃ . Physical Review B, 2012, 86, .	3.3	64
210	Open loop Kelvin probe force microscopy with single and multi-frequency excitation. Nanotechnology, 2013, 24, 475702.	2.7	64
211	Dynamic scan control in STEM: spiral scans. Advanced Structural and Chemical Imaging, 2016, 2, .	4.0	64
212	Automated and Autonomous Experiments in Electron and Scanning Probe Microscopy. ACS Nano, 2021, 15, 12604-12627.	15.3	64
213	Current and surface charge modified hysteresis loops in ferroelectric thin films. Journal of Applied Physics, 2015, 118, .	2.3	63
214	Possible electrochemical origin of ferroelectricity in HfO ₂ thin films. Journal of Alloys and Compounds, 2020, 830, 153628.	5.7	63
215	Are ericoid and ectomycorrhizal fungi part of a common guild?. New Phytologist, 2004, 164, 7-10.	7.8	62
216	Electronic transport imaging in a multiwire SnO ₂ chemical field-effect transistor device. Journal of Applied Physics, 2005, 98, 044503.	2.3	62

#	ARTICLE	IF	CITATIONS
217	Direct Mapping of Ionic Transport in a Si Anode on the Nanoscale: Time Domain Electrochemical Strain Spectroscopy Study. <i>ACS Nano</i> , 2011, 5, 9682-9695.	15.3	62
218	The Rural Obstetric Workforce in US Hospitals: Challenges and Opportunities. <i>Journal of Rural Health</i> , 2015, 31, 365-372.	2.6	62
219	Occult Hepatitis B Virus Infection in Nigerian Blood Donors and Hepatitis B Virus Transmission Risks. <i>PLoS ONE</i> , 2015, 10, e0131912.	2.5	62
220	In situ tracking of the nanoscale expansion of porous carbon electrodes. <i>Energy and Environmental Science</i> , 2013, 6, 225-231.	32.2	61
221	Altered Intestinal Morphology and Microbiota Composition in the Autism Spectrum Disorders Associated SHANK3 Mouse Model. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2134.	4.2	61
222	Surface stability of epitaxial SrRuO ₃ films. <i>Surface Science</i> , 2005, 581, 118-132.	2.0	60
223	Surface effect on domain wall width in ferroelectrics. <i>Journal of Applied Physics</i> , 2009, 106, .	2.3	60
224	CYTOGENETIC NOTES ON CHROMOSOMAL INTERCHANGES IN BARLEY. <i>Hereditas</i> , 1956, 42, 467-482.	1.6	60
225	Challenges in Ceramic Science: A Report from the Workshop on Emerging Research Areas in Ceramic Science. <i>Journal of the American Ceramic Society</i> , 2012, 95, 3699-3712.	3.8	60
226	Symmetry Breaking and Electrical Frustration during Tip-Induced Polarization Switching in the Nonpolar Cut of Lithium Niobate Single Crystals. <i>ACS Nano</i> , 2015, 9, 769-777.	15.3	60
227	Mutator Transposase Is Widespread in the Grasses. <i>Plant Physiology</i> , 2001, 125, 1293-1303.	5.1	59
228	Local Detection of Activation Energy for Ionic Transport in Lithium Cobalt Oxide. <i>Nano Letters</i> , 2012, 12, 3399-3403.	9.5	59
229	Switch from tenofovir to raltegravir increases low bone mineral density and decreases markers of bone turnover over 48 weeks. <i>HIV Medicine</i> , 2014, 15, 373-380.	2.3	59
230	Fundamental aspects of electric double layer force-distance measurements at liquid-solid interfaces using atomic force microscopy. <i>Scientific Reports</i> , 2016, 6, 32389.	3.4	59
231	Watching domains grow: <i>in-situ</i> studies of polarization switching by combined scanning probe and scanning transmission electron microscopy. <i>Journal of Applied Physics</i> , 2011, 110, .	2.3	58
232	Focusing light on flexoelectricity. <i>Nature Nanotechnology</i> , 2015, 10, 916-917.	30.5	58
233	Ferroionic states in ferroelectric thin films. <i>Physical Review B</i> , 2017, 95, .	3.3	58
234	Surface potential at surface-interface junctions in SrTiO ₃ bicrystals. <i>Physical Review B</i> , 2000, 62, 10419-10430.	3.3	57

#	ARTICLE	IF	CITATIONS
235	Scanning impedance microscopy of an active Schottky barrier diode. <i>Journal of Applied Physics</i> , 2002, 91, 832-839.	2.3	57
236	Switching spectroscopy piezoresponse force microscopy of polycrystalline capacitor structures. <i>Applied Physics Letters</i> , 2009, 94, .	3.2	57
237	Finite size and intrinsic field effect on the polar-active properties of ferroelectric-semiconductor heterostructures. <i>Physical Review B</i> , 2010, 81, .	3.3	57
238	Role of measurement voltage on hysteresis loop shape in Piezoresponse Force Microscopy. <i>Applied Physics Letters</i> , 2012, 101, .	3.2	57
239	Machine learning-enabled identification of material phase transitions based on experimental data: Exploring collective dynamics in ferroelectric relaxors. <i>Science Advances</i> , 2018, 4, eaap8672.	10.9	57
240	Imaging mechanism of piezoresponse force microscopy in capacitor structures. <i>Applied Physics Letters</i> , 2008, 92, .	3.2	56
241	Interface dipole between two metallic oxides caused by localized oxygen vacancies. <i>Physical Review B</i> , 2012, 86, .	3.3	56
242	Experimental discovery of structure-property relationships in ferroelectric materials via active learning. <i>Nature Machine Intelligence</i> , 2022, 4, 341-350.	15.2	56
243	Domain nucleation and hysteresis loop shape in piezoresponse force spectroscopy. <i>Applied Physics Letters</i> , 2006, 89, 192901.	3.2	55
244	The influence of 180° ferroelectric domain wall width on the threshold field for wall motion. <i>Journal of Applied Physics</i> , 2008, 104, 084107.	2.3	55
245	Epitaxial Bi ₅ Ti ₃ FeO ₁₅ CoFe ₂ O ₄ Pillar Matrix Multiferroic Nanostructures. <i>ACS Nano</i> , 2013, 7, 11079-11086.	15.3	55
246	Angiotensin-converting enzyme 2 regulates mitochondrial function in pancreatic Î²-cells. <i>Biochemical and Biophysical Research Communications</i> , 2018, 495, 860-866.	2.2	55
247	Machine learning for high-throughput experimental exploration of metal halide perovskites. <i>Joule</i> , 2021, 5, 2797-2822.	24.7	55
248	Electrical Control of Multiferroic Orderings in Mixed-Phase BiFeO ₃ Films. <i>Advanced Materials</i> , 2012, 24, 3070-3075.	24.3	54
249	Electromechanical Actuation and Current-Induced Metastable States in Suspended Single-Crystalline VO ₂ Nanoplatelets. <i>Nano Letters</i> , 2011, 11, 3065-3073.	9.5	53
250	Near-field microwave scanning probe imaging of conductivity inhomogeneities in CVD graphene. <i>Nanotechnology</i> , 2012, 23, 385706.	2.7	53
251	Piezoelectric domain walls in van der Waals antiferroelectric CuInP ₂ Se ₆ . <i>Nature Communications</i> , 2020, 11, 3623.	13.2	53
252	Electromechanical imaging of biomaterials by scanning probe microscopy. <i>Journal of Structural Biology</i> , 2006, 153, 151-159.	2.9	52

#	ARTICLE	IF	CITATIONS
253	Polaprezinc (Zinc L-Carnosine) Is a Potent Inducer of Anti-oxidative Stress Enzyme, Heme Oxygenase (HO)-1 a New Mechanism of Gastric Mucosal Protection. Journal of Pharmacological Sciences, 2009, 110, 285-294.	2.6	52
254	Composition- and pressure-induced ferroelectric to antiferroelectric phase transitions in Sm-doped BiFeO ₃ system. Applied Physics Letters, 2015, 106, .	3.2	52
255	Piezoelectric nanoindentation. Journal of Materials Research, 2006, 21, 552-556.	2.6	51
256	Spatially resolved mapping of ferroelectric switching behavior in self-assembled multiferroic nanostructures: strain, size, and interface effects. Nanotechnology, 2007, 18, 405701.	2.7	51
257	The piezoresponse force microscopy of surface layers and thin films: Effective response and resolution function. Journal of Applied Physics, 2007, 102, 074105.	2.3	51
258	Direct Probing of Charge Injection and Polarization Controlled Ionic Mobility on Ferroelectric LiNbO ₃ Surfaces. Advanced Materials, 2014, 26, 958-963.	24.3	51
259	A bridge for accelerating materials by design. Npj Computational Materials, 2015, 1, .	9.1	51
260	Tuning the polar states of ferroelectric films via surface charges and flexoelectricity. Acta Materialia, 2017, 137, 85-92.	8.0	51
261	Intrinsic Nucleation Mechanism and Disorder Effects in Polarization Switching on Ferroelectric Surfaces. Physical Review Letters, 2009, 102, 017601.	8.0	50
262	Structural phase transitions and electronic phenomena at 180-degree domain walls in rhombohedral BaTiO ₃ . Physical Review B, 2013, 87, .	3.3	50
263	Dual harmonic Kelvin probe force microscopy at the graphene liquid interface. Applied Physics Letters, 2014, 104, .	3.2	50
264	Ionic field effect and memristive phenomena in single-point ferroelectric domain switching. Nature Communications, 2014, 5, 4545.	13.2	50
265	Complete information acquisition in dynamic force microscopy. Nature Communications, 2015, 6, 6550.	13.2	50
266	Genotoxic stress/p53-induced DNAJB9 inhibits the pro-apoptotic function of p53. Cell Death and Differentiation, 2015, 22, 86-95.	11.3	50
267	Giant negative electrostriction and dielectric tunability in a van der Waals layered ferroelectric. Physical Review Materials, 2019, 3, .	2.5	50
268	Local bias-induced phase transitions. Materials Today, 2008, 11, 16-27.	18.1	49
269	Seeing through Walls at the Nanoscale: Microwave Microscopy of Enclosed Objects and Processes in Liquids. ACS Nano, 2016, 10, 3562-3570.	15.3	49
270	Effects of Dopant Ionic Radius on Cerium Reduction in Epitaxial Cerium Oxide Thin Films. Journal of Physical Chemistry C, 2017, 121, 8841-8849.	3.3	49

#	ARTICLE	IF	CITATIONS
271	Direct atomic fabrication and dopant positioning in Si using electron beams with active real-time image-based feedback. <i>Nanotechnology</i> , 2018, 29, 255303.	2.7	49
272	Exploring order parameters and dynamic processes in disordered systems via variational autoencoders. <i>Science Advances</i> , 2021, 7, .	10.9	49
273	Space- and Time-Resolved Mapping of Ionic Dynamic and Electroresistive Phenomena in Lateral Devices. <i>ACS Nano</i> , 2013, 7, 6806-6815.	15.3	48
274	Full data acquisition in Kelvin Probe Force Microscopy: Mapping dynamic electric phenomena in real space. <i>Scientific Reports</i> , 2016, 6, 30557.	3.4	48
275	Putting Nanoarmors on Your Shell Si@C Nanoparticles: A Reliable Engineering Way To Build Better Si-Based Anodes for Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24157-24163.	8.3	48
276	Nanoscale Control of Oxygen Defects and Metal-Insulator Transition in Epitaxial Vanadium Dioxides. <i>ACS Nano</i> , 2018, 12, 7159-7166.	15.3	48
277	Real space mapping of polarization dynamics and hysteresis loop formation in relaxor-ferroelectric PbMg _{1/3} Nb _{2/3} O ₃ -PbTiO ₃ solid solutions. <i>Journal of Applied Physics</i> , 2010, 108, .	2.3	47
278	Pressure-induced switching in ferroelectrics: Phase-field modeling, electrochemistry, flexoelectric effect, and bulk vacancy dynamics. <i>Physical Review B</i> , 2017, 96, .	3.3	47
279	Controlling Polarization Dynamics in a Liquid Environment: From Localized to Macroscopic Switching in Ferroelectrics. <i>Physical Review Letters</i> , 2007, 98, 247603.	8.0	46
280	Cobalt monoxide-doped porous graphitic carbon microspheres for supercapacitor application. <i>Scientific Reports</i> , 2013, 3, 2925.	3.4	46
281	Quantification of in-contact probe-sample electrostatic forces with dynamic atomic force microscopy. <i>Nanotechnology</i> , 2017, 28, 065704.	2.7	46
282	Deep data analysis via physically constrained linear unmixing: universal framework, domain examples, and a community-wide platform. <i>Advanced Structural and Chemical Imaging</i> , 2018, 4, 6.	4.0	46
283	Deep neural networks for understanding noisy data applied to physical property extraction in scanning probe microscopy. <i>Npj Computational Materials</i> , 2019, 5, .	9.1	46
284	Challenges in conducting qualitative research in health: A conceptual paper. <i>Iranian Journal of Nursing and Midwifery Research</i> , 2015, 20, 635.	0.5	46
285	Designing piezoelectric films for micro electromechanical systems. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011, 58, 1782-1792.	3.2	45
286	Controlling magnetoelectric coupling by nanoscale phase transformation in strain engineered bismuth ferrite. <i>Nanoscale</i> , 2012, 4, 3175.	5.8	45
287	Dabigatran for periprocedural anticoagulation following radiofrequency ablation for atrial fibrillation: a meta-analysis of observational studies. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2013, 37, 213-221.	1.4	45
288	Electrostrictive and electrostatic responses in contact mode voltage modulated scanning probe microscopies. <i>Applied Physics Letters</i> , 2014, 104, 232901.	3.2	45

#	ARTICLE	IF	CITATIONS
289	Tip-induced domain growth on the non-polar cuts of lithium niobate single-crystals. Applied Physics Letters, 2015, 106, .	3.2	45
290	Giant elastic tunability in strained BiFeO ₃ near an electrically induced phase transition. Nature Communications, 2015, 6, 8985.	13.2	45
291	Quantitative Tyrosine Phosphoproteomics of Epidermal Growth Factor Receptor (EGFR) Tyrosine Kinase Inhibitor-treated Lung Adenocarcinoma Cells Reveals Potential Novel Biomarkers of Therapeutic Response. Molecular and Cellular Proteomics, 2017, 16, 891-910.	3.9	45
292	Promoting sustainable human development in engineering: Assessment of online courses within continuing professional development strategies. Journal of Cleaner Production, 2018, 172, 4286-4302.	9.5	45
293	Deciphering Non-coding RNAs in Cardiovascular Health and Disease. Frontiers in Cardiovascular Medicine, 2018, 5, 73.	2.5	45
294	Direct Observation of Photoinduced Ion Migration in Lead Halide Perovskites. Advanced Functional Materials, 2021, 31, 2008777.	16.5	45
295	Screening and retardation effects on $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 180 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \text{\AA}^\circ \langle \text{mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -domain wall motion in ferroelectrics: Wall velocity and nonlinear dynamics due to polarization-screening charge interactions. Physical Review B, 2008, 78, .	3.3	44
296	Oxygen-Induced Surface Reconstruction of SrRuO ₃ and Its Effect on the BaTiO ₃ Interface. ACS Nano, 2010, 4, 4190-4196.	15.3	44
297	Domain Wall Motion Across Various Grain Boundaries in Ferroelectric Thin Films. Journal of the American Ceramic Society, 2015, 98, 1848-1857.	3.8	44
298	Exploring Anomalous Polarization Dynamics in Organometallic Halide Perovskites. Advanced Materials, 2018, 30, 1705298.	24.3	44
299	Die Stereochemie des $\langle i \rangle \text{\AA}^\pm \langle /i \rangle$ \AA -Ferrocenyl \AA -Äthyl \AA -Kations. Angewandte Chemie, 1970, 82, 77-78.	2.1	43
300	Local thermomechanical characterization of phase transitions using band excitation atomic force acoustic microscopy with heated probe. Applied Physics Letters, 2008, 93, 073104.	3.2	43
301	Nanoscale polarization profile across a 180 \AA ferroelectric domain wall extracted by quantitative piezoelectric force microscopy. Journal of Applied Physics, 2008, 104, .	2.3	43
302	Interaction of a $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 180 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \text{\AA}^\circ \langle \text{mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ ferroelectric domain wall with a biased scanning probe microscopy tip: Effective wall geometry and thermodynamics in Ginzburg-Landau-Devonshire theory. Physical Review B, 2008, 78, .	3.3	43
303	Electromechanics on the Nanometer Scale: Emerging Phenomena, Devices, and Applications. MRS Bulletin, 2009, 34, 634-642.	4.2	43
304	Phases and Interfaces from Real Space Atomically Resolved Data: Physics-Based Deep Data Image Analysis. Nano Letters, 2016, 16, 5574-5581.	9.5	43
305	Magnetostriction-polarization coupling in multiferroic Mn ₂ MnWO ₆ . Nature Communications, 2017, 8, 2037.	13.2	43
306	Towards local electromechanical probing of cellular and biomolecular systems in a liquid environment. Nanotechnology, 2007, 18, 424020.	2.7	42

#	ARTICLE	IF	CITATIONS
307	Indentation of spherical and conical punches into piezoelectric half-space with frictional sliding: Applications to scanning probe microscopy. <i>Physical Review B</i> , 2007, 76, .	3.3	42
308	Probing the temperature dependence of the mechanical properties of polymers at the nanoscale with band excitation thermal scanning probe microscopy. <i>Nanotechnology</i> , 2009, 20, 395709.	2.7	42
309	Quantitative Description of Crystal Nucleation and Growth from in Situ Liquid Scanning Transmission Electron Microscopy. <i>ACS Nano</i> , 2015, 9, 11784-11791.	15.3	42
310	Amniotic mesenchymal cells from pre-eclamptic placentae maintain immunomodulatory features as healthy controls. <i>Journal of Cellular and Molecular Medicine</i> , 2016, 20, 157-169.	3.6	42
311	Time-Resolved Electrical Scanning Probe Microscopy of Layered Perovskites Reveals Spatial Variations in Photoinduced Ionic and Electronic Carrier Motion. <i>ACS Nano</i> , 2019, 13, 2812-2821.	15.3	42
312	Reducing Time to Discovery: Materials and Molecular Modeling, Imaging, Informatics, and Integration. <i>ACS Nano</i> , 2021, 15, 3971-3995.	15.3	42
313	Hypothesis Learning in Automated Experiment: Application to Combinatorial Materials Libraries. <i>Advanced Materials</i> , 2022, 34, e2201345.	24.3	42
314	Contrast Mechanism Maps for Piezoresponse Force Microscopy. <i>Journal of Materials Research</i> , 2002, 17, 936-939.	2.6	41
315	Direct Mapping of Ion Diffusion Times on LiCoO ₂ Surfaces with Nanometer Resolution. <i>Journal of the Electrochemical Society</i> , 2011, 158, A982.	2.9	41
316	Virtual Electrochemical Strain Microscopy of Polycrystalline LiCoO ₂ Films. <i>Journal of the Electrochemical Society</i> , 2011, 158, A1083.	2.9	41
317	Fast Scanning Probe Microscopy via Machine Learning: Non-Rectangular Scans with Compressed Sensing and Gaussian Process Optimization. <i>Small</i> , 2020, 16, e2002878.	11.2	41
318	High-Throughput Study of Antisolvents on the Stability of Multicomponent Metal Halide Perovskites through Robotics-Based Synthesis and Machine Learning Approaches. <i>Journal of the American Chemical Society</i> , 2021, 143, 19945-19955.	14.6	41
319	AtomAI framework for deep learning analysis of image and spectroscopy data in electron and scanning probe microscopy. <i>Nature Machine Intelligence</i> , 2022, 4, 1101-1112.	15.2	41
320	Extrinsic size effect in piezoresponse force microscopy of thin films. <i>Physical Review B</i> , 2007, 76, .	3.3	40
321	Electrical Modulation of the Local Conduction at Oxide Tubular Interfaces. <i>ACS Nano</i> , 2013, 7, 8627-8633.	15.3	40
322	Phosphorus-based and Antumescient Flame Retardants. , 2014, , 221-254.		40
323	Strain-Based In Situ Study of Anion and Cation Insertion into Porous Carbon Electrodes with Different Pore Sizes. <i>Advanced Energy Materials</i> , 2014, 4, 1300683.	22.2	40
324	Defect-driven flexochemical coupling in thin ferroelectric films. <i>Physical Review B</i> , 2018, 97, .	3.3	40

