

# Brian J Rodriguez

## List of Publications by Citations

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

211 papers	7,880 citations	49 h-index	81 g-index
224 ext. papers	8,608 ext. citations	5.6 avg, IF	5.81 L-index

#	Paper	IF	Citations
211	The band excitation method in scanning probe microscopy for rapid mapping of energy dissipation on the nanoscale. <i>Nanotechnology</i> , <b>2007</b> , 18, 435503	3.4	383
210	Dual-frequency resonance-tracking atomic force microscopy. <i>Nanotechnology</i> , <b>2007</b> , 18, 475504	3.4	365
209	Local polarization dynamics in ferroelectric materials. <i>Reports on Progress in Physics</i> , <b>2010</b> , 73, 056502	14.4	341
208	Direct imaging of the spatial and energy distribution of nucleation centres in ferroelectric materials. <i>Nature Materials</i> , <b>2008</b> , 7, 209-15	27	235
207	Vector piezoresponse force microscopy. <i>Microscopy and Microanalysis</i> , <b>2006</b> , 12, 206-20	0.5	204
206	Mechanical stress effect on imprint behavior of integrated ferroelectric capacitors. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 728-730	3.4	202
205	Direct studies of domain switching dynamics in thin film ferroelectric capacitors. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 082902	3.4	190
204	Domain growth kinetics in lithium niobate single crystals studied by piezoresponse force microscopy. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 012906	3.4	183
203	Nanoscale Electromechanics of Ferroelectric and Biological Systems: A New Dimension in Scanning Probe Microscopy. <i>Annual Review of Materials Research</i> , <b>2007</b> , 37, 189-238	12.8	179
202	Vortex polarization states in nanoscale ferroelectric arrays. <i>Nano Letters</i> , <b>2009</b> , 9, 1127-31	11.5	175
201	Ferroelastic Fingerprints in Methylammonium Lead Iodide Perovskite. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 5724-5731	3.8	118
200	The transition from linear to highly branched poly(β-amino ester)s: Branching matters for gene delivery. <i>Science Advances</i> , <b>2016</b> , 2, e1600102	14.3	117
199	Macromolecular crowding meets tissue engineering by self-assembly: a paradigm shift in regenerative medicine. <i>Advanced Materials</i> , <b>2014</b> , 26, 3024-34	24	114
198	A microelectromechanical load sensor for in situ electron and x-ray microscopy tensile testing of nanostructures. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 013506	3.4	109
197	Polarization-dependent electron affinity of LiNbO <sub>3</sub> surfaces. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 2316-2318	3.4	103
196	Surface Domain Structures and Mesoscopic Phase Transition in Relaxor Ferroelectrics. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 1977-1987	15.6	102
195	Fabrication of metallic nanowires on a ferroelectric template via photochemical reaction. <i>Nanotechnology</i> , <b>2006</b> , 17, 4946-4949	3.4	92

