

# Alexander Tselev

## List of Publications by Citations

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131  
papers

4,071  
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35  
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59  
g-index

142  
ext. papers

4,477  
ext. citations

7.3  
avg, IF

5.12  
L-index

#	Paper	IF	Citations
131	Selective growth of well-aligned semiconducting single-walled carbon nanotubes. <i>Nano Letters</i> , <b>2009</b> , 9, 800-5	11.5	382
130	Real space mapping of Li-ion transport in amorphous Si anodes with nanometer resolution. <i>Nano Letters</i> , <b>2010</b> , 10, 3420-5	11.5	215
129	Differentiating Ferroelectric and Nonferroelectric Electromechanical Effects with Scanning Probe Microscopy. <i>ACS Nano</i> , <b>2015</b> , 9, 6484-92	16.7	191
128	Mechanism of NO <sub>2</sub> detection in carbon nanotube field effect transistor chemical sensors. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 123112	3.4	135
127	Symmetry relationship and strain-induced transitions between insulating M1 and M2 and metallic R phases of vanadium dioxide. <i>Nano Letters</i> , <b>2010</b> , 10, 4409-16	11.5	125
126	Doping-based stabilization of the M2 phase in free-standing VO <sub>2</sub> nanostructures at room temperature. <i>Nano Letters</i> , <b>2012</b> , 12, 6198-205	11.5	120
125	Evidence for power-law frequency dependence of intrinsic dielectric response in the CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> . <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	103
124	The role of electrochemical phenomena in scanning probe microscopy of ferroelectric thin films. <i>ACS Nano</i> , <b>2011</b> , 5, 5683-91	16.7	101
123	Nanoscale Ferroelectricity in Crystalline Glycine. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 2996-3003	15.6	94
122	Interplay of octahedral tilts and polar order in BiFeO <sub>3</sub> films. <i>Advanced Materials</i> , <b>2013</b> , 25, 2497-504	24	94
121	Interplay between ferroelastic and metal-insulator phase transitions in strained quasi-two-dimensional VO <sub>2</sub> nanoplatelets. <i>Nano Letters</i> , <b>2010</b> , 10, 2003-11	11.5	91
120	Quantification of surface displacements and electromechanical phenomena via dynamic atomic force microscopy. <i>Nanotechnology</i> , <b>2016</b> , 27, 425707	3.4	80
119	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
118	Li-ion dynamics and reactivity on the nanoscale. <i>Materials Today</i> , <b>2011</b> , 14, 548-558	21.8	68
117	Nonlinear phenomena in multiferroic nanocapacitors: joule heating and electromechanical effects. <i>ACS Nano</i> , <b>2011</b> , 5, 9104-12	16.7	65
116	Big data and deep data in scanning and electron microscopies: deriving functionality from multidimensional data sets. <i>Advanced Structural and Chemical Imaging</i> , <b>2015</b> , 1, 6	3.9	63
115	Mesoscopic metal-insulator transition at ferroelastic domain walls in VO <sub>2</sub> . <i>ACS Nano</i> , <b>2010</b> , 4, 4412-9	16.7	63