#	ARTICLE	IF	CITATIONS
325	Free-standing Ferroelectric Nanotubes Processed via Soft-template Infiltration. <i>Advanced Materials</i> , 2012, 24, 1160-1165.	24.3	39
326	Universal emergence of spatially modulated structures induced by flexoantiferrodistortive coupling in multiferroics. <i>Physical Review B</i> , 2013, 88, .	3.3	39
327	Big-Data Reflection High Energy Electron Diffraction Analysis for Understanding Epitaxial Film Growth Processes. <i>ACS Nano</i> , 2014, 8, 10899-10908.	15.3	39
328	Role of Associated Defects in Oxygen Ion Conduction and Surface Exchange Reaction for Epitaxial Samaria-Doped Ceria Thin Films as Catalytic Coatings. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 14613-14621.	8.3	39
329	Atomic intercalation to measure adhesion of graphene on graphite. <i>Nature Communications</i> , 2016, 7, 13263.	13.2	39
330	Labyrinthine domains in ferroelectric nanoparticles: Manifestation of a gradient-induced morphological transition. <i>Physical Review B</i> , 2018, 98, .	3.3	39
331	Alignment of Polarization against an Electric Field in van der Waals Ferroelectrics. <i>Physical Review Applied</i> , 2020, 13, .	3.8	39
332	Defect-induced asymmetry of local hysteresis loops on BiFeO ₃ surfaces. <i>Journal of Materials Science</i> , 2009, 44, 5095-5101.	3.7	38
333	Surface polar states and pyroelectricity in ferroelastics induced by flexo-rotational field. <i>Applied Physics Letters</i> , 2012, 100, .	3.2	38
334	Kelvin probe force microscopy in liquid using electrochemical force microscopy. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 201-214.	2.9	38
335	Revealing ferroelectric switching character using deep recurrent neural networks. <i>Nature Communications</i> , 2019, 10, 4809.	13.2	38
336	Different Ability of Clenbuterol and Salbutamol to Block Sodium Channels Predicts Their Therapeutic Use in Muscle Excitability Disorders. <i>Molecular Pharmacology</i> , 2003, 63, 659-670.	2.3	37
337	Local electronic transport at grain boundaries in Nb-doped SrTiO ₃ . <i>Physical Review B</i> , 2004, 70, .	3.3	37
338	Effect of ferroelastic twin walls on local polarization switching: Phase-field modeling. <i>Applied Physics Letters</i> , 2008, 93, .	3.2	37
339	Double-Layer Mediated Electromechanical Response of Amyloid Fibrils in Liquid Environment. <i>ACS Nano</i> , 2010, 4, 689-698.	15.3	37
340	Ferritin-like family proteins in the anaerobe <i>Bacteroides fragilis</i> : when an oxygen storm is coming, take your iron to the shelter. <i>BioMetals</i> , 2013, 26, 577-591.	4.0	37
341	Bond competition and phase evolution on the IrTe ₂ surface. <i>Nature Communications</i> , 2014, 5, 5358.	13.2	37
342	Probing Local Bias-Induced Transitions Using Photothermal Excitation Contact Resonance Atomic Force Microscopy and Voltage Spectroscopy. <i>ACS Nano</i> , 2015, 9, 1848-1857.	15.3	37

#	ARTICLE	IF	CITATIONS
343	Multifrequency spectrum analysis using fully digital G Mode-Kelvin probe force microscopy. <i>Nanotechnology</i> , 2016, 27, 105706.	2.7	37
344	Manifold learning of four-dimensional scanning transmission electron microscopy. <i>Npj Computational Materials</i> , 2019, 5, .	9.1	37
345	Ensemble learning-iterative training machine learning for uncertainty quantification and automated experiment in atom-resolved microscopy. <i>Npj Computational Materials</i> , 2021, 7, .	9.1	37
346	Bayesian Active Learning for Scanning Probe Microscopy: From Gaussian Processes to Hypothesis Learning. <i>ACS Nano</i> , 2022, 16, 13492-13512.	15.3	37
347	Spectroscopic imaging in piezoresponse force microscopy: New opportunities for studying polarization dynamics in ferroelectrics and multiferroics. <i>MRS Communications</i> , 2012, 2, 61-73.	1.8	36
348	Exploring Mesoscopic Physics of Vacancy-Ordered Systems through Atomic Scale Observations of Topological Defects. <i>Physical Review Letters</i> , 2012, 109, 065702.	8.0	36
349	Effect of Doping on Surface Reactivity and Conduction Mechanism in Samarium-Doped Ceria Thin Films. <i>ACS Nano</i> , 2014, 8, 12494-12501.	15.3	36
350	Low temperature dependent ferroelectric resistive switching in epitaxial BiFeO ₃ films. <i>Applied Physics Letters</i> , 2014, 104, .	3.2	36
351	Deterministic arbitrary switching of polarization in a ferroelectric thin film. <i>Nature Communications</i> , 2014, 5, 4971.	13.2	36
352	Paving the way to nanoionics: atomic origin of barriers for ionic transport through interfaces. <i>Scientific Reports</i> , 2015, 5, 17229.	3.4	36
353	Topological defects in electric double layers of ionic liquids at carbon interfaces. <i>Nano Energy</i> , 2015, 15, 737-745.	16.5	36
354	Big data in reciprocal space: Sliding fast Fourier transforms for determining periodicity. <i>Applied Physics Letters</i> , 2015, 106, .	3.2	36
355	Enhancing interfacial magnetization with a ferroelectric. <i>Physical Review B</i> , 2016, 94, .	3.3	36
356	Nanoscale mapping of heterogeneity of the polarization reversal in lead-free relaxor ferroelectric ceramic composites. <i>Nanoscale</i> , 2016, 8, 2168-2176.	5.8	36
357	Ferroelectricity induced by oxygen vacancies in relaxors with perovskite structure. <i>Physical Review B</i> , 2018, 98, .	3.3	36
358	Time resolved surface photovoltage measurements using a big data capture approach to KPFM. <i>Nanotechnology</i> , 2018, 29, 445703.	2.7	36
359	Non-Hermitian Floquet second order topological insulators in periodically quenched lattices. <i>Physical Review B</i> , 2020, 102, .	3.3	36
360	Androgen receptor mutants detected in recurrent prostate cancer exhibit diverse functional characteristics. <i>Prostate</i> , 2005, 63, 395-406.	2.3	35

#	ARTICLE	IF	CITATIONS
361	Simultaneous elastic and electromechanical imaging by scanning probe microscopy: Theory and applications to ferroelectric and biological materials. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2005, 23, 2102.	1.6	35
362	High-resolution imaging of proteins in human teeth by scanning probe microscopy. <i>Biochemical and Biophysical Research Communications</i> , 2007, 352, 142-146.	2.2	35
363	Disorder Identification in Hysteresis Data: Recognition Analysis of the Random-Bond Random-Field Ising Model. <i>Physical Review Letters</i> , 2009, 103, 157203.	8.0	35
364	Piezoelectric indentation of a flat circular punch accompanied by frictional sliding and applications to scanning probe microscopy. <i>International Journal of Engineering Science</i> , 2009, 47, 221-239.	5.1	35
365	Spatial distribution of relaxation behavior on the surface of a ferroelectric relaxor in the ergodic phase. <i>Applied Physics Letters</i> , 2009, 95, 142902.	3.2	35
366	Spatially resolved probing of Preisach density in polycrystalline ferroelectric thin films. <i>Journal of Applied Physics</i> , 2010, 108, .	2.3	35
367	Effect of storage time and heat processing on the volatile profile of Senegalese sole (<i>Solea</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 5	8.4	35
368	Mapping internal structure of coal by confocal micro-Raman spectroscopy and scanning microwave microscopy. <i>Fuel</i> , 2014, 126, 32-37.	6.6	35
369	Mitigating e-beam-induced hydrocarbon deposition on graphene for atomic-scale scanning transmission electron microscopy studies. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2018, 36, .	1.3	35
370	Compressed Sensing of Scanning Transmission Electron Microscopy (STEM) With Nonrectangular Scans. <i>Microscopy and Microanalysis</i> , 2018, 24, 623-633.	0.4	35
371	Lake Victoria fisheries: Outlook and management. <i>Lakes and Reservoirs: Research and Management</i> , 2018, 23, 152-162.	0.9	35
372	Piezoresponse amplitude and phase quantified for electromechanical characterization. <i>Journal of Applied Physics</i> , 2020, 128, .	2.3	35
373	Electron-beam introduction of heteroatomic Pt-Si structures in graphene. <i>Carbon</i> , 2020, 161, 750-757.	10.7	35
374	Probe Sonicated Synthesis of Bismuth Oxide (Bi ₂ O ₃): Photocatalytic Application and Electrochemical Sensing of Ascorbic Acid and Lead. <i>Journal of Nanomaterials</i> , 2022, 2022, 1-13.	2.8	35
375	Equivalent Alternate Solutions for the Tour Scheduling Problem*. <i>Decision Sciences</i> , 1991, 22, 985-1007.	3.9	34
376	Tip-gating effect in scanning impedance microscopy of nanoelectronic devices. <i>Applied Physics Letters</i> , 2002, 81, 5219-5221.	3.2	34
377	Correlation length of hydrophobic polyelectrolyte solutions. <i>Europhysics Letters</i> , 2003, 62, 588-594.	2.0	34
378	Correlative Multimodal Probing of Ionically-Mediated Electromechanical Phenomena in Simple Oxides. <i>Scientific Reports</i> , 2013, 3, 2924.	3.4	34

#	ARTICLE	IF	CITATIONS
379	High primary resistance to metronidazole and levofloxacin, and a moderate resistance to clarithromycin in <i>Helicobacter pylori</i> isolated from Karnataka patients. <i>Gut Pathogens</i> , 2019, 11, 21.	3.9	34
380	Storage Characteristics of Fresh Swordfish Steaks Stored in Carbon Dioxide-Enriched Controlled (Flow-Through) Atmospheres. <i>Journal of Food Protection</i> , 1983, 46, 434-440.	1.8	33
381	Influence of the Drying Technique on the Structure of Silica Gels. <i>Journal of Sol-Gel Science and Technology</i> , 1999, 15, 31-35.	2.3	33
382	Functional recognition imaging using artificial neural networks: applications to rapid cellular identification via broadband electromechanical response. <i>Nanotechnology</i> , 2009, 20, 405708.	2.7	33
383	Stiffness relations for piezoelectric indentation of flat and non-flat punches of arbitrary planform: Applications to probing nanoelectromechanical properties of materials. <i>Journal of the Mechanics and Physics of Solids</i> , 2009, 57, 673-688.	4.9	33
384	Morphology Mapping of Phase-Separated Polymer Films Using Nanothermal Analysis. <i>Macromolecules</i> , 2010, 43, 6724-6730.	5.1	33
385	Chemical State Evolution in Ferroelectric Films during Tip-Induced Polarization and Electroresistive Switching. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29588-29593.	8.3	33
386	Flexocoupling impact on size effects of piezoresponse and conductance in mixed-type ferroelectric semiconductors under applied pressure. <i>Physical Review B</i> , 2016, 94, .	3.3	33
387	Field enhancement of electronic conductance at ferroelectric domain walls. <i>Nature Communications</i> , 2017, 8, 1318.	13.2	33
388	Cell cycle-coupled expansion of AR activity promotes cancer progression. <i>Oncogene</i> , 2017, 36, 1655-1668.	5.9	33
389	Toward Electrochemical Studies on the Nanometer and Atomic Scales: Progress, Challenges, and Opportunities. <i>ACS Nano</i> , 2019, 13, 9735-9780.	15.3	33
390	Off-the-shelf deep learning is not enough, and requires parsimony, Bayesianity, and causality. <i>Npj Computational Materials</i> , 2021, 7, .	9.1	33
391	Evidence for possible flexoelectricity in tobacco mosaic viruses used as nanotemplates. <i>Applied Physics Letters</i> , 2006, 88, 153902.	3.2	32
392	Quantitative determination of tip parameters in piezoresponse force microscopy. <i>Applied Physics Letters</i> , 2007, 90, 212905.	3.2	32
393	Local polarization switching in the presence of surface-charged defects: Microscopic mechanisms and piezoresponse force spectroscopy observations. <i>Physical Review B</i> , 2008, 78, .	3.3	32
394	Open-loop band excitation Kelvin probe force microscopy. <i>Nanotechnology</i> , 2012, 23, 125704.	2.7	32
395	Sources of work-related acute fatigue in United States hospital nurses. <i>Australian Journal of Cancer Nursing</i> , 2014, 16, 19-25.	1.6	32
396	Domain pinning near a single-grain boundary in tetragonal and rhombohedral lead zirconate titanate films. <i>Physical Review B</i> , 2015, 91, .	3.3	32

#	ARTICLE	IF	CITATIONS
397	Negative Isotope Effect on Field-Effect Hole Transport in Fully Substituted ^{13}C -Rubrene. <i>Advanced Electronic Materials</i> , 2017, 3, 1700018.	5.4	32
398	Knowledge Extraction from Atomically Resolved Images. <i>ACS Nano</i> , 2017, 11, 10313-10320.	15.3	32
399	Immunologic properties and therapeutic efficacy of a multivalent epitope-based vaccine against four <i>Helicobacter pylori</i> adhesins (urease, Lpp20, HpaA, and CagL) in Mongolian gerbils. <i>Helicobacter</i> , 2017, 22, e12428.	3.3	32
400	Feature extraction via similarity search: application to atom finding and denoising in electron and scanning probe microscopy imaging. <i>Advanced Structural and Chemical Imaging</i> , 2018, 4, 3.	4.0	32
401	Axitinib exposure triggers endothelial cells senescence through ROS accumulation and ATM activation. <i>Oncogene</i> , 2019, 38, 5413-5424.	5.9	32
402	Exploration of Electrochemical Reactions at Organic-Inorganic Halide Perovskite Interfaces via Machine Learning in In Situ Time-of-Flight Secondary Ion Mass Spectrometry. <i>Advanced Functional Materials</i> , 2020, 30, 2001995.	16.5	32
403	Hierarchical Materials from High Information Content Macromolecular Building Blocks: Construction, Dynamic Interventions, and Prediction. <i>Chemical Reviews</i> , 2022, 122, 17397-17478.	51.4	32
404	High-throughput growth temperature optimization of ferroelectric $\text{Sr}_x\text{Ba}_{1-x}\text{Nb}_2\text{O}_6$ epitaxial thin films using a temperature gradient method. <i>Applied Physics Letters</i> , 2004, 84, 1350-1352.	3.2	31
405	Functional dissociation between serotonergic pathways in dorsal and ventral hippocampus in psychotomimetic drug-induced locomotor hyperactivity and prepulse inhibition in rats. <i>European Journal of Neuroscience</i> , 2004, 20, 3424-3432.	3.5	31
406	Ferroelastic domain wall dynamics in ferroelectric bilayers. <i>Acta Materialia</i> , 2010, 58, 5316-5325.	8.0	31
407	Data mining for better material synthesis: The case of pulsed laser deposition of complex oxides. <i>Journal of Applied Physics</i> , 2018, 123, .	2.3	31
408	Correlated Materials Characterization via Multimodal Chemical and Functional Imaging. <i>ACS Nano</i> , 2018, 12, 11798-11818.	15.3	31
409	Mapping mesoscopic phase evolution during E-beam induced transformations via deep learning of atomically resolved images. <i>Npj Computational Materials</i> , 2018, 4, .	9.1	31
410	Hysteretic Ion Migration and Remanent Field in Metal Halide Perovskites. <i>Advanced Science</i> , 2020, 7, 2001176.	12.4	31
411	Layer-by-layer and pseudo-two-dimensional growth modes for heteroepitaxial BaTiO_3 films by exploiting kinetic limitations. <i>Applied Physics Letters</i> , 2007, 91, 202901.	3.2	30
412	Spatially Resolved Spectroscopic Mapping of Polarization Reversal in Polycrystalline Ferroelectric Films: Crossing the Resolution Barrier. <i>Physical Review Letters</i> , 2009, 103, 057601.	8.0	30
413	Collective dynamics in nanostructured polycrystalline ferroelectric thin films using local time-resolved measurements and switching spectroscopy. <i>Acta Materialia</i> , 2010, 58, 67-75.	8.0	30
414	The partially reversible formation of Li-metal particles on a solid Li electrolyte: applications toward nanobatteries. <i>Nanotechnology</i> , 2012, 23, 325402.	2.7	30

#	ARTICLE	IF	CITATIONS
415	Frequency dependent dynamical electromechanical response of mixed ionic-electronic conductors. Journal of Applied Physics, 2012, 111, 014107.	2.3	30
416	Analysis of 16 phthalic acid esters in food simulants from plastic food contact materials by LC-ESI-MS/MS. Journal of Separation Science, 2013, 36, 477-484.	2.9	30
417	Chemically induced Jahn-Teller ordering on manganite surfaces. Nature Communications, 2014, 5, 4528.	13.2	30
418	Finite size effects in ferroelectric-semiconductor thin films under open-circuit electric boundary conditions. Journal of Applied Physics, 2015, 117, .	2.3	30
419	Direct-write liquid phase transformations with a scanning transmission electron microscope. Nanoscale, 2016, 8, 15581-15588.	5.8	30
420	Clockwork Goldstone bosons. Physical Review D, 2017, 96, .	4.8	30
421	Exploring the Magnetoelectric Coupling at the Composite Interfaces of FE/FM/FE Heterostructures. Scientific Reports, 2018, 8, 17381.	3.4	30
422	Carbon nanotubes as a tip calibration standard for electrostatic scanning probe microscopies. Applied Physics Letters, 2002, 81, 754-756.	3.2	29
423	Nanoscale domain patterning of lead zirconate titanate materials using electron beams. Applied Physics Letters, 2004, 84, 774-776.	3.2	29
424	Relationship between direct and converse piezoelectric effect in a nanoscale electromechanical contact. Physical Review B, 2007, 76, .	3.3	29
425	Polar distortion in ultrathin BaTiO_3 studied by <i>in situ</i> LEED. Physical Review B, 2008, 77, .	3.3	29
426	Domain dynamics in piezoresponse force spectroscopy: Quantitative deconvolution and hysteresis loop fine structure. Applied Physics Letters, 2008, 92, .	3.2	29
427	Dynamic piezoresponse force microscopy: Spatially resolved probing of polarization dynamics in time and voltage domains. Journal of Applied Physics, 2012, 112, .	2.3	29
428	Nanometer-scale mapping of irreversible electrochemical nucleation processes on solid Li-ion electrolytes. Scientific Reports, 2013, 3, 1621.	3.4	29
429	Unraveling the origins of electromechanical response in mixed-phase bismuth ferrite. Physical Review B, 2013, 88, .	3.3	29
430	Flexocoupling impact on the generalized susceptibility and soft phonon modes in the ordered phase of ferroics. Physical Review B, 2015, 92, .	3.3	29
431	Quantitative 3D-KPFM imaging with simultaneous electrostatic force and force gradient detection. Nanotechnology, 2015, 26, 175707.	2.7	29
432	Spatially Resolved Large Magnetization in Ultrathin BiFeO_3 . Advanced Materials, 2017, 29, 1700790.	24.3	29