194	Electromechanical imaging of biological systems with sub-10nm resolution. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 053901	3.4	89
193	Microstructure and properties of well-ordered multiferroic Pb(Zr,Ti)O(3)/CoFe(2)O(4) nanocomposites. <i>ACS Nano</i> , <b>2010</b> , 4, 1099-107	16.7	83
192	Dynamics of ferroelectric domain growth in the field of atomic force microscope. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 104102	2.5	82
191	Nanoscale observation of photoinduced domain pinning and investigation of imprint behavior in ferroelectric thin films. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 2734-2739	2.5	82
190	Nanoscale polarization manipulation and imaging of ferroelectric Langmuir-Blodgett polymer films. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 122904	3.4	78
189	Three-dimensional high-resolution reconstruction of polarization in ferroelectric capacitors by piezoresponse force microscopy. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 1958-1962	2.5	78
188	In situ cleaning and characterization of oxygen- and zinc-terminated, n-type, ZnO{0001} surfaces. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 5856-5864	2.5	77
187	Probing the role of single defects on the thermodynamics of electric-field induced phase transitions. <i>Physical Review Letters</i> , <b>2008</b> , 100, 155703	7.4	76
186	Piezoresponse force microscopy for polarity imaging of GaN. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 4166-4168	3.4	75
185	Applications of piezoresponse force microscopy in materials research: from inorganic ferroelectrics to biopiezoelectrics and beyond. <i>International Materials Reviews</i> , <b>2016</b> , 61, 46-70	16.1	74
184	High resolution electromechanical imaging of ferroelectric materials in a liquid environment by piezoresponse force microscopy. <i>Physical Review Letters</i> , <b>2006</b> , 96, 237602	7.4	74
183	Probing charge screening dynamics and electrochemical processes at the solid-liquid interface with electrochemical force microscopy. <i>Nature Communications</i> , <b>2014</b> , 5, 3871	17.4	73
182	Macromolecularly crowded in vitro microenvironments accelerate the production of extracellular matrix-rich supramolecular assemblies. <i>Scientific Reports</i> , <b>2015</b> , 5, 8729	4.9	72
181	Direct evidence of mesoscopic dynamic heterogeneities at the surfaces of ergodic ferroelectric relaxors. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	71
180	Piezoresponse force spectroscopy of ferroelectric-semiconductor materials. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 114108	2.5	69
179	Ordered Ferroelectric Lead Titanate Nanocellular Structure by Conversion of Anodic TiO <sub>2</sub> Nanotubes. <i>Advanced Materials</i> , <b>2009</b> , 21, 3121-3125	24	68
178	Spatial resolution, information limit, and contrast transfer in piezoresponse force microscopy. <i>Nanotechnology</i> , <b>2006</b> , 17, 3400-11	3.4	67
177	Intrinsic single-domain switching in ferroelectric materials on a nearly ideal surface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 20204-9	11.5	67

176	Bioelectromechanical imaging by scanning probe microscopy: Galvani's experiment at the nanoscale. <i>Ultramicroscopy</i> , <b>2006</b> , 106, 334-40	3.1	62
175	Spatial inhomogeneity of imprint and switching behavior in ferroelectric capacitors. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 3071-3073	3.4	62
174	Nano-textured self-assembled aligned collagen hydrogels promote directional neurite guidance and overcome inhibition by myelin associated glycoprotein. <i>Soft Matter</i> , <b>2011</b> , 7, 2770	3.6	60
173	Unraveling Deterministic Mesoscopic Polarization Switching Mechanisms: Spatially Resolved Studies of a Tilt Grain Boundary in Bismuth Ferrite. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 2053-2063	15.6	58
172	Resolution theory, and static and frequency-dependent cross-talk in piezoresponse force microscopy. <i>Nanotechnology</i> , <b>2010</b> , 21, 405703	3.4	57
171	Ferroelectric domain wall pinning at a bicrystal grain boundary in bismuth ferrite. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 142901	3.4	57
170	Nanoelectromechanics of polarization switching in piezoresponse force microscopy. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 074305	2.5	56
169	Eco-friendly preparation of electrically conductive chitosan - reduced graphene oxide flexible bionanocomposites for food packaging and biological applications. <i>Composites Science and Technology</i> , <b>2019</b> , 173, 53-60	8.6	54
168	Open loop Kelvin probe force microscopy with single and multi-frequency excitation. <i>Nanotechnology</i> , <b>2013</b> , 24, 475702	3.4	53
167	Defect-mediated polarization switching in ferroelectrics and related materials: from mesoscopic mechanisms to atomistic control. <i>Advanced Materials</i> , <b>2010</b> , 22, 314-22	24	52
166	Imaging mechanism of piezoresponse force microscopy in capacitor structures. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 152906	3.4	52
165	Photoreduction of SERS-active metallic nanostructures on chemically patterned ferroelectric crystals. <i>ACS Nano</i> , <b>2012</b> , 6, 7373-80	16.7	50
164	Spatially Resolved Mapping of Polarization Switching Behavior in Nanoscale Ferroelectrics. <i>Advanced Materials</i> , <b>2008</b> , 20, 109-114	24	50
163	Electromechanical imaging of biomaterials by scanning probe microscopy. <i>Journal of Structural Biology</i> , <b>2006</b> , 153, 151-9	3.4	49
162	Spatially resolved mapping of ferroelectric switching behavior in self-assembled multiferroic nanostructures: strain, size, and interface effects. <i>Nanotechnology</i> , <b>2007</b> , 18, 405701	3.4	48
161	Local bias-induced phase transitions. <i>Materials Today</i> , <b>2008</b> , 11, 16-27	21.8	46
160	AlN bulk crystals grown on SiC seeds. <i>Journal of Crystal Growth</i> , <b>2005</b> , 281, 68-74	1.6	46
159	Towards nanoscale electrical measurements in liquid by advanced KPFM techniques: a review. <i>Reports on Progress in Physics</i> , <b>2018</b> , 81, 086101	14.4	45