114	Microwave a.c. conductivity of domain walls in ferroelectric thin films. <i>Nature Communications</i> , <b>2016</b> , 7, 11630	17.4	63
113	Direct mapping of ionic transport in a Si anode on the nanoscale: time domain electrochemical strain spectroscopy study. <i>ACS Nano</i> , <b>2011</b> , 5, 9682-95	16.7	59
112	Dimensionality Controlled Octahedral Symmetry-Mismatch and Functionalities in Epitaxial LaCoO <sub>3</sub> /SrTiO <sub>3</sub> Heterostructures. <i>Nano Letters</i> , <b>2015</b> , 15, 4677-84	11.5	58
111	Tracking ion intercalation into layered Ti <sub>3</sub> C <sub>2</sub> MXene films across length scales. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 2549-2558	35.4	54
110	Open loop Kelvin probe force microscopy with single and multi-frequency excitation. <i>Nanotechnology</i> , <b>2013</b> , 24, 475702	3.4	53
109	Atomic-Level Sculpting of Crystalline Oxides: Toward Bulk Nanofabrication with Single Atomic Plane Precision. <i>Small</i> , <b>2015</b> , 11, 5895-900	11	53
108	Current and surface charge modified hysteresis loops in ferroelectric thin films. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 072013	2.5	49
107	Electromechanical actuation and current-induced metastable states in suspended single-crystalline VO <sub>2</sub> nanoplatelets. <i>Nano Letters</i> , <b>2011</b> , 11, 3065-73	11.5	47
106	Magnetically induced field effect in carbon nanotube devices. <i>Nano Letters</i> , <b>2007</b> , 7, 960-4	11.5	47
105	Cross-beam pulsed laser deposition: General characteristic. <i>Review of Scientific Instruments</i> , <b>2001</b> , 72, 2665-2672	1.7	47
104	Dual harmonic Kelvin probe force microscopy at the graphene-liquid interface. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 133103	3.4	42
103	Near-field microwave scanning probe imaging of conductivity inhomogeneities in CVD graphene. <i>Nanotechnology</i> , <b>2012</b> , 23, 385706	3.4	40
102	Seeing through Walls at the Nanoscale: Microwave Microscopy of Enclosed Objects and Processes in Liquids. <i>ACS Nano</i> , <b>2016</b> , 10, 3562-70	16.7	39
101	Origins of 1/f noise in individual semiconducting carbon nanotube field-effect transistors. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	38
100	Quantification of in-contact probe-sample electrostatic forces with dynamic atomic force microscopy. <i>Nanotechnology</i> , <b>2017</b> , 28, 065704	3.4	37
99	Electrostrictive and electrostatic responses in contact mode voltage modulated scanning probe microscopies. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 232901	3.4	37
98	Free-standing ferroelectric nanotubes processed via soft-template infiltration. <i>Advanced Materials</i> , <b>2012</b> , 24, 1160-5	24	36
97	Broadband dielectric microwave microscopy on micron length scales. <i>Review of Scientific Instruments</i> , <b>2007</b> , 78, 044701	1.7	36

96	Giant elastic tunability in strained BiFeO <sub>3</sub> near an electrically induced phase transition. <i>Nature Communications</i> , <b>2015</b> , 6, 8985	17.4	35
95	Probing local bias-induced transitions using photothermal excitation contact resonance atomic force microscopy and voltage spectroscopy. <i>ACS Nano</i> , <b>2015</b> , 9, 1848-57	16.7	35
94	Microwave impedance spectroscopy of dense carbon nanotube bundles. <i>Nano Letters</i> , <b>2008</b> , 8, 152-6	11.5	35
93	A photolithographic process for fabrication of devices with isolated single-walled carbon nanotubes. <i>Nanotechnology</i> , <b>2004</b> , 15, 1475-1478	3.4	32
92	Mapping internal structure of coal by confocal micro-Raman spectroscopy and scanning microwave microscopy. <i>Fuel</i> , <b>2014</b> , 126, 32-37	7.1	30
91	Big data in reciprocal space: Sliding fast Fourier transforms for determining periodicity. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 091601	3.4	29
90	Nanometer-scale mapping of irreversible electrochemical nucleation processes on solid Li-ion electrolytes. <i>Scientific Reports</i> , <b>2013</b> , 3, 1621	4.9	28
89	Kelvin probe force microscopy in liquid using electrochemical force microscopy. <i>Beilstein Journal of Nanotechnology</i> , <b>2015</b> , 6, 201-14	3	28
88	Surface Control of Epitaxial Manganite Films via Oxygen Pressure. <i>ACS Nano</i> , <b>2015</b> , 9, 4316-27	16.7	26
87	In situ X-ray microdiffraction studies inside individual VO <sub>2</sub> microcrystals. <i>Acta Materialia</i> , <b>2013</b> , 61, 2751-2762	2.7	26
86	Acoustic Detection of Phase Transitions at the Nanoscale. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 478-486	4.9	25
85	Defect thermodynamics and kinetics in thin strained ferroelectric films: The interplay of possible mechanisms. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	25
84	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
83	High-resolution dielectric characterization of minerals: A step towards understanding the basic interactions between microwaves and rocks. <i>International Journal of Mineral Processing</i> , <b>2016</b> , 151, 8-21		25
82	Spatially resolved mapping of oxygen reduction/evolution reaction on solid-oxide fuel cell cathodes with sub-10 nm resolution. <i>ACS Nano</i> , <b>2013</b> , 7, 3808-14	16.7	24
81	Humidity effect on nanoscale electrochemistry in solid silver ion conductors and the dual nature of its locality. <i>Nano Letters</i> , <b>2015</b> , 15, 1062-9	11.5	24
80	Nonlinear space charge dynamics in mixed ionic-electronic conductors: Resistive switching and ferroelectric-like hysteresis of electromechanical response. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 066808	2.5	24
79	Features of the film-growth conditions by cross-beam pulsed-laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , <b>1999</b> , 69, 353-358	2.6	24