#	ARTICLE	IF	CITATIONS
433	The synergistic effects of Xu Duan combined Sr-contained calcium silicate/poly- β -caprolactone scaffolds for the promotion of osteogenesis marker expression and the induction of bone regeneration in osteoporosis. <i>Materials Science and Engineering C</i> , 2021, 119, 111629.	7.8	29
434	Distilling nanoscale heterogeneity of amorphous silicon using tip-enhanced Raman spectroscopy (TERS) via multiresolution manifold learning. <i>Nature Communications</i> , 2021, 12, 578.	13.2	29
435	Automated Experiment in 4D-STEM: Exploring Emergent Physics and Structural Behaviors. <i>ACS Nano</i> , 2022, 16, 7605-7614.	15.3	29
436	Differential protein expression in the metal-reducing bacterium <i>Geobacter sulfurreducens</i> strain PCA grown with fumarate or ferric citrate. <i>Proteomics</i> , 2006, 6, 632-640.	3.0	28
437	Evaluation of recombinant HP6-Tsag, an 18 kDa <i>Taenia saginata</i> oncospheral adhesion protein, for the diagnosis of cysticercosis. <i>Parasitology Research</i> , 2007, 101, 517-525.	1.6	28
438	Intermittent contact mode piezoresponse force microscopy in a liquid environment. <i>Nanotechnology</i> , 2009, 20, 195701.	2.7	28
439	Defect thermodynamics and kinetics in thin strained ferroelectric films: The interplay of possible mechanisms. <i>Physical Review B</i> , 2014, 89, .	3.3	28
440	Full information acquisition in piezoresponse force microscopy. <i>Applied Physics Letters</i> , 2015, 107, .	3.2	28
441	Surface Control of Epitaxial Manganite Films via Oxygen Pressure. <i>ACS Nano</i> , 2015, 9, 4316-4327.	15.3	28
442	Quantitative Analysis of the Local Phase Transitions Induced by Laser Heating. <i>ACS Nano</i> , 2015, 9, 12442-12450.	15.3	28
443	Chemo-mechanical modification of cottonwood for Pb ²⁺ removal from aqueous solutions: Sorption mechanisms and potential application as biofilter in drip-irrigation. <i>Chemosphere</i> , 2016, 161, 1-9.	8.4	28
444	Acoustic Detection of Phase Transitions at the Nanoscale. <i>Advanced Functional Materials</i> , 2016, 26, 478-486.	16.5	28
445	Single-atom fabrication with electron and ion beams: From surfaces and two-dimensional materials toward three-dimensional atom-by-atom assembly. <i>MRS Bulletin</i> , 2017, 42, 637-643.	4.2	28
446	The Latitudes, Attitudes, and Platitudes of Watershed Phosphorus Management in North America. <i>Journal of Environmental Quality</i> , 2019, 48, 1176-1190.	2.9	28
447	Physics Discovery in Nanoplasmonic Systems via Autonomous Experiments in Scanning Transmission Electron Microscopy. <i>Advanced Science</i> , 2022, 9, .	12.4	28
448	Mapping bias-induced phase stability and random fields in relaxor ferroelectrics. <i>Applied Physics Letters</i> , 2009, 95, .	3.2	27
449	Detection of <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> (MAP)-specific IS900 DNA and antibodies against MAP peptides and lysate in the blood of Crohn's disease patients. <i>Inflammatory Bowel Diseases</i> , 2011, 17, 1254-1255.	1.9	27
450	Humidity Effect on Nanoscale Electrochemistry in Solid Silver Ion Conductors and the Dual Nature of Its Locality. <i>Nano Letters</i> , 2015, 15, 1062-1069.	9.5	27

#	ARTICLE	IF	CITATIONS
451	Defective Interfaces in Yttrium-Doped Barium Zirconate Films and Consequences on Proton Conduction. <i>Nano Letters</i> , 2015, 15, 2343-2349.	9.5	27
452	Solid-state electrochemistry on the nanometer and atomic scales: the scanning probe microscopy approach. <i>Nanoscale</i> , 2016, 8, 13838-13858.	5.8	27
453	Emergent Low-Symmetry Phases and Large Property Enhancements in Ferroelectric KNbO_3 Bulk Crystals. <i>Advanced Materials</i> , 2017, 29, 1700530.	24.3	27
454	Non-Toxic Gold Nanoclusters for Solution-Processed White Light-Emitting Diodes. <i>Scientific Reports</i> , 2018, 8, 8860.	3.4	27
455	Dynamic behavior of $\text{CH}_3\text{NH}_3\text{PbI}_3$ perovskite twin domains. <i>Applied Physics Letters</i> , 2018, 113, .	3.2	27
456	Literature Review of the In-Plane Behavior of Masonry Walls: Theoretical vs. Experimental Results. <i>Materials</i> , 2021, 14, 3063.	3.0	27
457	Exploring Transport Behavior in Hybrid Perovskites Solar Cells via Machine Learning Analysis of Environmental-Dependent Impedance Spectroscopy. <i>Advanced Science</i> , 2021, 8, e2002510.	12.4	27
458	High frequency piezoresponse force microscopy in the 1-10MHz regime. <i>Applied Physics Letters</i> , 2007, 91, .	3.2	26
459	Energy dissipation measurements in frequency-modulated scanning probe microscopy. <i>Nanotechnology</i> , 2010, 21, 455705.	2.7	26
460	Origin of piezoelectric response under a biased scanning probe microscopy tip across a 180° ferroelectric domain wall. <i>Physical Review B</i> , 2012, 86, .	3.3	26
461	Multifrequency Imaging in the Intermittent Contact Mode of Atomic Force Microscopy: Beyond Phase Imaging. <i>Small</i> , 2012, 8, 1264-1269.	11.2	26
462	Fundamental limitation to the magnitude of piezoelectric response of $\text{a}^{\sim}001\text{a}^{\sim}\text{c}$ textured $\text{K}_0.5\text{Na}_0.5\text{NbO}_3$ ceramic. <i>Applied Physics Letters</i> , 2014, 104, .	3.2	26
463	Gardening in the zone of death: an experimental assessment of the absolute elevation limit of vascular plants. <i>Scientific Reports</i> , 2016, 6, 24440.	3.4	26
464	Precision controlled atomic resolution scanning transmission electron microscopy using spiral scan pathways. <i>Scientific Reports</i> , 2017, 7, 43585.	3.4	26
465	Effect of surface ionic screening on the polarization reversal scenario in ferroelectric thin films: Crossover from ferroionic to antiferroionic states. <i>Physical Review B</i> , 2017, 96, .	3.3	26
466	Learning from Imperfections: Predicting Structure and Thermodynamics from Atomic Imaging of Fluctuations. <i>ACS Nano</i> , 2019, 13, 718-727.	15.3	26
467	Autonomous Experiments in Scanning Probe Microscopy and Spectroscopy: Choosing Where to Explore Polarization Dynamics in Ferroelectrics. <i>ACS Nano</i> , 2021, 15, 11253-11262.	15.3	26
468	Probing Electron Beam Induced Transformations on a Single-Defect Level via Automated Scanning Transmission Electron Microscopy. <i>ACS Nano</i> , 2022, 16, 17116-17127.	15.3	26

#	ARTICLE	IF	CITATIONS
469	Fabrication, dynamics, and electrical properties of insulated scanning probe microscopy probes for electrical and electromechanical imaging in liquids. <i>Applied Physics Letters</i> , 2007, 91, .	3.2	25
470	Local probing of relaxation time distributions in ferroelectric polymer nanomesas: Time-resolved piezoresponse force spectroscopy and spectroscopic imaging. <i>Applied Physics Letters</i> , 2008, 92, 232903.	3.2	25
471	Local measurements of Preisach density in polycrystalline ferroelectric capacitors using piezoresponse force spectroscopy. <i>Applied Physics Letters</i> , 2010, 96, .	3.2	25
472	Three-dimensional vector electrochemical strain microscopy. <i>Journal of Applied Physics</i> , 2012, 112, .	2.3	25
473	Spatially Resolved Mapping of Oxygen Reduction/Evolution Reaction on Solid-Oxide Fuel Cell Cathodes with Sub-10 nm Resolution. <i>ACS Nano</i> , 2013, 7, 3808-3814.	15.3	25
474	Direct Probe of Interplay between Local Structure and Superconductivity in $\text{FeTe}_{0.55}\text{Se}_{0.45}$. <i>ACS Nano</i> , 2013, 7, 2634-2641.	15.3	25
475	Electroelastic fields in artificially created vortex cores in epitaxial BiFeO_3 thin films. <i>Applied Physics Letters</i> , 2015, 107, .	3.2	25
476	Spatially Resolved Probing of Electrochemical Reactions via Energy Discovery Platforms. <i>Nano Letters</i> , 2015, 15, 3669-3676.	9.5	25
477	Ferroelectric switching by the grounded scanning probe microscopy tip. <i>Physical Review B</i> , 2015, 91, .	3.3	25
478	G-mode magnetic force microscopy: Separating magnetic and electrostatic interactions using big data analytics. <i>Applied Physics Letters</i> , 2016, 108, .	3.2	25
479	Lost surface waves in nonpiezoelectric solids. <i>Physical Review B</i> , 2017, 96, .	3.3	25
480	Direct Probing of Polarization Charge at Nanoscale Level. <i>Advanced Materials</i> , 2018, 30, 1703675.	24.3	25
481	Lab on a beam—Big data and artificial intelligence in scanning transmission electron microscopy. <i>MRS Bulletin</i> , 2019, 44, 565-575.	4.2	25
482	Atomic Mechanisms for the Si Atom Dynamics in Graphene: Chemical Transformations at the Edge and in the Bulk. <i>Advanced Functional Materials</i> , 2019, 29, 1904480.	16.5	25
483	Ferroic Halide Perovskite Optoelectronics. <i>Advanced Functional Materials</i> , 2021, 31, 2102793.	16.5	25
484	Scanning probe microscopy imaging of frequency dependent electrical transport through carbon nanotube networks in polymers. <i>Nanotechnology</i> , 2004, 15, 907-912.	2.7	24
485	Nonvolatile Memory Elements Based on the Intercalation of Organic Molecules Inside Carbon Nanotubes. <i>Physical Review Letters</i> , 2007, 98, 056401.	8.0	24
486	Scaling and disorder analysis of local I - V curves from ferroelectric thin films of lead zirconate titanate. <i>Nanotechnology</i> , 2011, 22, 254031.	2.7	24

#	ARTICLE	IF	CITATIONS
487	Landau-Ginzburg-Devonshire theory for electromechanical hysteresis loop formation in piezoresponse force microscopy of thin films. <i>Journal of Applied Physics</i> , 2011, 110, .	2.3	24
488	Mapping piezoelectric nonlinearity in the Rayleigh regime using band excitation piezoresponse force microscopy. <i>Applied Physics Letters</i> , 2011, 98, .	3.2	24
489	Real-space mapping of dynamic phenomena during hysteresis loop measurements: Dynamic switching spectroscopy piezoresponse force microscopy. <i>Applied Physics Letters</i> , 2011, 98, 202903.	3.2	24
490	Scanning Near-Field Microwave Microscopy of VO ₂ and Chemical Vapor Deposition Graphene. <i>Advanced Functional Materials</i> , 2013, 23, 2635-2645.	16.5	24
491	Resenha do Livro: BARBOSA, Maria Carmen Silveira. Por amor e por força: rotinas na educação infantil. Porto Alegre: Artmed, 2006.. <i>Zero-a-seis</i> , 2013, 1, .	0.2	24
492	Nanoscale Lubrication of Ionic Surfaces Controlled via a Strong Electric Field. <i>Scientific Reports</i> , 2015, 5, 8049.	3.4	24
493	Phase-field modeling of chemical control of polarization stability and switching dynamics in ferroelectric thin films. <i>Physical Review B</i> , 2016, 94, .	3.3	24
494	Characterization of LiMn ₂ O ₄ cathodes by electrochemical strain microscopy. <i>Applied Physics Letters</i> , 2016, 108, .	3.2	24
495	Machine Detection of Enhanced Electromechanical Energy Conversion in PbZr _{0.2} Ti _{0.8} O ₃ Thin Films. <i>Advanced Materials</i> , 2018, 30, e1800701.	24.3	24
496	Non-conventional mechanism of ferroelectric fatigue via cation migration. <i>Nature Communications</i> , 2019, 10, 3064.	13.2	24
497	Light-Ferroic Interaction in Hybrid Organic-Inorganic Perovskites. <i>Advanced Optical Materials</i> , 2019, 7, 1901451.	7.9	24
498	Penetration of Bomb ¹⁴ C Into the Deepest Ocean Trench. <i>Geophysical Research Letters</i> , 2019, 46, 5413-5419.	4.0	24
499	Luminescent and thermal properties of novel orange-red emitting MgNb ₂ O ₆ :Sm ³⁺ phosphors for displays, photo catalytic and sensor applications. <i>SN Applied Sciences</i> , 2021, 3, 1.	2.9	24
500	Disentangling Rotational Dynamics and Ordering Transitions in a System of Self-Organizing Protein Nanorods <i>via</i> Rotationally Invariant Latent Representations. <i>ACS Nano</i> , 2021, 15, 6471-6480.	15.3	24
501	Probing Local and Global Ferroelectric Phase Stability and Polarization Switching in Ordered Macroporous PZT. <i>Advanced Functional Materials</i> , 2011, 21, 941-947.	16.5	23
502	Nanoscale mapping of oxygen vacancy kinetics in nanocrystalline Samarium doped ceria thin films. <i>Applied Physics Letters</i> , 2013, 103, .	3.2	23
503	Self-consistent modeling of electrochemical strain microscopy of solid electrolytes. <i>Nanotechnology</i> , 2014, 25, 445701.	2.7	23
504	Coupling of electrical and mechanical switching in nanoscale ferroelectrics. <i>Applied Physics Letters</i> , 2015, 107, .	3.2	23

#	ARTICLE	IF	CITATIONS
505	Constraining Data Mining with Physical Models: Voltage- and Oxygen Pressure-Dependent Transport in Multiferroic Nanostructures. <i>Nano Letters</i> , 2015, 15, 6650-6657.	9.5	23
506	Graphene engineering by neon ion beams. <i>Nanotechnology</i> , 2016, 27, 125302.	2.7	23
507	$p \sim n$ Junction Dynamics Induced in a Graphene Channel by Ferroelectric-Domain Motion in the Substrate. <i>Physical Review Applied</i> , 2017, 8, .	3.8	23
508	YCrWO ₆ : Polar and Magnetic Oxide with CaTa ₂ O ₆ -Related Structure. <i>Chemistry of Materials</i> , 2018, 30, 1045-1054.	7.1	23
509	Spatially Resolved Carrier Dynamics at MAPbBr ₃ Single Crystal Electrode Interface. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41551-41560.	8.3	23
510	Intrinsic structural instabilities of domain walls driven by gradient coupling: Meandering antiferrodistortive-ferroelectric domain walls in BiFeO_3 . <i>Physical Review B</i> , 2019, 99, .	8.3	23
511	Toward Decoding the Relationship between Domain Structure and Functionality in Ferroelectrics via Hidden Latent Variables. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 1693-1703.	8.3	23
512	The dream vaccine. <i>Science</i> , 2021, 372, 227-231.	20.9	23
513	Oxygen Vacancy Injection as a Pathway to Enhancing Electromechanical Response in Ferroelectrics. <i>Advanced Materials</i> , 2022, 34, e2106426.	24.3	23
514	Physics makes the difference: Bayesian optimization and active learning via augmented Gaussian process. <i>Machine Learning: Science and Technology</i> , 2022, 3, 015003.	5.2	23
515	Quantitative Analysis of Electronic Properties of Carbon Nanotubes by Scanning Probe Microscopy: From Atomic to Mesoscopic Length Scales. <i>Physical Review Letters</i> , 2004, 93, 246801.	8.0	22
516	The Impact of the Central Venous Catheter on the Diagnosis of Infectious Endocarditis Using Duke Criteria in Children With Staphylococcus aureus Bacteremia. <i>Pediatric Infectious Disease Journal</i> , 2008, 27, 636-639.	2.0	22
517	Structural Consequences of Ferroelectric Nanolithography. <i>Nano Letters</i> , 2011, 11, 3080-3084.	9.5	22
518	N-Arylalkyl-2-azaadamantanes as cage-expanded polycarbocyclic sigma (σ) receptor ligands. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 5289-5292.	2.3	22
519	Human ± 1 antitrypsin modifies B lymphocyte responses during allograft transplantation. <i>Immunology</i> , 2013, 140, 362-373.	4.4	22
520	Polarization Dynamics in Ferroelectric Capacitors: Local Perspective on Emergent Collective Behavior and Memory Effects. <i>Advanced Functional Materials</i> , 2013, 23, 2490-2508.	16.5	22
521	Color control of nanowire InGaN/GaN light emitting diodes by post-growth treatment. <i>Nanotechnology</i> , 2015, 26, 465203.	2.7	22
522	Rapid mapping of polarization switching through complete information acquisition. <i>Nature Communications</i> , 2016, 7, 13290.	13.2	22

#	ARTICLE	IF	CITATIONS
523	Automated Interpretation and Extraction of Topographic Information from Time of Flight Secondary Ion Mass Spectrometry Data. <i>Scientific Reports</i> , 2017, 7, 17099.	3.4	22
524	Reference Data for the Density, Viscosity, and Surface Tension of Liquid Al-Zn, Ag-Sn, Bi-Sn, Cu-Sn, and Sn-Zn Eutectic Alloys. <i>Journal of Physical and Chemical Reference Data</i> , 2018, 47, .	4.4	22
525	E-beam manipulation of Si atoms on graphene edges with an aberration-corrected scanning transmission electron microscope. <i>Nano Research</i> , 2018, 11, 6217-6226.	10.6	22
526	Building ferroelectric from the bottom up: The machine learning analysis of the atomic-scale ferroelectric distortions. <i>Applied Physics Letters</i> , 2019, 115, .	3.2	22
527	Reply to: On the ferroelectricity of CH ₃ NH ₃ PbI ₃ perovskites. <i>Nature Materials</i> , 2019, 18, 1051-1053.	26.6	22
528	Causal analysis of competing atomistic mechanisms in ferroelectric materials from high-resolution scanning transmission electron microscopy data. <i>Npj Computational Materials</i> , 2020, 6, .	9.1	22
529	Computational scanning tunneling microscope image database. <i>Scientific Data</i> , 2021, 8, 57.	5.4	22
530	Optoelectronic fuzzy inference system based on beam-scanning architecture. <i>Applied Optics</i> , 1994, 33, 1485.	2.1	21
531	Adsorption, desorption, and dissociation of benzene on TiO ₂ (110) and Pd-TiO ₂ (110): Experimental characterization and first-principles calculations. <i>Physical Review B</i> , 2006, 74, .	3.3	21
532	Effect of the intrinsic width on the piezoelectric force microscopy of a single ferroelectric domain wall. <i>Journal of Applied Physics</i> , 2008, 103, .	2.3	21
533	Electrochemical strain microscopy with blocking electrodes: The role of electromigration and diffusion. <i>Journal of Applied Physics</i> , 2012, 111, 014114.	2.3	21
534	Nanoscale Origins of Nonlinear Behavior in Ferroic Thin Films. <i>Advanced Functional Materials</i> , 2013, 23, 81-90.	16.5	21
535	Deep data mining in a real space: separation of intertwined electronic responses in a lightly doped BaFe ₂ As ₂ . <i>Nanotechnology</i> , 2016, 27, 475706.	2.7	21
536	Chemical Phenomena of Atomic Force Microscopy Scanning. <i>Analytical Chemistry</i> , 2018, 90, 3475-3481.	6.8	21
537	Understanding Electric Double-Layer Gating Based on Ionic Liquids: from Nanoscale to Macroscale. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 43211-43218.	8.3	21
538	Predictability of Localized Plasmonic Responses in Nanoparticle Assemblies. <i>Small</i> , 2021, 17, e2100181.	11.2	21
539	Disentangling Ferroelectric Wall Dynamics and Identification of Pinning Mechanisms via Deep Learning. <i>Advanced Materials</i> , 2021, 33, e2103680.	24.3	21
540	Ferroelectricity in hafnia controlled via surface electrochemical state. <i>Nature Materials</i> , 2023, 22, 1144-1151.	26.6	21