158	Plasmon Enhanced Raman from Ag Nanopatterns Made Using Periodically Poled Lithium Niobate and Periodically Proton Exchanged Template Methods. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 26543-26550	3.8	45
157	Nanoscale Piezoelectric Properties of Self-Assembled Fmoc-FF Peptide Fibrous Networks. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 12702-7	9.5	44
156	Accelerated Development of Supramolecular Corneal Stromal-Like Assemblies from Corneal Fibroblasts in the Presence of Macromolecular Crowders. <i>Tissue Engineering - Part C: Methods</i> , <b>2015</b> , 21, 660-70	2.9	44
155	Piezoresponse force microscopy for piezoelectric measurements of III-nitride materials. <i>Journal of Crystal Growth</i> , <b>2002</b> , 246, 252-258	1.6	44
154	Spatial variation of ferroelectric properties in Pb(Zr <sub>0.3</sub> , Ti <sub>0.7</sub> )O <sub>3</sub> thin films studied by atomic force microscopy. <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 8031-8034	2.5	44
153	Real space mapping of polarization dynamics and hysteresis loop formation in relaxor-ferroelectric PbMg <sub>1/3</sub> Nb <sub>2/3</sub> O <sub>3</sub> /PbTiO <sub>3</sub> solid solutions. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 042006	2.5	43
152	Controlling polarization dynamics in a liquid environment: from localized to macroscopic switching in ferroelectrics. <i>Physical Review Letters</i> , <b>2007</b> , 98, 247603	7.4	43
151	Dual harmonic Kelvin probe force microscopy at the graphene-liquid interface. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 133103	3.4	42
150	Biocompatibility of ferroelectric lithium niobate and the influence of polarization charge on osteoblast proliferation and function. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2015</b> , 103, 2540-8	5.4	42
149	Compositional disorder, polar nanoregions and dipole dynamics in Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -based relaxor ferroelectrics. <i>Zeitschrift für Kristallographie</i> , <b>2011</b> , 226, 99-107		42
148	Atomic force microscopy-based experimental setup for studying domain switching dynamics in ferroelectric capacitors. <i>Review of Scientific Instruments</i> , <b>2005</b> , 76, 023708	1.7	42
147	Piezoelectric Tensor of Collagen Fibrils Determined at the Nanoscale. <i>ACS Biomaterials Science and Engineering</i> , <b>2017</b> , 3, 929-935	5.5	42
146	Scanning probe investigation of surface charge and surface potential of GaN-based heterostructures. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 112115	3.4	40
145	Photoelectron emission microscopy observation of inversion domain boundaries of GaN-based lateral polarity heterostructures. <i>Journal of Applied Physics</i> , <b>2003</b> , 94, 5720-5725	2.5	36
144	Locally Controlled Cu-Ion Transport in Layered Ferroelectric CuInPS. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 27188-27194	9.5	35
143	Electromechanical properties of dried tendon and isoelectrically focused collagen hydrogels. <i>Acta Biomaterialia</i> , <b>2012</b> , 8, 3073-9	10.8	35
142	Peritubular dentin lacks piezoelectricity. <i>Journal of Dental Research</i> , <b>2007</b> , 86, 908-11	8.1	35
141	High-resolution imaging of proteins in human teeth by scanning probe microscopy. <i>Biochemical and Biophysical Research Communications</i> , <b>2007</b> , 352, 142-6	3.4	34