78	Big-data reflection high energy electron diffraction analysis for understanding epitaxial film growth processes. <i>ACS Nano</i> , <b>2014</b> , 8, 10899-908	16.7	22
77	Structural investigations of laser-deposited Fe/Al multilayers. <i>Applied Physics A: Materials Science and Processing</i> , <b>1999</b> , 68, 497-503	2.6	22
76	Self-consistent modeling of electrochemical strain microscopy of solid electrolytes. <i>Nanotechnology</i> , <b>2014</b> , 25, 445701	3.4	21
75	Near-field microwave microscope with improved sensitivity and spatial resolution. <i>Review of Scientific Instruments</i> , <b>2003</b> , 74, 3167-3170	1.7	21
74	Scanning Near-Field Microwave Microscopy of VO <sub>2</sub> and Chemical Vapor Deposition Graphene. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 2635-2645	15.6	20
73	Zero-bias anomaly and possible superconductivity in single-walled carbon nanotubes. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	20
72	Learning from Imperfections: Predicting Structure and Thermodynamics from Atomic Imaging of Fluctuations. <i>ACS Nano</i> , <b>2019</b> , 13, 718-727	16.7	19
71	Toward quantitative electrochemical measurements on the nanoscale by scanning probe microscopy: environmental and current spreading effects. <i>ACS Nano</i> , <b>2013</b> , 7, 8175-82	16.7	18
70	Oxygen control of atomic structure and physical properties of SrRuO <sub>3</sub> surfaces. <i>ACS Nano</i> , <b>2013</b> , 7, 4403-4413	16.7	18
69	Structural and magnetic phase transformation in metastable Fe <sub>1-x</sub> Cr alloys induced by ion irradiation. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 572-577	2.5	18
68	X-ray investigation of metastable crystalline phases in co-deposited Fe <sub>1-x</sub> Cr alloy nanometer films. <i>Journal of Alloys and Compounds</i> , <b>2002</b> , 334, 159-166	5.7	18
67	Electromechanical properties of electrostrictive CeO <sub>2</sub> :Gd membranes: Effects of frequency and temperature. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 142902	3.4	17
66	Polarization Control via He-Ion Beam Induced Nanofabrication in Layered Ferroelectric Semiconductors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 7349-55	9.5	17
65	Nanoscale lubrication of ionic surfaces controlled via a strong electric field. <i>Scientific Reports</i> , <b>2015</b> , 5, 8049	4.9	16
64	Comparative study of interfaces of Fe/Al multilayers prepared by direct and crossed-beam pulsed laser deposition. <i>Thin Solid Films</i> , <b>2001</b> , 391, 47-56	2.2	16
63	Ion transport and softening in a polymerized ionic liquid. <i>Nanoscale</i> , <b>2015</b> , 7, 947-55	7.7	14
62	Nanoscale Mapping of the Double Layer Potential at the Graphene-Electrolyte Interface. <i>Nano Letters</i> , <b>2020</b> , 20, 1336-1344	11.5	14
61	Magneto-optical properties of Co/Bd alloy films with perpendicular magnetic anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1998</b> , 185, 258-264	2.8	14