#	ARTICLE	IF	CITATIONS
541	1H NMR spectroscopic method for diagnosis of malabsorption syndrome: a pilot study. NMR in Biomedicine, 2004, 17, 69-75.	2.9	20
542	Detection of percolating paths in polyhedral segregated network composites using electrostatic force microscopy and conductive atomic force microscopy. Applied Physics Letters, 2009, 95, .	3.2	20
543	Nanofabrication of insulated scanning probes for electromechanical imaging in liquid solutions. Nanotechnology, 2010, 21, 365302.	2.7	20
544	Spatially resolved mapping of disorder type and distribution in random systems using artificial neural network recognition. Physical Review B, 2011, 84, .	3.3	20
545	Half-harmonic Kelvin probe force microscopy with transfer function correction. Applied Physics Letters, 2012, 100, 063118.	3.2	20
546	Roto-flexoelectric coupling impact on the phase diagrams and pyroelectricity of thin SrTiO ₃ films. Journal of Applied Physics, 2012, 112, .	2.3	20
547	Microscopy: Hasten high resolution. Nature, 2014, 515, 487-488.	36.2	20
548	Interrelation between Structure & Magnetic Properties in La _{0.5} Sr _{0.5} CoO ₃ . Advanced Materials Interfaces, 2014, 1, 1400203.	4.1	20
549	Flow Perfusion Co-culture of Human Mesenchymal Stem Cells and Endothelial Cells on Biodegradable Polymer Scaffolds. Annals of Biomedical Engineering, 2014, 42, 1381-1390.	2.6	20
550	Breaking the limits of structural and mechanical imaging of the heterogeneous structure of coal macerals. Nanotechnology, 2014, 25, 435402.	2.7	20
551	Electrochemical strain microscopy of local electrochemical processes in solids: mechanism of imaging and spectroscopy in the diffusion limit. Journal of Electroceramics, 2014, 32, 51-59.	1.9	20
552	167-PFlops Deep Learning for Electron Microscopy: From Learning Physics to Atomic Manipulation. , 2018, , .		20
553	Surface Chemistry Controls Anomalous Ferroelectric Behavior in Lithium Niobate. ACS Applied Materials & Interfaces, 2018, 10, 29153-29160.	8.3	20
554	Machine learning-based multidomain processing for texture-based image segmentation and analysis. Applied Physics Letters, 2020, 116, .	3.2	20
555	Imaging mechanism for hyperspectral scanning probe microscopy via Gaussian process modelling. Npj Computational Materials, 2020, 6, .	9.1	20
556	Quantifying the Dynamics of Protein Self-Organization Using Deep Learning Analysis of Atomic Force Microscopy Data. Nano Letters, 2021, 21, 158-165.	9.5	20
557	AIRMESS & Academy of International Regenerative Medicine & Surgery Societies: recommendations in the use of platelet-rich plasma (PRP), autologous stem cell-based therapy (ASC-BT) in androgenetic alopecia and wound healing. Expert Opinion on Biological Therapy, 2021, 21, 1443-1449.	3.2	20
558	Resonance frequency analysis for surface-coupled atomic force microscopy cantilever in ambient and liquid environments. Applied Physics Letters, 2008, 92, 083102.	3.2	19

#	ARTICLE	IF	CITATIONS
559	Adaptive probe trajectory scanning probe microscopy for multiresolution measurements of interface geometry. <i>Nanotechnology</i> , 2009, 20, 255701.	2.7	19
560	Toward Quantitative Electrochemical Measurements on the Nanoscale by Scanning Probe Microscopy: Environmental and Current Spreading Effects. <i>ACS Nano</i> , 2013, 7, 8175-8182.	15.3	19
561	Oxygen Control of Atomic Structure and Physical Properties of SrRuO ₃ Surfaces. <i>ACS Nano</i> , 2013, 7, 4403-4413.	15.3	19
562	Nanoscale Probing of Voltage Activated Oxygen Reduction/Evolution Reactions in Nanopatterned (La _x Sr _{1-x})CoO ₃ Cathodes. <i>Advanced Energy Materials</i> , 2013, 3, 788-797.	22.2	19
563	Variable temperature electrochemical strain microscopy of Sm-doped ceria. <i>Nanotechnology</i> , 2013, 24, 145401.	2.7	19
564	Polarization Control via He-Ion Beam Induced Nanofabrication in Layered Ferroelectric Semiconductors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 7349-7355.	8.3	19
565	Direct top-quark decay width measurement in the $\mathbf{\bar{t} \rightarrow t \hat{\nu} \text{lepton} + \text{jets}}$ channel at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS experiment. <i>European Physical Journal C</i> , 2018, 78, 129.	4.0	19
566	Giant resistive switching in mixed phase BiFeO ₃ via phase population control. <i>Nanoscale</i> , 2018, 10, 17629-17637.	5.8	19
567	Graphene milling dynamics during helium ion beam irradiation. <i>Carbon</i> , 2018, 138, 277-282.	10.7	19
568	Strain-Induced Chemical Gradient and Polarization in Metal Halide Perovskites. <i>Advanced Electronic Materials</i> , 2020, 6, 1901235.	5.4	19
569	Probing atomic-scale symmetry breaking by rotationally invariant machine learning of multidimensional electron scattering. <i>Npj Computational Materials</i> , 2021, 7, .	9.1	19
570	Disentangling ferroelectric domain wall geometries and pathways in dynamic piezoresponse force microscopy via unsupervised machine learning. <i>Nanotechnology</i> , 2022, 33, 055707.	2.7	19
571	N-Dithiocarboxy- β -amino- α -Keto-Komplexe von Nickel, Palladium und Platin(II). <i>Chemische Berichte</i> , 1978, 111, 1246-1252.	1.8	18
572	Multihormonal regulation of dehydroepiandrosterone sulfotransferase messenger ribonucleic acid levels in adult rat liver. <i>Endocrinology</i> , 1994, 134, 1693-1699.	2.8	18
573	Effect of microstructure on the stability of nanocrystalline tin dioxide ceramics. <i>Journal of Materials Chemistry</i> , 1997, 7, 2269-2272.	6.7	18
574	Recent Advances in Electromechanical Imaging on the Nanometer Scale: Polarization Dynamics in Ferroelectrics, Biopolymers, and Liquid Imaging. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 5674-5685.	1.6	18
575	Primary vocal cord aspergillosis caused by <i>Aspergillus fumigatus</i> and molecular identification of the isolate. <i>Medical Mycology</i> , 2008, 46, 475-479.	0.8	18
576	Piezoelectric response of nanoscale PbTiO ₃ in composite PbTiO ₃ /CoFe ₂ O ₄ epitaxial films. <i>Applied Physics Letters</i> , 2008, 93, 074101.	3.2	18

#	ARTICLE	IF	CITATIONS
577	High-Frequency Electromechanical Imaging of Ferroelectrics in a Liquid Environment. ACS Nano, 2012, 6, 5559-5565.	15.3	18
578	Local crystallography analysis for atomically resolved scanning tunneling microscopy images. Nanotechnology, 2013, 24, 415707.	2.7	18
579	Higher order harmonic detection for exploring nonlinear interactions with nanoscale resolution. Scientific Reports, 2013, 3, 2677.	3.4	18
580	Band excitation Kelvin probe force microscopy utilizing photothermal excitation. Applied Physics Letters, 2015, 106, .	3.2	18
581	Ion transport and softening in a polymerized ionic liquid. Nanoscale, 2015, 7, 947-955.	5.8	18
582	Data mining graphene: correlative analysis of structure and electronic degrees of freedom in graphenic monolayers with defects. Nanotechnology, 2016, 27, 495703.	2.7	18
583	Atom-by-atom fabrication by electron beam via induced phase transformations. MRS Bulletin, 2017, 42, 653-659.	4.2	18
584	Recombinant growth differentiation factor 11 influences short-term memory and enhances Sox2 expression in middle-aged mice. Behavioural Brain Research, 2018, 341, 45-49.	2.3	18
585	Nanoscale Electrochemical Phenomena of Polarization Switching in Ferroelectrics. ACS Applied Materials & Interfaces, 2018, 10, 38217-38222.	8.3	18
586	Exploring physics of ferroelectric domain walls via Bayesian analysis of atomically resolved STEM data. Nature Communications, 2020, 11, 6361.	13.2	18
587	Nonlinear transport imaging by scanning impedance microscopy. Applied Physics Letters, 2004, 85, 4240-4242.	3.2	17
588	Cold-Field Switching in PVDF-TrFE Ferroelectric Polymer Nanomesas. Physical Review Letters, 2012, 108, 027603.	8.0	17
589	Effective piezoelectric response of twin walls in ferroelectrics. Journal of Applied Physics, 2013, 113, .	2.3	17
590	Tuning Susceptibility via Misfit Strain in Relaxed Morphotropic Phase Boundary PbZr _{1-x} Ti _x O ₃ Epitaxial Thin Films. Advanced Materials Interfaces, 2014, 1, 1400098.	4.1	17
591	<i>In situ</i> examination of oxygen non-stoichiometry in La _{0.80} Sr _{0.20} CoO ₃ thin films at intermediate and low temperatures by x-ray diffraction. Applied Physics Letters, 2014, 104, .	3.2	17
592	Ferroelectric domain triggers the charge modulation in semiconductors (invited). Journal of Applied Physics, 2014, 116, 066817.	2.3	17
593	Multidimensional dynamic piezoresponse measurements: Unraveling local relaxation behavior in relaxor-ferroelectrics via big data. Journal of Applied Physics, 2015, 118, .	2.3	17
594	Thickness, humidity, and polarization dependent ferroelectric switching and conductivity in Mg doped lithium niobate. Journal of Applied Physics, 2015, 118, .	2.3	17

#	ARTICLE	IF	CITATIONS
595	Atomic-scale electrochemistry on the surface of a manganite by scanning tunneling microscopy. Applied Physics Letters, 2015, 106, .	3.2	17
596	Finite-size effects of hysteretic dynamics in multilayer graphene on a ferroelectric. Physical Review B, 2015, 91, .	3.3	17
597	Local Probing of Ferroelectric and Ferroelastic Switching through Stress-Mediated Piezoelectric Spectroscopy. Advanced Materials Interfaces, 2016, 3, 1500470.	4.1	17
598	Decoupling indirect topographic cross-talk in band excitation piezoresponse force microscopy imaging and spectroscopy. Applied Physics Letters, 2016, 108, .	3.2	17
599	BEAM: A Computational Workflow System for Managing and Modeling Material Characterization Data in HPC Environments. Procedia Computer Science, 2016, 80, 2276-2280.	2.1	17
600	Pattern of omega-3 polyunsaturated fatty acid intake and fish consumption and retinal vascular caliber in children and adolescents: A cohort study. PLoS ONE, 2017, 12, e0172109.	2.5	17
601	Reconstructing phase diagrams from local measurements via Gaussian processes: mapping the temperature-composition space to confidence. Npj Computational Materials, 2018, 4, .	9.1	17
602	Control of polarization reversal temperature behavior by surface screening in thin ferroelectric films. Acta Materialia, 2018, 160, 57-71.	8.0	17
603	A self-driving microscope and the Atomic Forge. MRS Bulletin, 2019, 44, 669-670.	4.2	17
604	Self-Assembled Room Temperature Multiferroic BiFeO ₃ -LiFe ₅ O ₈ Nanocomposites. Advanced Functional Materials, 2020, 30, 1906849.	16.5	17
605	Room temperature multiferroicity and magnetodielectric coupling in O ²⁻ composite thin films. Journal of Applied Physics, 2020, 127, .	2.3	17
606	Mapping Disorder in Polycrystalline Relaxors: A Piezoresponse Force Microscopy Approach. Materials, 2010, 3, 4860-4870.	3.0	16
607	Towards the limit of ferroelectric nanostructures: switchable sub-10 nm nanoisland arrays. Journal of Materials Chemistry C, 2013, 1, 5299.	5.6	16
608	Piezoresponse of ferroelectric films in ferroionic states: Time and voltage dynamics. Applied Physics Letters, 2017, 110, .	3.2	16
609	Nontrivial temperature behavior of the carrier concentration in graphene on ferroelectric substrate with domain walls. Acta Materialia, 2018, 155, 302-317.	8.0	16
610	Activity of Ceftazidime-Avibactam Against Clinical Isolates of <i>Klebsiella pneumoniae</i> , Including KPC-Carrying Isolates, Endemic to New York City. Microbial Drug Resistance, 2018, 24, 35-39.	2.0	16
611	Induced ferroelectric phases in SrTiO ₃ by a nanocomposite approach. Nanoscale, 2020, 12, 18193-18199.	5.8	16
612	Role of the quasi-biennial oscillation in the downward extension of stratospheric northern annular mode anomalies. Climate Dynamics, 2020, 55, 595-612.	3.8	16

#	ARTICLE	IF	CITATIONS
613	Exploring the physics of cesium lead halide perovskite quantum dots via Bayesian inference of the photoluminescence spectra in automated experiment. <i>Nanophotonics</i> , 2021, 10, 1977-1989.	6.3	16
614	Multi-objective Bayesian optimization of ferroelectric materials with interfacial control for memory and energy storage applications. <i>Journal of Applied Physics</i> , 2021, 130, .	2.3	16
615	Transverse oscillations and an energy source in a strongly magnetized sunspot. <i>Nature Astronomy</i> , 2023, 7, 856-866.	7.8	16
616	AFM Investigation of Mechanical Properties of Dentin. <i>Israel Journal of Chemistry</i> , 2008, 48, 65-72.	2.6	15
617	Point force and generalized point source on the surface of semi-infinite transversely isotropic material. <i>Journal of Applied Physics</i> , 2011, 110, .	2.3	15
618	Probing Local Electromechanical Effects in Highly Conductive Electrolytes. <i>ACS Nano</i> , 2012, 6, 10139-10146.	15.3	15
619	Self-consistent modelling of electrochemical strain microscopy in mixed ionic-electronic conductors: Nonlinear and dynamic regimes. <i>Journal of Applied Physics</i> , 2015, 118, .	2.3	15
620	Searches for transverse momentum dependent flow vector fluctuations in Pb-Pb and p-Pb collisions at the LHC. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.8	15
621	Feel the dielectric force. <i>Science</i> , 2018, 360, 1302-1302.	20.9	15
622	Dynamic Manipulation in Piezoresponse Force Microscopy: Creating Nonequilibrium Phases with Large Electromechanical Response. <i>ACS Nano</i> , 2020, 14, 10569-10577.	15.3	15
623	Flexoinduced ferroelectricity in low-dimensional transition metal dichalcogenides. <i>Physical Review B</i> , 2020, 102, .	3.3	15
624	Variable voltage electron microscopy: Toward atom-by-atom fabrication in 2D materials. <i>Ultramicroscopy</i> , 2020, 211, 112949.	1.9	15
625	Separating Physically Distinct Mechanisms in Complex Infrared Plasmonic Nanostructures via Machine Learning Enhanced Electron Energy Loss Spectroscopy. <i>Advanced Optical Materials</i> , 2021, 9, 2001808.	7.9	15
626	Revealing the Chemical Bonding in Adatom Arrays via Machine Learning of Hyperspectral Scanning Tunneling Spectroscopy Data. <i>ACS Nano</i> , 2021, 15, 11806-11816.	15.3	15
627	Stress-induced phase transitions in nanoscale CuInP_2S_6 . <i>Physical Review B</i> , 2021, 104, .	3.3	15
628	Deep Bayesian local crystallography. <i>Npj Computational Materials</i> , 2021, 7, .	9.1	15
629	Functional Mechanisms of Health Behavior Change Techniques: A Conceptual Review. <i>Frontiers in Psychology</i> , 2022, 13, 725644.	2.3	15
630	Exploring Causal Physical Mechanisms via Non-Gaussian Linear Models and Deep Kernel Learning: Applications for Ferroelectric Domain Structures. <i>ACS Nano</i> , 2022, 16, 1250-1259.	15.3	15

#	ARTICLE	IF	CITATIONS
631	Magnetic-field measurements of current-carrying devices by force-sensitive magnetic-force microscopy with potential correction. Applied Physics Letters, 2001, 78, 1005-1007.	3.2	14
632	Surface stability of epitaxial SrRuO3 thin films in vacuum. Journal of Materials Research, 2004, 19, 3447-3450.	2.6	14
633	Local Polarization Switching in Piezoresponse Force Microscopy. Ferroelectrics, 2007, 354, 198-207.	0.6	14
634	Preparation of epitaxial DyFeO3 thin films and magnetodielectric coupling. Thin Solid Films, 2010, 519, 240-243.	1.9	14
635	The pharmacology of Malo maxima jellyfish venom extract in isolated cardiovascular tissues: A probable cause of the Irukandji syndrome in Western Australia. Toxicology Letters, 2011, 201, 221-229.	1.3	14
636	Research Update: Spatially resolved mapping of electronic structure on atomic level by multivariate statistical analysis. APL Materials, 2014, 2, .	4.8	14
637	Imaging via complete cantilever dynamic detection: general dynamic mode imaging and spectroscopy in scanning probe microscopy. Nanotechnology, 2016, 27, 414003.	2.7	14
638	Self-consistent theory of nanodomain formation on nonpolar surfaces of ferroelectrics. Physical Review B, 2016, 93, .	3.3	14
639	Role of flexoelectric coupling in polarization rotations at the a-c domain walls in ferroelectric perovskites. Applied Physics Letters, 2017, 110, .	3.2	14
640	Consistent Integration of Experimental and Ab Initio Data into Effective Physical Models. Journal of Chemical Theory and Computation, 2017, 13, 5179-5194.	5.6	14
641	Ultrafast current imaging by Bayesian inversion. Nature Communications, 2018, 9, 513.	13.2	14
642	Environmental Gating and Galvanic Effects in Single Crystals of Organic-Inorganic Halide Perovskites. ACS Applied Materials & Interfaces, 2019, 11, 14722-14733.	8.3	14
643	B7-H4 is a potential prognostic biomarker of prostate cancer. Experimental and Molecular Pathology, 2020, 114, 104406.	2.3	14
644	Role of Decomposition Product Ions in Hysteretic Behavior of Metal Halide Perovskite. ACS Nano, 2021, 15, 9017-9026.	15.3	14
645	Defect detection in atomic-resolution images via unsupervised learning with translational invariance. Npj Computational Materials, 2021, 7, .	9.1	14
646	Temperature-dependent phase transitions in zeptoliter volumes of a complex biological membrane. Nanotechnology, 2011, 22, 055709.	2.7	13
647	Improved half-life determination and λ -delayed-ray spectroscopy for ${}^{137}\text{Cs}$ λ -decay. Physical Review C, 2013, 87, 054308.	2.9	13
648	Indentation of a punch with chemical or heat distribution at its base into transversely isotropic half-space: Application to local thermal and electrochemical probes. Journal of Applied Physics, 2013, 113, 187201.	2.3	13