140	Micro-Raman study of electronic properties of inversion domains in GaN-based lateral polarity heterostructures. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 9542-9547	2.5	34
139	Intramolecular Cyclization Dominating Homopolymerization of Multivinyl Monomers toward Single-Chain Cyclized/Knotted Polymeric Nanoparticles. <i>Macromolecules</i> , <b>2015</b> , 48, 6882-6889	5.5	33
138	Multifrequency spectrum analysis using fully digital G Mode-Kelvin probe force microscopy. <i>Nanotechnology</i> , <b>2016</b> , 27, 105706	3.4	33
137	Integration of TiO <sub>2</sub> into the diatom <i>Thalassiosira weissflogii</i> during frustule synthesis. <i>Scientific Reports</i> , <b>2013</b> , 3, 3205	4.9	33
136	Spatial distribution of relaxation behavior on the surface of a ferroelectric relaxor in the ergodic phase. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 142902	3.4	33
135	Towards local electromechanical probing of cellular and biomolecular systems in a liquid environment. <i>Nanotechnology</i> , <b>2007</b> , 18, 424020	3.4	33
134	Conformational dynamics and aggregation behavior of piezoelectric diphenylalanine peptides in an external electric field. <i>Biophysical Chemistry</i> , <b>2015</b> , 196, 16-24	3.5	32
133	A protective extracellular matrix-based gene delivery reservoir fabricated by electrostatic charge manipulation. <i>Molecular Pharmaceutics</i> , <b>2012</b> , 9, 3099-106	5.6	32
132	Double-layer mediated electromechanical response of amyloid fibrils in liquid environment. <i>ACS Nano</i> , <b>2010</b> , 4, 689-98	16.7	32
131	Simultaneous elastic and electromechanical imaging by scanning probe microscopy: Theory and applications to ferroelectric and biological materials. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2005</b> , 23, 2102		32
130	Local polarization switching in the presence of surface-charged defects: Microscopic mechanisms and piezoresponse force spectroscopy observations. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	31
129	Surface enhanced luminescence and Raman scattering from ferroelectrically defined Ag nanopatterned arrays. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 083105	3.4	30
128	Photo-induced surface-enhanced Raman spectroscopy from a diphenylalanine peptide nanotube-metal nanoparticle template. <i>Scientific Reports</i> , <b>2018</b> , 8, 3880	4.9	29
127	Piezoelectric properties of aligned collagen membranes. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2014</b> , 102, 284-92	3.5	29
126	Quantitative determination of tip parameters in piezoresponse force microscopy. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 212905	3.4	29
125	Kelvin probe force microscopy in liquid using electrochemical force microscopy. <i>Beilstein Journal of Nanotechnology</i> , <b>2015</b> , 6, 201-14	3	28
124	Wettability gradient-induced alignment of peptide nanotubes as templates for biosensing applications. <i>RSC Advances</i> , <b>2016</b> , 6, 41809-41815	3.7	28
123	Functionalization of the living diatom <i>Thalassiosira weissflogii</i> with thiol moieties. <i>Nature Communications</i> , <b>2013</b> , 4, 2683	17.4	27