#	ARTICLE	IF	CITATIONS
649	Controlled Nanopatterning of a Polymerized Ionic Liquid in a Strong Electric Field. <i>Advanced Functional Materials</i> , 2015, 25, 805-811.	16.5	13
650	A-site stoichiometry and piezoelectric response in thin film $\text{PbZr}_{1-x}\text{Ti}_x\text{O}_3$. <i>Journal of Applied Physics</i> , 2015, 117, 204104.	2.3	13
651	Growth Mode Transition in Complex Oxide Heteroepitaxy: Atomically Resolved Studies. <i>Crystal Growth and Design</i> , 2016, 16, 2708-2716.	3.2	13
652	Studies on dielectric, optical, magnetic, magnetic domain structure, and resistance switching characteristics of highly c-axis oriented NZFO thin films. <i>Journal of Applied Physics</i> , 2017, 122, .	2.3	13
653	Improving superconductivity in BaFe_2As_2 -based crystals by cobalt clustering and electronic uniformity. <i>Scientific Reports</i> , 2017, 7, 949.	3.4	13
654	High-veracity functional imaging in scanning probe microscopy via Graph-Bootstrapping. <i>Nature Communications</i> , 2018, 9, 2428.	13.2	13
655	Naringenin improve hepatitis C virus infection induced insulin resistance by increase PTEN expression via p53-dependent manner. <i>Biomedicine and Pharmacotherapy</i> , 2018, 103, 746-754.	5.8	13
656	Efficient Overcoming of Blood-Brain Barrier by Functionalized Selenium Nanoparticles to Treat Glioma. <i>Advanced Therapeutics</i> , 2018, 1, 1800074.	3.4	13
657	Actuating, shape reconstruction, and reinforcement of galactomannan-based hydrogels by coordination bonds induced metal ions capture. <i>International Journal of Biological Macromolecules</i> , 2019, 121, 1770.	7.7	13
658	Giant, thermally-enhanced electrostriction and polar surface phase in $\text{La}_2\text{Mg}_2\text{O}_7$. <i>Journal of Applied Physics</i> , 2019, 125, 114101.	2.5	13
659	MULTI-CAMERA SYSTEM CALIBRATION OF A LOW-COST REMOTELY OPERATED VEHICLE FOR UNDERWATER CAVE EXPLORATION. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLII-1, 329-337.	0.3	13
660	Exploring the Relationship of Microstructure and Conductivity in Metal Halide Perovskites via Active Learning-Driven Automated Scanning Probe Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2023, 14, 3352-3359.	4.9	13
661	Observation of ferroelectricity in a confined crystallite using electron-backscattered diffraction and piezoresponse force microscopy. <i>Applied Physics Letters</i> , 2005, 87, 172903.	3.2	12
662	Financing student education in the future. <i>British Dental Journal</i> , 2005, 199, 561-563.	1.0	12
663	Band Excitation Scanning Probe Microscopies. <i>Microscopy Today</i> , 2010, 18, 34-40.	0.5	12
664	The impact of Purple Heart commendation and PTSD on mortality rates in older veterans. <i>Depression and Anxiety</i> , 2011, 28, 1086-1090.	4.2	12
665	Frequency spectroscopy of irreversible electrochemical nucleation kinetics on the nanoscale. <i>Nanoscale</i> , 2013, 5, 11964.	5.8	12
666	Near-field microwave microscopy of high- κ oxides grown on graphene with an organic seeding layer. <i>Applied Physics Letters</i> , 2013, 103, .	3.2	12

#	ARTICLE	IF	CITATIONS
667	Water-mediated electrochemical nano-writing on thin ceria films. <i>Nanotechnology</i> , 2014, 25, 075701.	2.7	12
668	Spatially-resolved mapping of history-dependent coupled electrochemical and electrical behaviors of electroresistive NiO. <i>Scientific Reports</i> , 2014, 4, 6725.	3.4	12
669	<i>Lacinutrix chionocetis</i> sp. nov., isolated from gut of a red snow crab. <i>Archives of Microbiology</i> , 2017, 199, 597-603.	2.2	12
670	Elasticity Modulation Due to Polarization Reversal and Ionic Motion in the Ferroelectric Superionic Conductor KTiOPO_4 . <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 32298-32303.	8.3	12
671	Building a free-energy functional from atomically resolved imaging: Atomic-scale phenomena in La-doped BiFeO_3 . <i>Physical Review B</i> , 2019, 99, .		12
672	Nursing Students' Perceptions of Nursing Metaparadigms: A Phenomenological Study. <i>The Journal of Nursing Research: JNR</i> , 2019, 27, e45.	1.8	12
673	CD82 Suppresses ADAM17-Dependent E-Cadherin Cleavage and Cell Migration in Prostate Cancer. <i>Disease Markers</i> , 2020, 2020, 1-10.	1.4	12
674	Electromechanical Behavior in Biological Systems at the Nanoscale. , 2007, , 615-633.		12
675	Detection of defects in atomic-resolution images of materials using cycle analysis. <i>Advanced Structural and Chemical Imaging</i> , 2020, 6, .	4.0	12
676	Association between physical activity and patient-reported outcome measures in patients with lung cancer: a systematic review and meta-analysis. <i>Quality of Life Research</i> , 2022, 31, 1963-1976.	3.2	12
677	Bridging microscopy with molecular dynamics and quantum simulations: an atomAI based pipeline. <i>Npj Computational Materials</i> , 2022, 8, .	9.1	12
678	Chemical composition of the extracellular slime glycolipoprotein of <i>Pseudomonas aeruginosa</i> and its relation to gentamicin resistance. <i>Journal of Medical Microbiology</i> , 1986, 21, 199-202.	1.8	11
679	The fractal particles of iron (III) hydroxonitrate: From solution to solid state. <i>Journal of Non-Crystalline Solids</i> , 1995, 181, 146-150.	3.2	11
680	Electrochemical Strain Microscopy: Probing Electrochemical Transformations in Nanoscale Volumes. <i>Microscopy Today</i> , 2012, 20, 10-15.	0.5	11
681	Electromechanical and elastic probing of bacteria in a cell culture medium. <i>Nanotechnology</i> , 2012, 23, 245705.	2.7	11
682	In Situ Observations and Tuning of Physical and Chemical Phenomena on the Surfaces of Strongly Correlated Oxides. <i>Advanced Functional Materials</i> , 2013, 23, 2477-2489.	16.5	11
683	Measurement of four-jet differential cross sections in $\sqrt{s}=8$ TeV proton-proton collisions using the ATLAS detector. <i>Journal of High Energy Physics</i> , 2015, 2015, 1-76.	4.8	11
684	Data encoding based on the shape of the ferroelectric domains produced by using a scanning probe microscope tip. <i>Nanoscale</i> , 2015, 7, 11040-11047.	5.8	11

#	ARTICLE	IF	CITATIONS
685	Synthesis, curing behavior, and thermal properties of fluorene-based benzoxazine-endcapped copoly(ether ketone ketone)s. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 119, 1913-1921.	3.6	11
686	Nanoparticle Shape Evolution and Proximity Effects During Tip-Induced Electrochemical Processes. <i>ACS Nano</i> , 2016, 10, 663-671.	15.3	11
687	Ferromagnetic-like behavior of Bi _{0.9} La _{0.1} FeO ₃ –KBr nanocomposites. <i>Scientific Reports</i> , 2019, 9, 10417.	3.4	11
688	Ferroelectric domain engineering of lithium niobate single crystal confined in glass. <i>MRS Communications</i> , 2019, 9, 334-339.	1.8	11
689	Application of pan-sharpening algorithm for correlative multimodal imaging using AFM-IR. <i>Npj Computational Materials</i> , 2019, 5, .	9.1	11
690	Malignancies associated with GIST: a retrospective study with molecular analysis of KIT and PDGFRA. <i>Langenbeck's Archives of Surgery</i> , 2019, 404, 605-613.	1.9	11
691	Phenomenological description of bright domain walls in ferroelectric-antiferroelectric layered chalcogenides. <i>Physical Review B</i> , 2020, 102, .	3.3	11
692	Ferroelastic Nanodomain-mediated Mechanical Switching of Ferroelectricity in Thick Epitaxial Films. <i>Nano Letters</i> , 2021, 21, 445-452.	9.5	11
693	Ferroelectric and Charge Transport Properties in Strain-Engineered Two-Dimensional Lead Iodide Perovskites. <i>Chemistry of Materials</i> , 2021, 33, 4077-4088.	7.1	11
694	Unraveling the hysteretic behavior at double cations-double halides perovskite - electrode interfaces. <i>Nano Energy</i> , 2021, 89, 106428.	16.5	11
695	Recent Patents of Lasers in Implant Dentistry. <i>Recent Patents on Biomedical Engineering</i> , 2011, 4, 103-109.	0.4	11
696	Effect of Surface Ionic Screening on Polarization Reversal and Phase Diagrams in Thin Antiferroelectric Films for Information and Energy Storage. <i>Physical Review Applied</i> , 2021, 16, .	3.8	11
697	Tracking atomic structure evolution during directed electron beam induced Si-atom motion in graphene via deep machine learning. <i>Nanotechnology</i> , 2021, 32, 035703.	2.7	11
698	Towards automating structural discovery in scanning transmission electron microscopy [*]. <i>Machine Learning: Science and Technology</i> , 2022, 3, 015024.	5.2	11
699	Investigation of the transverse fracture mechanisms of bamboo by the finite element method. <i>Journal of Materials Science</i> , 2022, 57, 6233-6248.	3.7	11
700	Machine learning for automated experimentation in scanning transmission electron microscopy. <i>Npj Computational Materials</i> , 2023, 9, .	9.1	11
701	Application of non-linear heating regime for the determination of activation energy and kinetic parameters of solid-state reactions. <i>Thermochimica Acta</i> , 1998, 323, 101-107.	2.7	10
702	Cryosol Synthesis of Nanocrystalline Alumina. <i>Chemistry of Materials</i> , 1998, 10, 3548-3554.	7.1	10

#	ARTICLE	IF	CITATIONS
703	A Model for Predicting the Future Incidence of Coronary Heart Disease Within Percentiles of Coronary Heart Disease Risk. <i>European Journal of Cardiovascular Prevention and Rehabilitation</i> , 2001, 8, 31-37.	2.8	10
704	In-situ LIF Analysis of Biological and Petroleum-based Hydraulic Oils on Soil. <i>Sensors</i> , 2005, 5, 61-69.	4.0	10
705	Observing the superparaelectric limit of relaxor (Na _{1-x} Bi _x) _{0.9} Ba _{0.1} TiO ₃ nanocrystals. <i>Applied Physics Letters</i> , 2006, 89, 112901.	3.2	10
706	Detection of Indentation Induced FE-to-AFE Phase Transformation in Lead Zirconate Titanate. <i>Journal of the American Ceramic Society</i> , 2006, 89, 3557-3559.	3.8	10
707	Microwave Induced Improved Synthesis of Some Novel Substituted 1, 3-Diarylpropenones and their Antimicrobial Activity. <i>Journal of Chemistry</i> , 2011, 8, 665-670.	2.0	10
708	KPFM and PFM of Biological Systems. <i>Springer Series in Surface Sciences</i> , 2012, , 243-287.	0.0	10
709	Synthesis and electroplating of high resolution insulated carbon nanotube scanning probes for imaging in liquid solutions. <i>Nanotechnology</i> , 2012, 23, 145301.	2.7	10
710	Second harmonic detection in the electrochemical strain microscopy of Ag-ion conducting glass. <i>Applied Physics Letters</i> , 2014, 105, .	3.2	10
711	Role of chalcogen vapor annealing in inducing bulk superconductivity in Fe_{1-x}Te . <i>Physical Review B</i> , 2015, 91, .	3.2	10
712	Measurement of the $\frac{Z}{\gamma} \rightarrow \text{Au Au}$ cross section in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ and validation of $\frac{Z}{\gamma}$. <i>European Physical Journal C</i> , 2018, 78, 708.	4.0	10
713	Gyrokinetic full-f particle-in-cell simulations on open field lines with PICLS. <i>Physics of Plasmas</i> , 2019, 26, 122302.	1.9	10
714	Guided search for desired functional responses via Bayesian optimization of generative model: Hysteresis loop shape engineering in ferroelectrics. <i>Journal of Applied Physics</i> , 2020, 128, .	2.3	10
715	Vascular endothelial growth factor B exerts lipid-lowering effect by activating AMPK via VEGFR1. <i>Life Sciences</i> , 2021, 276, 119401.	4.4	10
716	Flexosensitive polarization vortices in thin ferroelectric films. <i>Physical Review B</i> , 2021, 104, .	3.3	10
717	Micromagnetic and magnetoresistance studies of ferromagnetic La _{0.83} Sr _{0.13} MnO _{2.98} crystals. <i>Physical Review B</i> , 2002, 65, .	3.3	9
718	Application of spectromicroscopy tools to explore local origins of sensor activity in quasi-1D oxide nanostructures. <i>Nanotechnology</i> , 2006, 17, 4014-4018.	2.7	9
719	Direct measurement of periodic electric forces in liquids. <i>Journal of Applied Physics</i> , 2008, 103, 014306.	2.3	9
720	Piezoresponse Force Microscopy. <i>Microscopy Today</i> , 2009, 17, 10-15.	0.5	9

#	ARTICLE	IF	CITATIONS
721	Composition dependence of local piezoelectric nonlinearity in (0.3)Pb(Ni _{0.33} Nb _{0.67})O ₃ -(0.7)Pb(ZrTi _{1-x})O ₃ films. Journal of Applied Physics, 2011, 110, .	2.3	9
722	Impact of Free Charges on Polarization and Pyroelectricity in Antiferrodistortive Structures and Surfaces Induced by a Flexoelectric Effect. Ferroelectrics, 2012, 438, 32-44.	0.6	9
723	Probing Bias-Dependent Electrochemical Gas-Solid Reactions in (La _x Sr _{1-x})CoO ₃ Cathode Materials. Advanced Functional Materials, 2013, 23, 5027-5036.	16.5	9
724	Enhanced photocurrent in single-walled carbon nanotubes by exciton interactions. Applied Physics Letters, 2013, 102, .	3.2	9
725	Mesoscopic mechanism of the domain wall interaction with elastic defects in uniaxial ferroelectrics. Journal of Applied Physics, 2013, 113, .	2.3	9
726	Electrochemistry at the Nanoscale: The Force Dimension. Electrochemical Society Interface, 2014, 23, 53-59.	0.5	9
727	Mesoscopic harmonic mapping of electromechanical response in a relaxor ferroelectric. Applied Physics Letters, 2015, 106, 222901.	3.2	9
728	Analysis of citation networks as a new tool for scientific research. MRS Bulletin, 2016, 41, 1009-1016.	4.2	9
729	Exploring Polarization Rotation Instabilities in Super-Tetragonal BiFeO ₃ Epitaxial Thin Films and Their Technological Implications. Advanced Electronic Materials, 2016, 2, 1600307.	5.4	9
730	Contradictory nature of Co doping in ferroelectric BaTi ₃ O ₃ . Physical Review B, 2016, 94, .	3.3	9
731	Improved spatial resolution for spot sampling in thermal desorption atomic force microscopy mass spectrometry via rapid heating functions. Nanoscale, 2017, 9, 5708-5717.	5.8	9
732	Microvascular replantation of head and neck amputated parts: A systematic review. Microsurgery, 2017, 37, 699-706.	1.3	9
733	Limits on uranium and thorium bulk content in Gerda Phase I detectors. Astroparticle Physics, 2017, 91, 15-21.	4.4	9
734	Nanoscale Probing of Elastic-Electronic Response to Vacancy Motion in NiO Nanocrystals. ACS Nano, 2017, 11, 8387-8394.	15.3	9
735	Photothermoelastic contrast in nanoscale infrared spectroscopy. Applied Physics Letters, 2018, 112, .	3.2	9
736	Clinical features of children with multicystic dysplastic kidney. Pediatrics International, 2018, 60, 750-754.	0.5	9
737	Cd-free Cu-doped ZnInS/ZnS Core/Shell Nanocrystals: Controlled Synthesis And Photophysical Properties. Nanoscale Research Letters, 2018, 13, 182.	5.9	9
738	Competing phases in epitaxial vanadium dioxide at nanoscale. APL Materials, 2019, 7, .	4.8	9

#	ARTICLE	IF	CITATIONS
739	Inflammatory bowel disease-associated ubiquitin ligase RNF183 promotes lysosomal degradation of DR5 and TRAIL-induced caspase activation. <i>Scientific Reports</i> , 2019, 9, 20301.	3.4	9
740	Bayesian inference in band excitation scanning probe microscopy for optimal dynamic model selection in imaging. <i>Journal of Applied Physics</i> , 2020, 128, 054105.	2.3	9
741	High-Pressure, High-Temperature Synthesis and Characterization of Polar and Magnetic LuCrWO ₆ . <i>Inorganic Chemistry</i> , 2020, 59, 3579-3584.	4.2	9
742	A first-principles study on strain engineering of monolayer stanene for enhanced catalysis of CO ₂ reduction. <i>Chemosphere</i> , 2021, 268, 129317.	8.4	9
743	Bayesian Learning of Adatom Interactions from Atomically Resolved Imaging Data. <i>ACS Nano</i> , 2021, 15, 9649-9657.	15.3	9
744	Decoding the shift-invariant data: applications for band-excitation scanning probe microscopy [*] . <i>Machine Learning: Science and Technology</i> , 2021, 2, 045028.	5.2	9
745	Piezoresponse force microscopy and recent advances in nanoscale studies of ferroelectrics. , 2006, , 107-116.		9
746	Two-color, two-dimensional pyrometers based on monochrome and color cameras for high-temperature (>1000 K) planar measurements. <i>Review of Scientific Instruments</i> , 2020, 91, 114901.	1.4	9
747	Data visualization literacy:.. , 2020, , 207-222.		9
748	From atomically resolved imaging to generative and causal models. <i>Nature Physics</i> , 2022, 18, 1152-1160.	11.8	9
749	Disentangling Electronic Transport and Hysteresis at Individual Grain Boundaries in Hybrid Perovskites via Automated Scanning Probe Microscopy. <i>ACS Nano</i> , 2023, 17, 9647-9657.	15.3	9
750	A new combined Bodian-Luxol technique for staining unmyelinated axons in semithin, resin-embedded peripheral nerves: a comparison with electron microscopy. <i>Acta Neuropathologica</i> , 1999, 98, 323-329.	7.9	8
751	Evolution of fractal particles in systems with conserved order parameter. <i>Physical Review E</i> , 2000, 61, 1189-1194.	2.1	8
752	Analysis of phase distributions in the Li ₂ Oâ€“Nb ₂ O ₅ â€“TiO ₂ system by piezoresponse imaging. <i>Journal of Materials Research</i> , 2001, 16, 329-332.	2.6	8
753	Scanning frequency mixing microscopy of high-frequency transport behavior at electroactive interfaces. <i>Applied Physics Letters</i> , 2006, 88, 143128.	3.2	8
754	Dynamic and Spectroscopic Modes and Multivariate Data Analysis in Piezoresponse Force Microscopy. , 2010, , 491-528.		8
755	Effects of lateral and substrate constraint on the piezoresponse of ferroelectric nanostructures. <i>Applied Physics Letters</i> , 2012, 101, 112901.	3.2	8
756	Temperature-composition phase diagrams for Ba<math display="inline">Sr</math> Fe	3.3	8

#	ARTICLE	IF	CITATIONS
757	Controlled mechanical modification of manganite surface with nanoscale resolution. <i>Nanotechnology</i> , 2014, 25, 475302.	2.7	8
758	The Ehrlich-Schwoebel barrier on an oxide surface: a combined Monte-Carlo and <i>in situ</i> scanning tunneling microscopy approach. <i>Nanotechnology</i> , 2015, 26, 455705.	2.7	8
759	Antisite defects in layered multiferroic $\text{CuCr}_{0.9}\text{In}_{0.1}\text{P}_2\text{S}_6$. <i>Nanoscale</i> , 2015, 7, 18579-18583.	5.8	8
760	Local coexistence of VO ₂ phases revealed by deep data analysis. <i>Scientific Reports</i> , 2016, 6, 29216.	3.4	8
761	Electrochemical reactivity and proton transport mechanisms in nanostructured ceria. <i>Nanotechnology</i> , 2016, 27, 345401.	2.7	8
762	Localised nanoscale resistive switching in GaP thin films with low power consumption. <i>Journal of Materials Chemistry C</i> , 2017, 5, 2153-2159.	5.6	8
763	Probing the solid-liquid interface. <i>Nature Materials</i> , 2017, 16, 704-705.	26.6	8
764	Decoupling Mesoscale Functional Response in PLZT across the Ferroelectric-Relaxor Phase Transition with Contact Kelvin Probe Force Microscopy and Machine Learning. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42674-42680.	8.3	8
765	Statistical learning of governing equations of dynamics from <i>in-situ</i> electron microscopy imaging data. <i>Materials and Design</i> , 2020, 195, 108973.	7.2	8
766	Exploring phase transitions and magnetoelectric coupling of epitaxial asymmetric multilayer heterostructures. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12113-12122.	5.6	8
767	Predictability as a probe of manifest and latent physics: The case of atomic scale structural, chemical, and polarization behaviors in multiferroic Sm-doped BiFeO ₃ . <i>Applied Physics Reviews</i> , 2021, 8, .	11.7	8
768	Acquisition and User Behavior in Online Science Laboratories before and during the COVID-19 Pandemic. <i>Multimodal Technologies and Interaction</i> , 2021, 5, 46.	2.6	8
769	Exploration of lattice Hamiltonians for functional and structural discovery via Gaussian process-based exploration-exploitation. <i>Journal of Applied Physics</i> , 2020, 128, .	2.3	8
770	Learning and Predicting Photonic Responses of Plasmonic Nanoparticle Assemblies via Dual Variational Autoencoders. <i>Small</i> , 2023, 19, .	11.2	8
771	Nonlinear Dielectric Properties at Oxide Grain Boundaries. <i>International Journal of Materials Research</i> , 2003, 94, 188-192.	0.8	7
772	Electronic transport through <i>in situ</i> grown ultrathin BaTiO ₃ films. <i>Applied Physics Letters</i> , 2009, 95, 032903.	3.2	7
773	Quantitative Nanometer-Scale Mapping of Dielectric Tunability. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500088.	4.1	7
774	Making a point of control. <i>Nature Physics</i> , 2017, 13, 115-116.	11.8	7

#	ARTICLE	IF	CITATIONS
775	Direct Imaging of the Relaxation of Individual Ferroelectric Interfaces in a Tensile-Strained Film. <i>Advanced Electronic Materials</i> , 2017, 3, 1600508.	5.4	7
776	Electronic-Reconstruction-Enhanced Tunneling Conductance at Terrace Edges of Ultrathin Oxide Films. <i>Advanced Materials</i> , 2017, 29, 1702001.	24.3	7
777	Subtractive fabrication of ferroelectric thin films with precisely controlled thickness. <i>Nanotechnology</i> , 2018, 29, 155302.	2.7	7
778	Connected Tree-Width. <i>Combinatorica</i> , 2018, 38, 381-398.	1.1	7
779	The Influence of Code Coverage Metrics on Automated Testing Efficiency in Android. , 2018, , .		7
780	<i>CYP3A5</i> and <i>ABCB1</i> Polymorphisms in Living Donors Do Not Impact Clinical Outcome After Kidney Transplantation. <i>Pharmacogenomics</i> , 2018, 19, 895-903.	1.4	7
781	Ferroc twin domains in metal halide perovskites. <i>MRS Advances</i> , 2019, 4, 2817-2830.	1.0	7
782	Extended Half-Life Factor VIII/Factor IX Products: Assay Discrepancies and Implications for Hemophilia Management. <i>Hamostaseologie</i> , 2020, 40, S15-S20.	1.7	7
783	Development of a Novel Interactive Multimedia E-Learning Model to Enhance Clinical Competency Training and Quality of Care among Medical Students. <i>Healthcare (Switzerland)</i> , 2020, 8, 500.	2.1	7
784	Super-resolution and signal separation in contact Kelvin probe force microscopy of electrochemically active ferroelectric materials. <i>Journal of Applied Physics</i> , 2020, 128, .	2.3	7
785	Search for supersymmetry in proton-proton collisions at $\sqrt{s} = 13$ TeV in events with high-momentum Z bosons and missing transverse momentum. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.8	7
786	Phase diagrams of single-layer two-dimensional transition metal dichalcogenides: Landau theory. <i>Physical Review B</i> , 2020, 101, .	3.3	7
787	Strain-polarization coupling mechanism of enhanced conductivity at the grain boundaries in BiFeO ₃ thin films. <i>Applied Materials Today</i> , 2020, 20, 100740.	4.5	7
788	Investigating phase transitions from local crystallographic analysis based on statistical learning of atomic environments in 2D MoS ₂ -ReS ₂ . <i>Applied Physics Reviews</i> , 2021, 8, 011409.	11.7	7
789	Deep learning ferroelectric polarization distributions from STEM data via with and without atom finding. <i>Npj Computational Materials</i> , 2021, 7, .	9.1	7
790	Identification and correction of temporal and spatial distortions in scanning transmission electron microscopy. <i>Ultramicroscopy</i> , 2021, 229, 113337.	1.9	7
791	Deep learning of interface structures from simulated 4D STEM data: cation intermixing vs. roughening \hat{L} . <i>Machine Learning: Science and Technology</i> , 2020, 1, 04LT01.	5.2	7
792	Surface reconstructions and modified surface states in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mrow} \langle \text{mml:mi} \text{mathvariant="normal"} \rangle L \langle \text{mml:msub} \langle \text{mml:mi} \text{mathvariant="normal"} \rangle a \langle \text{mml:mrow} \langle \text{mml:mn} \rangle 1 \langle \text{mml:mo} \rangle \hat{a} \langle \text{mml:mi} \rangle x \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:mi} \text{mathvariant="normal"} \rangle C \langle \text{mml:msub} \langle \text{mml:mi} \text{mathvariant="normal"} \rangle a \langle \text{mml:mi} \rangle x \langle \text{mml:msub} \langle \text{mml:mi} \rangle Mn \langle \text{mml:msub} \langle \text{mml:mi} \rangle$	2.5	7

#	ARTICLE	IF	CITATIONS
793	Latent Mechanisms of Polarization Switching from In Situ Electron Microscopy Observations. <i>Advanced Functional Materials</i> , 2022, 32, .	16.5	7
794	Preparation of antimicrobial activated carbon fiber for adsorption. <i>Journal of Porous Materials</i> , 2022, 29, 1071-1081.	2.6	7
795	Performance Analysis of Conventional Machine Learning Algorithms for Diabetic Sensorimotor Polyneuropathy Severity Classification Using Nerve Conduction Studies. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-13.	1.8	7
796	Configuration-Dependent Liquid Crystal and Gel Behaviors of Tetraphenylethene-Containing Main-Chain Copolyesters. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2200154.	4.4	7
797	Tackling overpublishing by moving to open-ended papers. <i>Nature Materials</i> , 2023, 22, 270-271.	26.6	7
798	Kinetics of Solid State Reactions With Fractal Reagent. <i>Journal of Materials Synthesis and Processing</i> , 1998, 6, 305-309.	0.3	6
799	Cryosol method: A novel powder processing technique based on ion-exchange phenomena. <i>Journal of Materials Research</i> , 1998, 13, 901-904.	2.6	6
800	Synthesis of PbS/S Nanostructures through Chemical Modification of Layered Double Hydroxides. <i>Doklady Chemistry</i> , 2002, 383, 93-96.	0.9	6
801	Electric Scanning Probe Imaging and Modification of Ferroelectric Surfaces. <i>Nanoscience and Technology</i> , 2004, , 1-43.	0.0	6
802	Severe Peritonitis due to <i>Streptococcus viridans</i> Following Adjustable Gastric Banding. <i>Obesity Surgery</i> , 2010, 20, 1603-1605.	2.4	6
803	Effect of silver doping on the surface of La _{5/8} Ca _{3/8} MnO ₃ epitaxial films. <i>Applied Physics Letters</i> , 2014, 105, .	3.2	6
804	Electrocatalysis-induced elasticity modulation in a superionic proton conductor probed by band-excitation atomic force microscopy. <i>Nanoscale</i> , 2015, 7, 20089-20094.	5.8	6
805	Decoding Apparent Ferroelectricity in Perovskite Nanofibers. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42131-42138.	8.3	6
806	An amino-terminal threonine/serine motif is necessary for activity of the Crp/Fnr homolog, MrpC and for <i>Myxococcus xanthus</i> developmental robustness. <i>Molecular Microbiology</i> , 2019, 112, 1531-1551.	2.5	6
807	Improving care for critically ill patients with community-acquired pneumonia. <i>American Journal of Health-System Pharmacy</i> , 2019, 76, 861-868.	1.1	6
808	Three-dimensional printing of diamagnetic microparticles in paramagnetic and diamagnetic media. <i>Physics of Fluids</i> , 2020, 32, .	3.9	6
809	Profiling of the viable bacterial and fungal microbiota in fermented feeds using single-molecule real-time sequencing. <i>Journal of Animal Science</i> , 2020, 98, .	0.5	6
810	Alignment of Au nanorods along <i>de novo</i> designed protein nanofibers studied with automated image analysis. <i>Soft Matter</i> , 2021, 17, 6109-6115.	2.8	6

#	ARTICLE	IF	CITATIONS
811	Renal Transplantation in Iraq. <i>Transplantation</i> , 2021, 105, 1131-1134.	1.1	6
812	Gaussian process analysis of electron energy loss spectroscopy data: multivariate reconstruction and kernel control. <i>Npj Computational Materials</i> , 2021, 7, .	9.1	6
813	Probing Metastable Domain Dynamics <i>via</i> Automated Experimentation in Piezoresponse Force Microscopy. <i>ACS Nano</i> , 2021, 15, 15096-15103.	15.3	6
814	Sculpting the Plasmonic Responses of Nanoparticles by Directed Electron Beam Irradiation. <i>Small</i> , 2022, 18, e2105099.	11.2	6
815	Tunable Microwave Conductance of Nanodomains in Ferroelectric PbZr _{0.2} Ti _{0.8} O ₃ Thin Film. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.4	6
816	Exploring leakage in dielectric films via automated experiments in scanning probe microscopy. <i>Applied Physics Letters</i> , 2022, 120, .	3.2	6
817	Learning the right channel in multimodal imaging: automated experiment in piezoresponse force microscopy. <i>Npj Computational Materials</i> , 2023, 9, .	9.1	6
818	A dynamic Bayesian optimized active recommender system for curiosity-driven partially Human-in-the-loop automated experiments. <i>Npj Computational Materials</i> , 2024, 10, .	9.1	6
819	A METHOD FOR ESTIMATING TOTAL POLYPHENOLS IN BEER. <i>Journal of the Institute of Brewing</i> , 1973, 79, 165-169.	2.3	5
820	Lipoprotein levels in patients with pregnancy induced hypertension. <i>Archives of Gynecology and Obstetrics</i> , 1996, 258, 21-24.	1.8	5
821	Local Polarization, Charge Compensation, and Chemical Interactions on Ferroelectric Surfaces: a Route Toward New Nanostructures. <i>Materials Research Society Symposia Proceedings</i> , 2001, 688, 1.	0.1	5
822	Local Potential at Atomically Abrupt Oxide Grain Boundaries by Scanning Probe Microscopy. <i>Solid State Phenomena</i> , 2001, 80-81, 33-46.	0.2	5
823	End-diastolic and end-systolic volume from the left ventricular angiogram: how accurate is visual frame selection? Comparison between visual and semi-automated computer-assisted analysis. <i>International Journal of Cardiovascular Imaging</i> , 2003, 19, 259-266.	0.8	5
824	Surface dynamics of the layered ruthenate Ca _{1.9} Sr _{0.1} RuO ₄ . <i>Physica Status Solidi (B): Basic Research</i> , 2004, 241, 2363-2366.	1.6	5
825	Rwt4, a wheat gene for resistance to <i>Avena</i> isolates of <i>Magnaporthe oryzae</i> , functions as a gene for resistance to <i>Panicum</i> isolates in Japan. <i>Journal of General Plant Pathology</i> , 2007, 73, 22-28.	1.0	5
826	Preface to Special Topic: Piezoresponse Force Microscopy and Nanoscale Phenomena in Polar Materials. <i>Journal of Applied Physics</i> , 2012, 112, 051901.	2.3	5
827	Analysis of a superbolide from a damocloid observed over Spain on 2012 July 13. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 436, 3656-3662.	4.6	5
828	Determination of endosulfan isomers and their metabolites in tap water and commercial samples using microextraction by packed sorbent and GC-MS. <i>Journal of Separation Science</i> , 2014, 37, 966-973.	2.9	5

#	ARTICLE	IF	CITATIONS
829	Magnetically-coupled boost-forward converter for high efficiency differential power processing systems. <i>IEICE Electronics Express</i> , 2017, 14, 20161202-20161202.	0.8	5
830	In situ coating nickel organic complexes on free-standing nickel wire films for volumetric-energy-dense supercapacitors. <i>Nanotechnology</i> , 2018, 29, 275401.	2.7	5
831	Theory-assisted determination of nano-rippling and impurities in atomic resolution images of angle-mismatched bilayer graphene. <i>2D Materials</i> , 2018, 5, 041008.	4.5	5
832	Melting of spatially modulated phases at domain wall/surface junctions in antiferrodistortive multiferroics. <i>Physical Review B</i> , 2020, 102, .	3.3	5
833	Direct matter disassembly via electron beam control: electron-beam-mediated catalytic etching of graphene by nanoparticles. <i>Nanotechnology</i> , 2020, 31, 245303.	2.7	5
834	Correlation of Spatiotemporal Dynamics of Polarization and Charge Transport in Blended Hybrid Organic-Inorganic Perovskites on Macro- and Nanoscales. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15380-15388.	8.3	5
835	Probing potential energy landscapes via electron-beam-induced single atom dynamics. <i>Acta Materialia</i> , 2021, 203, 116508.	8.0	5
836	Effects of elevated ozone and nitrogen addition on leaf nitrogen metabolism in poplar. <i>Journal of Plant Ecology</i> , 2021, 14, 555-568.	2.4	5
837	Probing polarization dynamics at specific domain configurations: Computer-vision based automated experiment in piezoresponse force microscopy. <i>Applied Physics Letters</i> , 2021, 119, .	3.2	5
838	Polarization and Charge Dynamics in Ferroelectric Materials with SPM. , 2004, , 183-217.		5
839	Electronic switching by metastable polarization states in BiFeO_3 thin films. <i>Physical Review Materials</i> , 2018, 2, .	2.5	5
840	Relative rotor phasing for multicopter vibratory load minimisation. <i>Aeronautical Journal</i> , 0, , 1-20.	1.8	5
841	Availability as key determinant in the palliative home care setting from the patients' and family caregivers' perspectives: A quantitative-qualitative-content analysis approach. <i>Palliative and Supportive Care</i> , 2021, 19, 570-579.	1.2	5
842	Structure-antitumor activity relationships of tripodal imidazolium-amino acid based salts. Effect of the nature of the amino acid, amide substitution and anion. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 10575-10586.	2.9	5
843	Finafloxacin, a Novel Fluoroquinolone, Reduces the Clinical Signs of Infection and Pathology in a Mouse Model of Q Fever. <i>Frontiers in Microbiology</i> , 2021, 12, 760698.	3.6	5
844	SARS-COV-2 detection in saliva and nasopharyngeal swabs using RT-PCR was similar. <i>Brazilian Dental Journal</i> , 2022, 33, 68-72.	1.1	5
845	Accretion flows around exotic tidal wormholes. <i>Astronomy and Astrophysics</i> , 2022, 665, A139.	5.3	5
846	The Effect of Copolymerization of Tetraethylorthosilicate and Aluminum Hydroxonitrates. <i>Journal of Solid State Chemistry</i> , 1999, 147, 304-308.	3.0	4

#	ARTICLE	IF	CITATIONS
847	Scanning Impedance Microscopy: From Impedance Spectra to Impedance Images. Materials Research Society Symposia Proceedings, 2001, 699, 121.	0.1	4
848	Nanoelectromechanics of Piezoresponse Force Microscopy: Contact Properties, Fields Below the Surface and Polarization Switching. Materials Research Society Symposia Proceedings, 2003, 784, 261.	0.1	4
849	Preface to Special Topic: Invited Papers from the International Symposium on Piezoresponse Force Microscopy and Nanoscale Phenomena in Polar Materials, Aveiro, Portugal, 2009. Journal of Applied Physics, 2010, 108, 041901.	2.3	4
850	In Situ Formation of Micron-Scale Li-Metal Anodes with High Cyclability. ECS Electrochemistry Letters, 2013, 3, A4-A7.	1.8	4
851	Impact of aerosols on the forecast accuracy of solar irradiance calculated by a numerical weather prediction model. European Physical Journal: Special Topics, 2014, 223, 2621-2630.	2.6	4
852	Extracting physics through deep data analysis. Materials Today, 2014, 17, 416-417.	18.1	4
853	Intrinsic space charge layers and field enhancement in ferroelectric nanojunctions. Applied Physics Letters, 2015, 107, 022903.	3.2	4
854	Piezoelectric response enhancement in the proximity of grain boundaries of relaxor-ferroelectric thin films. Applied Physics Letters, 2016, 108, 242908.	3.2	4
855	Correlation between piezoresponse nonlinearity and hysteresis in ferroelectric crystals at the nanoscale. Applied Physics Letters, 2016, 108, .	3.2	4
856	Efficient synthesis and RAFT polymerization of the previously elusive N-[(cycloalkylamino)methyl]acrylamide monomer class. Journal of Polymer Science Part A, 2017, 55, 2123-2128.	2.4	4
857	Progress implementing a model-based iterative reconstruction algorithm for ultrasound imaging of thick concrete. AIP Conference Proceedings, 2017, . .	1.0	4
858	Spatially Resolved XPS Characterization of Electrochemical Surfaces. Surfaces, 2019, 2, 295-314.	2.3	4
859	Outcomes of Vitrectomy Combined with Scleral Buckling for Eyes with Early Recurrence of Simple Rhegmatogenous Retinal Detachment Previously Treated by Pars Plana Vitrectomy. Journal of Ophthalmology, 2020, 2020, 1-7.	1.3	4
860	Reconstruction of effective potential from statistical analysis of dynamic trajectories. AIP Advances, 2020, 10, .	1.3	4
861	<i>Andrographis paniculata</i> and Its Main Bioactive Ingredient Andrographolide Decrease Alcohol Drinking and Seeking in Rats Through Activation of Nuclear PPAR β Pathway. Alcohol and Alcoholism, 2021, 56, 240-249.	1.7	4
862	Islet transplantation ameliorates diabetes-induced testicular interstitial fibrosis and is associated with inhibition of TGF- β 1/Smad2 pathway in a rat model of type 1 diabetes. Molecular Medicine Reports, 2021, 23, .	2.5	4
863	Anti-essentialism, modal relativity, and alternative material-origin counterfactuals. Synthese, 0, , 1.	1.2	4
864	Sub-10 nm Probing of Ferroelectricity in Heterogeneous Materials by Machine Learning Enabled Contact Kelvin Probe Force Microscopy. ACS Applied Electronic Materials, 2021, 3, 4409-4417.	4.4	4