122	Mapping bias-induced phase stability and random fields in relaxor ferroelectrics. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 092904	3.4	27
121	Intermittent contact mode piezoresponse force microscopy in a liquid environment. <i>Nanotechnology</i> , <b>2009</b> , 20, 195701	3.4	27
120	Electric Field-Induced Chemical Surface-Enhanced Raman Spectroscopy Enhancement from Aligned Peptide Nanotube-Graphene Oxide Templates for Universal Trace Detection of Biomolecules. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 1878-1887	6.4	26
119	Visualizing molecular polar order in tissues via electromechanical coupling. <i>Journal of Structural Biology</i> , <b>2012</b> , 180, 409-19	3.4	25
118	Photo electron emission microscopy of polarity-patterned materials. <i>Journal of Physics Condensed Matter</i> , <b>2005</b> , 17, S1415-S1426	1.8	25
117	Giant negative electrostriction and dielectric tunability in a van der Waals layered ferroelectric. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	25
116	Atomic and Close-to-Atomic Scale Manufacturing: A Review on Atomic Layer Removal Methods Using Atomic Force Microscopy. <i>Nanomanufacturing and Metrology</i> , <b>2020</b> , 3, 167-186	3.4	24
115	Nanomechanics of Cells and Biomaterials Studied by Atomic Force Microscopy. <i>Advanced Healthcare Materials</i> , <b>2015</b> , 4, 2456-74	10.1	24
114	Enhanced photocatalysis and biomolecular sensing with field-activated nanotube-nanoparticle templates. <i>Nature Communications</i> , <b>2019</b> , 10, 2496	17.4	23
113	Quantitative 3D-KPFM imaging with simultaneous electrostatic force and force gradient detection. <i>Nanotechnology</i> , <b>2015</b> , 26, 175707	3.4	23
112	Fabrication, dynamics, and electrical properties of insulated scanning probe microscopy probes for electrical and electromechanical imaging in liquids. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 093130	3.4	23
111	High frequency piezoresponse force microscopy in the 1-10MHz regime. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 232904	3.4	23
110	Local probing of relaxation time distributions in ferroelectric polymer nanomesas: Time-resolved piezoresponse force spectroscopy and spectroscopic imaging. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 232903	3.4	22
109	Investigation of the mechanism of polarization switching in ferroelectric capacitors by three-dimensional piezoresponse force microscopy. <i>Applied Physics A: Materials Science and Processing</i> , <b>2005</b> , 80, 99-103	2.6	22
108	Probing intrinsic polarization properties in bismuth-layered ferroelectric films. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 112914	3.4	20
107	Temporal changes guided by mesenchymal stem cells on a 3D microgel platform enhance angiogenesis in vivo at a low-cell dose. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 19033-19044	11.5	19
106	Individual switching of film-based nanoscale epitaxial ferroelectric capacitors. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 042005	2.5	18
105	Biocompatible chitosan-based composites with properties suitable for hyperthermia therapy. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 1256-1265	7.3	18