#	ARTICLE	IF	CITATIONS
865	The value of using emotions in solution focused brief therapy. <i>Journal of Marital and Family Therapy</i> , 2022, 48, 812-826.	1.3	4
866	Chasing the Unicorn? The Feasibility of Automatic Assessment of Interpreting Fluency. <i>New Frontiers in Translation Studies</i> , 2021, , 143-158.	0.0	4
867	Frequency-Dependent Transport Imaging by Scanning Probe Microscopy. , 2007, , 132-172.		4
868	Mesoscopic structure of mixed type domain walls in multiaxial ferroelectrics. <i>Physical Review Materials</i> , 2020, 4, .	2.5	4
869	Exploring electron beam induced atomic assembly via reinforcement learning in a molecular dynamics environment. <i>Nanotechnology</i> , 2021, , .	2.7	4
870	Utility of procalcitonin and C-reactive protein as predictors of Gram-negative bacteremia in febrile hematological outpatients. <i>Supportive Care in Cancer</i> , 2022, 30, 4303-4314.	2.3	4
871	From inoperable to back to life: a case report of successfully treated obstructive right ventricular primary cardiac lymphoma. <i>European Heart Journal - Case Reports</i> , 2022, 6, ytac051.	0.6	4
872	Chemical control of polarization in thin strained films of a multiaxial ferroelectric: Phase diagrams and polarization rotation. <i>Physical Review B</i> , 2022, 105, .	3.3	4
873	Observability of negative capacitance of a ferroelectric film: Theoretical predictions. <i>Physical Review B</i> , 2022, 105, .	3.3	4
874	Ganoderma atrum polysaccharide relieves mitochondrial dysfunction to alleviate hydrogen peroxide-induced senescence via activating autophagy. <i>Journal of Future Foods</i> , 2022, 2, 241-252.	4.7	4
875	Electron-Beam Induced Emergence of Mesoscopic Ordering in Layered MnPS ₃ . <i>ACS Nano</i> , 2022, 16, 16713-16723.	15.3	4
876	Unsupervised machine learning discovery of structural units and transformation pathways from imaging data. , 2023, 1, .		4
877	The Ancient Near East and the Religion of Israel. <i>Journal of Biblical Literature</i> , 1940, 59, 85.	0.1	3
878	A Perspective from Controlled Investigations on Chemotherapy for Viral Respiratory Infections. <i>Journal of Infectious Diseases</i> , 1976, 133, A83-A92.	3.9	3
879	Immunological Studies of Heat-Labile Virus Inhibitors. <i>Microbiology and Immunology</i> , 1978, 22, 15-26.	1.8	3
880	Secondary fungal infections in chronic suppurative otitis media. <i>Indian Journal of Otolaryngology</i> , 1997, 49, 112-116.	0.1	3
881	Influence of The Preparation Conditions on the Structure of Hydrotalcite Layered Double Hydroxides. <i>Materials Research Society Symposia Proceedings</i> , 1998, 547, 239.	0.1	3
882	Potential theory, Maxwell's equations, relativity, radiation, and computers. <i>Computer Applications in Engineering Education</i> , 1999, 7, 51-86.	3.5	3

#	ARTICLE	IF	CITATIONS
883	Nanoimpedance Microscopy and Spectroscopy. Materials Research Society Symposia Proceedings, 2002, 738, 441.	0.1	3
884	Stratigraphie et paléoenvironnement des dépôts volcano-tritiques Ã dinosauriens du Jurassique inférieur de Toundoute (Province de Ouarzazate, Haut-Atlas â€“ Maroc). Eclogae Geologicae Helveticae, 2005, 98, 261-270.	0.6	3
885	Improvement of component mode synthesis model for vibration analysis of hard disk drives using attachment modes. Microsystem Technologies, 2007, 13, 1085-1092.	2.1	3
886	The Validity of FIM as a Predictor of Functional Independence of Stroke Patients: a Comparison between the Early and Late Elderly. Journal of Physical Therapy Science, 2012, 24, 321-329.	0.7	3
887	First self-perceived signs and symptoms in emerging psychosis compared with depression. Microbial Biotechnology, 2012, 6, 455-459.	1.9	3
888	Surface deformations as a necessary requirement for resistance switching at the surface of SrTiO ₃ :N. Nanotechnology, 2013, 24, 475701.	2.7	3
889	ELECTROCHEMICAL STRAIN MICROSCOPY OF LI-ION AND LI-AIR BATTERY MATERIALS. World Scientific Series in Nanoscience and Nanotechnology, 2013, , 393-454.	0.0	3
890	Reply to "Comment on "Origin of piezoelectric response under a biased scanning probe microscopy tip across a 180° ferroelectric domain wall". Physical Review B, 2014, 89, .	3.3	3
891	High-current AlGaN/GaN high electron mobility transistors achieved by selective area growth via plasma-assisted molecular beam epitaxy. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 180-183.	1.9	3
892	Anomalous Photodeposition of Ag on Ferroelectric Surfaces with Below-Bandgap Excitation. Advanced Optical Materials, 2014, 2, 292-299.	7.9	3
893	Sub-nA spatially resolved conductivity profiling of surface and interface defects in ceria films. APL Materials, 2015, 3, 036106.	4.8	3
894	Full Information Acquisition in Scanning Probe Microscopy. Microscopy Today, 2017, 25, 34-45.	0.5	3
895	Nanoscale Transport Imaging of Active Lateral Devices: Static and Frequency Dependent Modes. Springer Series in Surface Sciences, 2018, , 251-329.	0.0	3
896	Interatrial septal motion as a novel index to predict left atrial pressure. Heart and Vessels, 2018, 33, 762-769.	1.2	3
897	Dynamic Modes in Kelvin Probe Force Microscopy: Band Excitation and G-Mode. Springer Series in Surface Sciences, 2018, , 49-99.	0.0	3
898	Interaction between a punch and an arbitrary crack or inclusion in a transversely isotropic half-space. Zeitschrift Fur Angewandte Mathematik Und Physik, 2018, 69, 1.	1.4	3
899	Deep Data Analytics in Structural and Functional Imaging of Nanoscale Materials. Springer Series in Materials Science, 2018, , 103-128.	0.0	3
900	Generalized Synchronization of Chaotic Systems Using a Symplectic Pseudospectral Optimal Control Method. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
901	Multi-Model Imaging of Local Chemistry and Ferroic Properties of Hybrid Organic-Inorganic Perovskites. <i>Microscopy and Microanalysis</i> , 2019, 25, 2076-2077.	0.4	3
902	Statistical Physics-based Framework and Bayesian Inference for Model Selection and Uncertainty Quantification. <i>Microscopy and Microanalysis</i> , 2019, 25, 130-131.	0.4	3
903	Static and stability analyses of pretensioned latticed arch frame with integrated cable-strut arrangement. <i>Thin-Walled Structures</i> , 2019, 145, 106400.	5.4	3
904	Polarization-dependent local conductivity and activation energy in KTiOPO ₄ . <i>Applied Physics Letters</i> , 2019, 114, .	3.2	3
905	Exact, approximate and asymptotic solutions of the Kleinâ€“Gordon integral equation. <i>Journal of Engineering Mathematics</i> , 2019, 115, 141-156.	1.2	3
906	Materials and Devices with Probes and Beams: Down to the Atomic Level and Back Up. <i>Advanced Functional Materials</i> , 2019, 29, 1908267.	16.5	3
907	Practical Considerations and Opportunities for SGLT2 Inhibitor Prescription in Heart Failure. <i>Current Treatment Options in Cardiovascular Medicine</i> , 2020, 22, 1.	0.9	3
908	Exploring Responses of Contact Kelvin Probe Force Microscopy in Triple-Cation Double-Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2021, 125, 12355-12365.	3.3	3
909	Building an edge computing infrastructure for rapid multi-dimensional electron microscopy. <i>Microscopy and Microanalysis</i> , 2021, 27, 56-57.	0.4	3
910	A combined theoretical and experimental study of the phase coexistence and morphotropic boundaries in ferroelectric-antiferroelectric-antiferrodistortive multiferroics. <i>Acta Materialia</i> , 2021, 213, 116939.	8.0	3
911	Correlation between interalar distance and mesiodistal width of maxillary anterior teeth in Thrissur, Kerala, Indian population. <i>Journal of International Society of Preventive and Community Dentistry</i> , 2018, 8, 118.	1.2	3
912	Ex Vivo Human Placental Transfer of Rifampin and Rifabutin. <i>Infectious Diseases in Obstetrics and Gynecology</i> , 1996, 4, 319-322.	1.6	3
913	Modified Models for Predicting Malignancy Using Ultrasound Characters Have High Accuracy in Thyroid Nodules With Small Size. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 752417.	3.6	3
914	Lightâ€“ferroelectric interaction in two-dimensional lead iodide perovskites. <i>Journal of Materials Chemistry A</i> , 2022, 10, 10120-10131.	10.5	3
915	Decoding the Mechanisms of Phase Transitions from In Situ Microscopy Observations. <i>Small</i> , 2022, 18, .	11.2	3
916	New complementary python codes to locate Single Nucleotide Polymorphisms (SNPs) and Overlapping G-Quadruplex Sequences (G4s). <i>MethodsX</i> , 2022, 9, 101875.	1.6	3
917	Discovery of structureâ€“property relations for molecules via hypothesis-driven active learning over the chemical space. , 2023, 1, .		3
918	Review of low-cost self-driving laboratories in chemistry and materials science: the â€œfrugal twinâ€• concept. <i>Digital Discovery</i> , 2024, 3, 842-868.	5.7	3

#	ARTICLE	IF	CITATIONS
919	Visible spectra of fractal particles in colloidal solutions. <i>Chemical Physics Letters</i> , 1996, 262, 455-459.	2.7	2
920	Characterization of Ferroelectric BaTiO ₃ (100) Surfaces by Variable Temperature Scanning Surface Potential Microscopy and Piezoresponse Imaging. <i>Materials Research Society Symposia Proceedings</i> , 1999, 596, 327.	0.1	2
921	Channel adaptive scheduling for a wideband TDD/TCDMA wireless system under heterogeneous traffic conditions. <i>Computer Networks</i> , 2002, 38, 207-223.	5.5	2
922	Cu-free synthesis of screen-printed YBCO superconductor on Cu plates. <i>Physica C: Superconductivity and Its Applications</i> , 2004, 408-410, 908-910.	1.2	2
923	Inflammatory sternal metastasis heralding lung cancer: two cases. <i>Clinical Rheumatology</i> , 2006, 25, 409-411.	2.3	2
924	On-Site Freshwater Production for Offshore Facilities. , 2007, , .		2
925	Preface to special topic: Piezoresponse force microscopy and nanoscale phenomena in polar materials. <i>Journal of Applied Physics</i> , 2011, 110, 051901.	2.3	2
926	Scanning Probe Microscopy – Forces and Currents in the Nanoscale World. , 2012, , 539-614.		2
927	Preface to Special Topic: Selected Papers from the Piezoresponse Force Microscopy Workshop Series: Part of the Joint ISAF-ECAPD-PFM 2012 Conference. <i>Journal of Applied Physics</i> , 2013, 113, .	2.3	2
928	Scanning Probe Microscopy in US Department of Energy Nanoscale Science Research Centers: Status, Perspectives, and Opportunities. <i>Advanced Functional Materials</i> , 2013, 23, 2468-2476.	16.5	2
929	Enzyme – chromatin complex visualized. <i>Nature</i> , 2014, 514, 572-573.	36.2	2
930	Principles for aerospace Manufacturing Engineering in integrated New Product Introduction. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2014, 228, 801-810.	2.5	2
931	Point force and point electric charge applied to the boundary of three-dimensional anisotropic piezoelectric solid. <i>Journal of Applied Physics</i> , 2015, 118, .	2.3	2
932	Flexoelectricity Impact on the Domain Wall Structure and Polar Properties. , 2016, , 311-336.		2
933	Topological Defects in Ferroic Materials. <i>Springer Series in Materials Science</i> , 2016, , 181-197.	0.0	2
934	Spectral Map Reconstruction Using Pan-Sharpener Algorithm: Enhancing Chemical Imaging with AFM-IR. <i>Microscopy and Microanalysis</i> , 2019, 25, 1024-1025.	0.4	2
935	Structure retrieval from four-dimensional scanning transmission electron microscopy: Statistical analysis of potential pitfalls in high-dimensional data. <i>Physical Review E</i> , 2019, 100, 023308.	2.1	2
936	A PVT variation-tolerant static single-phase clocked dual-edge triggered flip-flop for aggressive voltage scaling. <i>IEICE Electronics Express</i> , 2019, 16, 20190528-20190528.	0.8	2

#	ARTICLE	IF	CITATIONS
937	No Cold Death—Extracorporeal Life Support for All Victims of Accidental Hypothermia. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2020, 34, 372-373.	1.3	2
938	Clinical characteristics and outcomes of autoimmune encephalitis patients associated with anti-glutamate decarboxylase antibody 65. <i>Clinical Neurology and Neurosurgery</i> , 2020, 196, 106082.	1.4	2
939	Tensor factorization for elucidating mechanisms of piezoresponse relaxation via dynamic Piezoresponse Force Spectroscopy. <i>Npj Computational Materials</i> , 2020, 6, .	9.1	2
940	Reconstruction of the interatomic forces from dynamic scanning transmission electron microscopy data. <i>Journal of Applied Physics</i> , 2020, 127, 224301.	2.3	2
941	Ordering with a twist. <i>Nature Nanotechnology</i> , 2020, 15, 515-516.	30.5	2
942	Study on the Guard Rings for Latchup Prevention between HV-PMOS and LV-PMOS in a 0.15- μm BCD Process. , 2021, , .		2
943	Propagation of priors for more accurate and efficient spectroscopic functional fits and their application to ferroelectric hysteresis. <i>Machine Learning: Science and Technology</i> , 2021, 2, 045002.	5.2	2
944	Testing the relationships among event personality, event image and runners'™ loyalty: a study of an international running event. <i>Sport, Business and Management</i> , 2021, , .	1.3	2
945	Reconstruction and uncertainty quantification of lattice Hamiltonian model parameters from observations of microscopic degrees of freedom. <i>Journal of Applied Physics</i> , 2020, 128, 214103.	2.3	2
946	Flexoelectric Effect Impact on the Hysteretic Dynamics of the Local Electromechanical Response of Mixed Ionic-Electronic Conductors. <i>Ukrainian Journal of Physics</i> , 2017, 62, 326-334.	0.2	2
947	Large mode area double clad ytterbium tapered fiber with circular birefringency. , 2019, , .		2
948	Automatic aortic valve area detection in echocardiography images using convolutional neural networks and U-net architecture for bicuspid aortic valve recognition. , 2021, , .		2
949	Optimizing Cardiac Performance During the Perioperative Period. <i>Current Geriatrics Reports</i> , 2021, 10, 175-181.	1.2	2
950	METHOD FOR INCREASING THE EFFICIENCY OF THE POWER PLANT OF AN UNMANNED AERIAL VEHICLE. , 2022, 26, 48-58.		2
951	Dynamic control of ferroionic states in ferroelectric nanoparticles. <i>Acta Materialia</i> , 2022, 237, 118138.	8.0	2
952	Unsupervised learning of ferroic variants from atomically resolved STEM images. <i>AIP Advances</i> , 2022, 12, .	1.3	2
953	Exploring the Evolution of Metal Halide Perovskites via Latent Representations of the Photoluminescent Spectra. <i>Advanced Intelligent Systems</i> , 2023, 5, .	6.7	2
954	Bending-induced isostructural transitions in ultrathin layers of van der Waals ferroelectrics. <i>Acta Materialia</i> , 2024, 263, 119519.	8.0	2

#	ARTICLE	IF	CITATIONS
955	Perspectives and progress on wurtzite ferroelectrics: Synthesis, characterization, theory, and device applications. <i>Applied Physics Letters</i> , 2024, 124, .	3.2	2
956	Designing workflows for materials characterization. <i>Applied Physics Reviews</i> , 2024, 11, .	11.7	2
957	Chiral symmetry and the goldstone theorem. <i>Lettere Al Nuovo Cimento Rivista Internazionale Della SocietA Italiana Di Fisica</i> , 1970, 3, 354-356.	0.4	1
958	Duplication of Tcra-V gene segments in the rat. <i>Immunogenetics</i> , 1990, 32, 134-7.	2.5	1
959	Local Potential at Atomically Abrupt Oxide Interfaces by Scanning Probe Microscopy. <i>Materials Research Society Symposia Proceedings</i> , 1999, 586, 15.	0.1	1
960	Scanning Impedance Microscopy: From Impedance Spectra to Impedance Images. <i>Microscopy Today</i> , 2002, 10, 22-27.	0.5	1
961	Artifacts and Non-Local Effects in SPM Potential Measurements. <i>Microscopy Today</i> , 2002, 10, 16-21.	0.5	1
962	Local polarization dynamics in chemical solution deposited PZT capacitors by switching spectroscopy PFM. , 2008, , .		1
963	Using Neural Network Algorithms for Compositional Mapping in STEM EELS. <i>Microscopy and Microanalysis</i> , 2009, 15, 450-451.	0.4	1
964	Scanning Microwave Microscopy Studies of Metal-Insulator Transition at Ferroelastic Domain Walls in VO ₂ . <i>Microscopy and Microanalysis</i> , 2010, 16, 460-461.	0.4	1
965	Small and Large Bowel Stenosis and Atresias. , 2011, , 598-602.e1.		1
966	Coalitional stability and efficiency of partitions in matching problems. <i>Theory and Decision</i> , 2011, 71, 395-407.	1.0	1
967	Lattice-Symmetry-Driven Phase Competition in Vanadium Dioxide. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1292, 67.	0.1	1
968	LOCAL PROBES IN THE NEXT DECADE OF ENERGY RESEARCH: BRIDGING MACROSCOPIC AND ATOMIC WORLDS. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , 2013, , 3-35.	0.0	1
969	Preface to Special Topic: Piezoresponse force microscopy and nanoscale phenomena in polar materials. <i>Journal of Applied Physics</i> , 2014, 116, 066701.	2.3	1
970	Local Crystallography: Phases, Symmetries, and Defects from Bottom Up. <i>Microscopy and Microanalysis</i> , 2015, 21, 2203-2204.	0.4	1
971	Bias assisted scanning probe microscopy direct write lithography enables local oxygen enrichment of lanthanum cuprates thin films. <i>Nanotechnology</i> , 2015, 26, 325302.	2.7	1
972	Nanosculpting of complex oxides by massive ionic transfer. <i>Nanotechnology</i> , 2016, 27, 505703.	2.7	1

#	ARTICLE	IF	CITATIONS
973	Impact of Flexoelectric Effect on Electro-mechanics of Moderate Conductors. , 2016, , 265-283.		1
974	Combined Scanning Probe Microscopy and Confocal Raman Spectroscopy for Functional Imaging of the Layered Materials. Microscopy and Microanalysis, 2016, 22, 218-219.	0.4	1
975	G-mode - Full Information Capture Applied to Scanning Probe Microscopy. Microscopy and Microanalysis, 2017, 23, 184-185.	0.4	1
976	A perlustration on out of band emission mitigation techniques in OFDM. , 2017, , .		1
977	Graphene Defect Editing, Deposition, and Growth via E-Beam-Induced Organic Reactions in Aberration Corrected STEM. Microscopy and Microanalysis, 2018, 24, 1994-1995.	0.4	1
978	Experimental Studies of the Efficacy of Transmyocardial Laser Revascularization Using an Erbium Laser. Bio-Medical Engineering, 2018, 52, 224-230.	0.5	1
979	Chinese government fines vaccine company Â£1bn for string of violations. BMJ: British Medical Journal, 2018, 363, k4420.	5.6	1
980	Molecular ecology of the yet uncultured bacterial Ct85-cluster in the mammalian gut. Anaerobe, 2020, 62, 102104.	2.2	1
981	Estimating Preisach Density via Subset Selection. IEEE Access, 2020, 8, 61767-61774.	4.4	1
982	Responsibility to Protect in International Criminal Law. , 2021, , 112-134.		1
983	Thermodynamics of order and randomness in dopant distributions inferred from atomically resolved imaging. Npj Computational Materials, 2021, 7, .	9.1	1
984	Automated Experiment in SPM: Bayesian Optimization for efficient searching of parameter space to maximize functional response. Microscopy and Microanalysis, 2021, 27, 470-471.	0.4	1
985	Automatic detection of crystallographic defects in STEM images by unsupervised learning with translational invariance. Microscopy and Microanalysis, 2021, 27, 1460-1462.	0.4	1
986	Effects of ankle fixation on lower extremities' function in pedaling.. Ningen Kogaku = the Japanese Journal of Ergonomics, 2003, 39, 169-179.	0.1	1
987	Bone stress injuries and fatigue fractures of the pelvis in endurance horses. Equine Veterinary Journal, 2022, 54, 1064-1075.	1.7	1
988	Semiparametric Averaging of Nonlinear Marginal Logistic Regressions and Forecasting for Time Series Classification. Econometrics and Statistics, 2024, 31, 19-37.	0.9	1
989	AUV docking control based on stochastic model predictive control. , 2020, , .		1
990	Building an Integrated Ecosystem of Computational and Observational Facilities to Accelerate Scientific Discovery. Communications in Computer and Information Science, 2022, , 58-75.	0.0	1

#	ARTICLE	IF	CITATIONS
991	The α -amylase and α -glucosidase inhibitory effects of some traditional antidiabetic prescriptions based on bioautography using LC-ESI/MSMS. <i>Journal of Medicinal Plants</i> , 2022, 21, 33-50.	0.9	1
992	Recurrent SARS-CoV-2 Infection and Impaired Immunologic Response in a Pediatric Oncologic Patient While Treated With Radiochemotherapy. <i>Pediatric Infectious Disease Journal</i> , 2022, 41, e259-e262.	2.0	1
993	Musculoskeletal ultrasound may narrow the gap between patients and physicians in the assessment of rheumatoid arthritis disease activity. <i>Rheumatology</i> , 2022, 62, 116-123.	2.1	1
994	Study of multispectral polarization imaging in sea fog environment. <i>Frontiers in Physics</i> , 0, 11, .	2.2	1
995	AKUT α -SKEM α K α -NMEDE S α STEM α K α -MM α œN- α NFLAMASYON ENDEKS α N α N (SIII) TANISAL DE α žERL α L α ž α . <i>Journal of Contemporary Medicine</i> , 2023, 13, 187-192.	0.2	1
996	Ferroelectric Schottky diodes of CuInP2S6 nanosheet. <i>Applied Physics Letters</i> , 2023, 123, .	3.2	1
997	IgM Antibody to Core Antigen of Hepatitis B Virus in Vertical Transmission. <i>Pediatrics International</i> , 1986, 28, 323-330.	0.5	0
998	The cholinergic mechanism of photic stimulation transmission in the suprachiasmatic nucleus in rats. <i>Neuroscience Research Supplement: the Official Journal of the Japan Neuroscience Society</i> , 1991, 16, 23.	0.0	0
999	Dehydration of Fractal Particles of Iron (III) and Aluminum Hydroxides. <i>Materials Research Society Symposia Proceedings</i> , 1995, 407, 405.	0.1	0
1000	Response from Pimentel et al.. <i>BioScience</i> , 1998, 48, 341-341.	4.8	0
1001	Microstructure and Sensing Properties of Cryosol Derived Nanocrystalline Tin Dioxide. <i>Materials Research Society Symposia Proceedings</i> , 1998, 536, 389.	0.1	0
1002	Cryosol Synthesis of Nanocomposite Materials. <i>Materials Research Society Symposia Proceedings</i> , 1998, 547, 499.	0.1	0
1003	ROLE OF DEFECTS IN CARBON NANOTUBE CIRCUITS. <i>International Journal of Nanoscience</i> , 2002, 01, 247-254.	0.8	0
1004	Theory of Scanning Probe Microscopy of Carbon Nanostructures. <i>Materials Research Society Symposia Proceedings</i> , 2004, 838, 79.	0.1	0
1005	Effect of a magnetic field on tunneling conductance in quantum wire/d-wave superconductor junctions. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 3657-3660.	0.8	0
1006	Scanning Probe Microscopy of Piezoelectric and Transport Phenomena in Electroceramic Materials. , 2005, , 199-222.		0
1007	Local Origins of Sensor Activity in 1D Oxide Nanostructures: From Spectromicroscopy to Device. , 0, , .		0
1008	Parameter Optimization for Charge Equilibration Method in Molecular Simulations. <i>AIP Conference Proceedings</i> , 2006, , .	1.0	0

#	ARTICLE	IF	CITATIONS
1009	Nanoelectromechanics of Inorganic and Biological Systems: From Structural Imaging to Local Functionalities. <i>Microscopy Today</i> , 2008, 16, 28-33.	0.5	0
1010	Interfacial Structure in Multiferroic BiFeO ₃ Thin Films. <i>Microscopy and Microanalysis</i> , 2009, 15, 1028-1029.	0.4	0
1011	Observation of Dipole Stripes and Domain Structure by Transmission Electron Microscope for BiFeO ₃ Single Crystals. <i>Ferroelectrics</i> , 2010, 410, 109-117.	0.6	0
1012	Cycles through arcs in multipartite tournaments and a conjecture of Volkmann. <i>Applied Mathematics Letters</i> , 2011, 24, 412-415.	2.9	0
1013	Aktuelle Studien zur Akuttherapie des Schlaganfalls. <i>Aktuelle Neurologie</i> , 2013, 40, 29-36.	0.3	0
1014	Tobacco addiction augments obesity and carcinogenesis: Matter of concern for Indian patients. <i>Journal of Pharmacy and Bioallied Sciences</i> , 2013, 5, 208.	0.6	0
1015	Is there a better way to work-up kidney stones?. <i>Canadian Urological Association Journal</i> , 2013, 2, 123.	0.6	0
1016	Antibiotic resistance in animals: the Government's AMR strategy. <i>The Veterinary Nurse</i> , 2014, 5, 548-548.	0.1	0
1017	Moving atomic-resolution imaging into the age of deep data. <i>Microscopy and Microanalysis</i> , 2015, 21, 1607-1608.	0.4	0
1018	Deep Data Analysis of Atomic Level Structure-Property Relationship in an Iron Superconductor Fe ₁₀₅ Te ₀₇₅ Se ₀₂₅ . <i>Microscopy and Microanalysis</i> , 2015, 21, 2345-2346.	0.4	0
1019	Boycotts. , 0, , 1-2.		0
1020	Deep Data Mining in a Real Space: Application to Scanning Probe Microscopy Studies on a "Parent" State of a High Temperature Superconductor. <i>Microscopy and Microanalysis</i> , 2016, 22, 1418-1419.	0.4	0
1021	Local Crystallography for Quantitative Analysis of Atomically Resolved Images. <i>Microscopy and Microanalysis</i> , 2016, 22, 948-949.	0.4	0
1022	Phase determination from atomically resolved images: physics-constrained deep data analysis through an unmixing approach. <i>Microscopy and Microanalysis</i> , 2016, 22, 1452-1453.	0.4	0
1023	Atomic Level Structure-Property Relationship in a Spin-Orbit Mott insulator: Scanning Transmission Electron and Scanning Tunneling Microscopy Studies. <i>Microscopy and Microanalysis</i> , 2016, 22, 908-909.	0.4	0
1024	Big, deep, and smart data from atomically resolved images: exploring the origins of materials functionality. <i>Microscopy and Microanalysis</i> , 2016, 22, 1416-1417.	0.4	0
1025	High Performance Computing Tools for Cross Correlation of Multi-Dimensional Data Sets Across Instrument Platforms. <i>Microscopy and Microanalysis</i> , 2016, 22, 288-289.	0.4	0
1026	Growth and In Situ Characterization of Oxide Epitaxial Heterostructures with Atomic Plane Precision. <i>Microscopy and Microanalysis</i> , 2016, 22, 1504-1505.	0.4	0

#	ARTICLE	IF	CITATIONS
1027	Thickness dependent band gap of Bi _{2-x} Sb _x Te ₃ (x = 0, 0.05, 0.1) thin films. AIP Conference Proceedings, 2016, , .	1.0	0
1028	Separation of Intercepted Multi-Radar Signals Based on Parameterized Time-Frequency Analysis. Frequenz, 2016, 70, .	1.0	0
1029	Exploring Electro-Chemo-Mechanical Phenomena on the Nanoscale Using Scanning Probe Microscopy. Kluwer International Series in Electronic Materials: Science and Technology, 2017, , 137-160.	0.0	0
1030	Breaking the Time Barrier in Kelvin Probe Force Microscopy: Fast Free Force Reconstruction Using the G-Mode Platform. Microscopy and Microanalysis, 2017, 23, 2080-2081.	0.4	0
1031	Multimodal Chemical and Functional Imaging of Nanoscale Transformations in Ferroelectric Thin Films. Microscopy and Microanalysis, 2017, 23, 1620-1621.	0.4	0
1032	ToF-SIMS Investigations of Tip-Surface Chemical Interactions in Atomic Force Microscopy on a Combined AFM/ToF-SIMS Platform. Microscopy and Microanalysis, 2017, 23, 2082-2083.	0.4	0
1033	G377(P)â€¦How suitable are paediatric ambulatory attendances and what are the parental reasons for attending?. Archives of Disease in Childhood, 2017, , .	2.8	0
1034	A Framework to Learn Physics from Atomically Resolved Images. Microscopy and Microanalysis, 2017, 23, 104-105.	0.4	0
1035	Multimodal Chemical and Functional Imaging of Nanoscale Transformations Away from Equilibrium. Microscopy and Microanalysis, 2018, 24, 1042-1043.	0.4	0
1036	Towards Atomic-Scale Fabrication in Silicon. Microscopy and Microanalysis, 2018, 24, 158-159.	0.4	0
1037	Robust Stabilization for Nonlinear Fuzzy Network Control Systems with Time Varying Delay. , 2018, , .		0
1038	Atom-by-Atom Assembly in Aberration Corrected STEM and the Role of Chemistry at the Surface of Graphene. Microscopy and Microanalysis, 2018, 24, 326-327.	0.4	0
1039	Automated Atom-by-Atom Assembly of Structures in Graphene: The Rise of STEM for Atomic Scale Control. Microscopy and Microanalysis, 2018, 24, 1594-1595.	0.4	0
1040	A STEM-based Path Towards Atomic-scale Silicon-based Devices. Microscopy and Microanalysis, 2019, 25, 2290-2291.	0.4	0
1041	What Was Keck Really About?. , 2019, , 164-175.		0
1042	From Control of the Electron Beam to Control of Single Atoms. Microscopy and Microanalysis, 2019, 25, 1678-1679.	0.4	0
1043	The ORNL Lectures on Scanning Probe Microscopy, Part 1: Piezoresponse Force Microscopy and Spectroscopy of Ferroelectrics, Energy Materials, and Biological Systems. Microscopy Today, 2019, 27, 12-16.	0.5	0
1044	The ORNL Lectures on Scanning Probe Microscopy, Part 2: The Force Dimension: Electronic and Ionic Transport Measurements via Kelvin Probe Force Microscopy. Microscopy Today, 2019, 27, 18-23.	0.5	0

#	ARTICLE	IF	CITATIONS
1045	Unsupervised Machine Learning to Distill Structural-Property Insights from 4D-STEM. <i>Microscopy and Microanalysis</i> , 2019, 25, 12-13.	0.4	0
1046	Towards Atomic Scale Quantum Structure Fabrication in 2D Materials. <i>Microscopy and Microanalysis</i> , 2019, 25, 940-941.	0.4	0
1047	Letter to the Editor: Patients With Inflammatory Bowel Disease Demonstrate an Inherent Lack of Psychopathology. <i>Inflammatory Bowel Diseases</i> , 2019, 25, e114-e114.	1.9	0
1048	Vorwort. , 2019, , 7-12.		0
1049	Operando Imaging of Ion Migration in Metal Halide Perovskites. <i>Microscopy and Microanalysis</i> , 2020, 26, 2046-2048.	0.4	0
1050	Accurately Imaging, Tracking and Moving Single Atoms. <i>Microscopy and Microanalysis</i> , 2020, 26, 2556-2557.	0.4	0
1051	Hating Adolescents Test (HAT): a preliminary development of a measure to assess hating among adolescents. <i>Psychiatry, Psychology and Law</i> , 2020, 27, 234-245.	1.3	0
1052	Comparative thermal analysis of an EG-based nanofluid containing DWCNTs. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	0
1053	Coordination pattern and variability in a flexion movement control test used in clinical assessment. <i>Studies in Health Technology and Informatics</i> , 2021, 280, 272-273.	0.0	0
1054	Electron beam modification of plasmonic responses of nanoparticles. <i>Microscopy and Microanalysis</i> , 2021, 27, 3066-3068.	0.4	0
1055	Atomic-scale Feedback-controlled Electron Beam Fabrication of 2D Materials. <i>Microscopy and Microanalysis</i> , 2021, 27, 3072-3073.	0.4	0
1056	Direct mapping of polarization fields from STEM images: A Deep Learning based exploration of ferroelectrics. <i>Microscopy and Microanalysis</i> , 2021, 27, 2990-2992.	0.4	0
1057	Electron Beam Control of Dopants in 2D and 3D Materials. <i>Microscopy and Microanalysis</i> , 2021, 27, 2150-2153.	0.4	0
1058	An effective applying of the sorting method to sensory evaluation. <i>Ningen Kogaku = the Japanese Journal of Ergonomics</i> , 2003, 39, 101-110.	0.1	0
1059	Evaluation of Oxygen-diffusion and Polarization in Air Electrodes with Oxide Catalysts. <i>ECS Meeting Abstracts</i> , 2008, , .	0.0	0
1060	THE DETERMINATION OF THE OPTIMUM GEOMETRY OF ENGAGEMENT BY MEANS OF INTERMEDIATE ROLLI. <i>Vestnik Belorussko-Rossijskogo Universiteta</i> , 2012, , 53-63.	0.0	0
1061	Surface micropatterning with calcium phosphate ceramics by micromoulding in capillaries. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 4, .	4.2	0
1062	Dioxide Plutonium-239 in the Lung. Report 3: Different Effect of Vitamins A, C and β -carotene on the Long-term Consequences of Incorporation. <i>Medical Radiology and Radiation Safety</i> , 2018, 63, 5-14.	0.1	0

#	ARTICLE	IF	CITATIONS
1063	Evaluation of leptin levels in the serum and gingival crevicular fluid of chronic periodontitis patients. Egyptian Dental Journal, 2018, 64, 2155-2159.	0.1	0
1064	Influences From Europe: The Rise of "Organic" Baby Formula Use in NYC Private Practices. American Journal of Gastroenterology, 2018, 113, S601.	0.4	0
1065	Adaptation of the Russian Food Market to the Contemporary Geopolitical Challenges. , 2019, , 87-114.		0
1066	Chapter 1. The Twin Problems of Governing Security. , 2020, , 1-18.		0
1067	Mesoscopic theory of defect ordering"disordering transitions in thin oxide films. Scientific Reports, 2020, 10, 22377.	3.4	0
1068	Bayesian Microscopy: Model Selection for Extracting Weak Nonlinearities from Scanning Probe Microscopy Data. Microscopy and Microanalysis, 2020, 26, 2126-2127.	0.4	0
1069	Size Effect of Local Current-Voltage Characteristics of MX_2 Nanoflakes: Local Density of States Reconstruction from Scanning Tunneling Microscopy Experiments. Physical Review Applied, 2022, 17, .	3.8	0
1070	Strain-Induced asymmetry and on-site dynamics of silicon defects in graphene. Carbon Trends, 2022, 9, 100189.	3.1	0
1071	Perancangan Meja Las yang Ergonomis berdasarkan Analysis REBA di Universitas Sebelas Maret. Jurnal Ilmiah Pendidikan Teknik Dan Kejuruan, 2022, 15, 70.	0.1	0
1072	Pengaruh Interpersonal Trust dan Intimate Friendship Terhadap Self-Disclosure Generasi Z Pengguna Twitter. Journal of Social and Industrial Psychology, 2022, 11, 44-52.	0.0	0
1073	The effects of endoscope placement in the hypopharynx on swallowing-related measures in healthy adults. European Archives of Oto-Rhino-Laryngology, 0, , .	1.8	0
1074	Finding simplicity: unsupervised discovery of features, patterns, and order parameters via shift-invariant variational autoencoders * . Machine Learning: Science and Technology, 2023, 4, 045033.	5.2	0
1075	INDEX. , 2001, , 349-372.		0
1076	The strain-induced transitions of the piezoelectric, pyroelectric, and electrocaloric properties of the $CuInP2S6$ films. AIP Advances, 2023, 13, .	1.3	0
1077	Gastrointestinal parasite infections in Nepalese Gurkha recruits arriving in the United Kingdom from 2012"2020. PLoS Neglected Tropical Diseases, 2024, 18, e0011931.	2.4	0
1078	Dynamic Facial Expression Recognition Based on Vision Transformer with Deformable Module. , 2023, , .		0
1079	New in-sights into the engineering of reactive oxygen species with boosting photothermal catalytic selectivity for dihydroxyacetone by synergistic Cu/Ce bimetallic active center over $BiVO_4$. Molecular Catalysis, 2024, 555, 113871.	2.1	0
1080	Discovering invariant spatial features in electron energy loss spectroscopy images on the mesoscopic and atomic levels. Journal of Applied Physics, 2024, 135, .	2.3	0

#	ARTICLE	IF	CITATIONS
1081	Unraveling the impact of initial choices and in-loop interventions on learning dynamics in autonomous scanning probe microscopy. <i>Journal of Applied Physics</i> , 2024, 135, .	2.3	0
1082	Phase diagrams and polarization reversal in nanosized Hf _x Zr _{1-x} O ₂ . <i>AIP Advances</i> , 2024, 14, .	1.3	0
1083	Generation of polygonal non-diffracting beams via angular spectral phases. <i>Optics Express</i> , 2024, 32, 23458.	3.4	0
1084	Direct Fabrication of Atomically Defined Pores in MXenes Using Feedback-Driven STEM. <i>Small Methods</i> , 0, , .	9.6	0
1085	ApresentaÃ§Ã£o â€œ A educaÃ§Ã£o Ã© um territÃ³rio de responsabilidades. <i>ReflexÃ£o & AÃ§Ã£o</i> , 0, , 1-5.	0.1	0
1086	Nanoscale core-shell structure and recrystallization of swift heavy ion tracks in SrTiO ₃ . <i>Nanoscale</i> , 0, , .	5.8	0
1087	Bromine Incorporation Affects Phase Transformations and Thermal Stability of Lead Halide Perovskites. <i>Journal of the American Chemical Society</i> , 2024, 146, 18576-18585.	14.6	0
1088	Postoperative anaemia increases unplanned readmission: an international prospective cohort study of patients undergoing major abdominal surgery. <i>British Journal of Surgery</i> , 2024, 111, .	0.3	0
1089	Co-orchestration of multiple instruments to uncover structure-property relationships in combinatorial libraries. <i>Digital Discovery</i> , 0, , .	5.7	0
1090	Dynamic STEM-EELS for single-atom and defect measurement during electron beam transformations. <i>Science Advances</i> , 2024, 10, .	10.9	0
1091	Query-Efficient Textual Adversarial Example Generation for Black-Box Attacks. , 2024, , .		0
1092	Physical discovery in representation learning via conditioning on prior knowledge. <i>Journal of Applied Physics</i> , 2024, 136, .	2.3	0
1093	Physics and chemistry from parsimonious representations: image analysis via invariant variational autoencoders. <i>Npj Computational Materials</i> , 2024, 10, .	9.1	0
1094	Bayesian Conavigation: Dynamic Designing of the Material Digital Twins via Active Learning. <i>ACS Nano</i> , 0, , .	15.3	0
1095	Evolution of Ferroelectric Properties in Sm _x Bi _{1-x} FeO ₃ via Automated Piezoresponse Force Microscopy across combinatorial spread libraries. <i>ACS Nano</i> , 0, , .	15.3	0
1096	Integration of scanning probe microscope with high-performance computing: Fixed-policy and reward-driven workflows implementation. <i>Review of Scientific Instruments</i> , 2024, 95, .	1.4	0
1097	Ferri-ionic coupling in Cu ₂ P ₂ S ₆ nanoflakes: Polarization states and controllable negative capacitance. <i>Physical Review Applied</i> , 2024, .	3.8	0
1098	Realizing smart scanning transmission electron microscopy using high performance computing. <i>Review of Scientific Instruments</i> , 2024, 95, .	1.4	0

#	ARTICLE	IF	CITATIONS
1099	Setting standards for data driven materials science. Npj Computational Materials, 2024, 10, .	9.1	0