104	Charge and topography patterned lithium niobate provides physical cues to fluidically isolated cortical axons. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 053702	3.4	17
103	The role of nanoporosity on the local piezo and ferroelectric properties of lead titanate thin films. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 1035-1043	7.1	17
102	Aligned diphenylalanine nanotube-silver nanoparticle templates for high-sensitivity surface-enhanced Raman scattering. <i>Journal of Raman Spectroscopy</i> , <b>2017</b> , 48, 1799-1807	2.3	17
101	Structural, magnetic, and electric properties of La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> /PbZr <sub>x</sub> Ti <sub>1-x</sub> O <sub>3</sub> heterostructures. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 063908	2.5	17
100	Piezoelectric response of nanoscale PbTiO <sub>3</sub> in composite PbTiO <sub>3</sub> /CoFe <sub>2</sub> O <sub>4</sub> epitaxial films. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 074101	3.4	17
99	Recent Advances in Electromechanical Imaging on the Nanometer Scale: Polarization Dynamics in Ferroelectrics, Biopolymers, and Liquid Imaging. <i>Japanese Journal of Applied Physics</i> , <b>2007</b> , 46, 5674-5685	1.4	17
98	Thickness, humidity, and polarization dependent ferroelectric switching and conductivity in Mg doped lithium niobate. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 244103	2.5	16
97	Nano-structured polymer-silica composite derived from a marine diatom via deactivation enhanced atom transfer radical polymerization grafting. <i>Small</i> , <b>2014</b> , 10, 469-73	11	16
96	Piezoelectricity in collagen type II fibrils measured by scanning probe microscopy. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 066818	2.5	15
95	Band excitation Kelvin probe force microscopy utilizing photothermal excitation. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 104102	3.4	14
94	Liquid-phase 3D bioprinting of gelatin alginate hydrogels: influence of printing parameters on hydrogel line width and layer height. <i>Bio-Design and Manufacturing</i> , <b>2019</b> , 2, 172-180	4.7	14
93	Thermal and aqueous stability improvement of graphene oxide enhanced diphenylalanine nanocomposites. <i>Science and Technology of Advanced Materials</i> , <b>2017</b> , 18, 172-179	7.1	13
92	Tip-induced domain structures and polarization switching in ferroelectric amino acid glycine. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 072008	2.5	13
91	Surface Chemistry Controls Anomalous Ferroelectric Behavior in Lithium Niobate. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 29153-29160	9.5	13
90	Sub-Toxic Concentrations of Ionic Liquids Enhance Cell Migration by Reducing the Elasticity of the Cellular Lipid Membrane. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 7327-7333	6.4	13
89	3D-Printed Peptide-Hydrogel Nanoparticle Composites for Surface-Enhanced Raman Spectroscopy Sensing. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 5029-5034	5.6	12
88	Breaking the limits of structural and mechanical imaging of the heterogeneous structure of coal macerals. <i>Nanotechnology</i> , <b>2014</b> , 25, 435402	3.4	12
87	Photoreduction of metal nanostructures on periodically proton exchanged MgO-doped lithium niobate crystals. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 182904	3.4	12



86	Electromechanical Behavior in Biological Systems at the Nanoscale <b>2007</b> , 615-633		12
85	Tunable Wettability of Ferroelectric Lithium Niobate Surfaces: The Role of Engineered Microstructure and Tailored Metallic Nanostructures. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 6643-6649	3.8	11
84	Templated microwave synthesis of luminescent carbon nanofibers.. <i>RSC Advances</i> , <b>2018</b> , 8, 12907-12917	3.7	11
83	Photoinduced Enhanced Raman from Lithium Niobate on Insulator Template. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 30871-30878	9.5	11
82	Impact of high interface density on ferroelectric and structural properties of PbZr <sub>0.2</sub> Ti <sub>0.8</sub> O <sub>3</sub> /PbZr <sub>0.4</sub> Ti <sub>0.6</sub> O <sub>3</sub> epitaxial multilayers. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 085305	3	11
81	Bubble polarization domain patterns in periodically ordered epitaxial ferroelectric nanodot arrays. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 052006	2.5	10
80	Biocompatible Gold Nanoparticle Arrays Photodeposited on Periodically Proton Exchanged Lithium Niobate. <i>ACS Biomaterials Science and Engineering</i> , <b>2016</b> , 2, 1351-1356	5.5	10
79	Investigation of AFM-based machining of ferroelectric thin films at the nanoscale. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 034103	2.5	9
78	Interface and thickness dependent domain switching and stability in Mg doped lithium niobate. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 224101	2.5	9
77	Dual harmonic Kelvin probe force microscopy for surface potential measurements of ferroelectrics <b>2012</b> ,		9
76	Growth mechanism of photoreduced silver nanostructures on periodically proton exchanged lithium niobate: Time and concentration dependence. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 187212	2.5	9
75	Direct shape control of photoreduced nanostructures on proton exchanged ferroelectric templates. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 042908	3.4	9
74	Direct measurement of periodic electric forces in liquids. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 014306	2.5	9
73	Influence of annealing on the photodeposition of silver on periodically poled lithium niobate. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 054102	2.5	9
72	Material- and feature-dependent effects on cell adhesion to micro injection moulded medical polymers. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2016</b> , 145, 46-54	6	9
71	Bacteria-Resistant Single Chain Cyclized/Knotted Polymer Coatings. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 10616-10620	16.4	8
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