60	Fabrication of magnetic nanostructures by direct laser interference lithography on supersaturated metal mixtures. <i>Applied Physics A: Materials Science and Processing</i> , <b>1999</b> , 69, S819-S822	2.6	14
59	An atomic force microscopy mode for nondestructive electromechanical studies and its application to diphenylalanine peptide nanotubes. <i>Ultramicroscopy</i> , <b>2018</b> , 185, 49-54	3.1	13
58	In Aqua Electrochemistry Probed by XPEEM: Experimental Setup, Examples, and Challenges. <i>Topics in Catalysis</i> , <b>2018</b> , 61, 2195-2206	2.3	13
57	Growth Mode Transition in Complex Oxide Heteroepitaxy: Atomically Resolved Studies. <i>Crystal Growth and Design</i> , <b>2016</b> , 16, 2708-2716	3.5	12
56	A self-forming nanocomposite concept for ZnO-based thermoelectrics. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 13386-13396	13	12
55	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
54	Atomic-scale electrochemistry on the surface of a manganite by scanning tunneling microscopy. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 143107	3.4	12
53	Probing local electromechanical effects in highly conductive electrolytes. <i>ACS Nano</i> , <b>2012</b> , 6, 10139-46	16.7	12
52	Carbon nanotubes as nanoscale probes of the superconducting proximity effect in Pd-Nb junctions. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	12
51	Formation of unusual intermetallic phases by vacuum PLD. <i>Applied Surface Science</i> , <b>2002</b> , 197-198, 475-480	17.0	12
50	CoPd alloy films for magneto-optical recording. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1999</b> , 193, 174-176	2.8	12
49	Controlled Nanopatterning of a Polymerized Ionic Liquid in a Strong Electric Field. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 805-811	15.6	11
48	Near-field microwave microscopy of high-T <sub>c</sub> oxides grown on graphene with an organic seeding layer. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 243105	3.4	11
47	Piezoresponse amplitude and phase quantified for electromechanical characterization. <i>Journal of Applied Physics</i> , <b>2020</b> , 128, 171105	2.5	10
46	Spatially-resolved mapping of history-dependent coupled electrochemical and electrical behaviors of electroresistive NiO. <i>Scientific Reports</i> , <b>2014</b> , 4, 6725	4.9	10
45	The search for superconductivity at van Hove singularities in carbon nanotubes. <i>Superconductor Science and Technology</i> , <b>2012</b> , 25, 124005	3.1	10
44	Thermally stimulated crystalline phase transformations in metastable FeCr alloy films prepared by pulsed laser deposition. <i>Journal of Alloys and Compounds</i> , <b>2002</b> , 347, 171-177	5.7	10
43	Selective patterning of out-of-plane piezoelectricity in MoTe <sub>2</sub> via focused ion beam. <i>Nano Energy</i> , <b>2021</b> , 79, 105451	17.1	10

42	Thermally stimulated solid state reactions in Fe/Al multilayers prepared by pulsed laser deposition. <i>Journal of Alloys and Compounds</i> , <b>2001</b> , 320, 114-125	5.7	9
41	Correlative Confocal Raman and Scanning Probe Microscopy in the Ionically Active Particles of LiMnO Cathodes. <i>Materials</i> , <b>2019</b> , 12,	3.5	8
40	Synthesis and frequency-dependent dielectric properties of epitaxial La <sub>1.875</sub> Sr <sub>0.125</sub> NiO <sub>4</sub> thin films. <i>Journal Physics D: Applied Physics</i> , <b>2012</b> , 45, 305302	3	8
39	Spatio-energetical characteristics of laser plasma in cross-beam pulsed laser deposition. <i>Applied Surface Science</i> , <b>1999</b> , 138-139, 12-16	6.7	8
38	Effects of lateral and substrate constraint on the piezoresponse of ferroelectric nanostructures. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 112901	3.4	7
37	Cross-beam pulsed laser deposition of ultrathin multilayer metal films <b>1999</b> ,		7
36	Surface reconstructions and modified surface states in La <sub>1-x</sub> CaxMnO <sub>3</sub> . <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	7
35	Quantitative Nanometer-Scale Mapping of Dielectric Tunability. <i>Advanced Materials Interfaces</i> , <b>2015</b> , 2, 1500088	4.6	6
34	Effect of silver doping on the surface of La <sub>5/8</sub> Ca <sub>3/8</sub> MnO <sub>3</sub> epitaxial films. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 101602	3.4	6
33	Structure of Laser-Deposited Fe/Al Multilayers. <i>Materials Science Forum</i> , <b>1998</b> , 287-288, 455-458	0.4	6
32	Local coexistence of VO <sub>2</sub> phases revealed by deep data analysis. <i>Scientific Reports</i> , <b>2016</b> , 6, 29216	4.9	6
31	Near-Field Probe Microscopy of Plasma Processing.. <i>Applied Physics Letters</i> , <b>2018</b> , 113,	3.4	6
30	The Ehrlich-Schwoebel barrier on an oxide surface: a combined Monte-Carlo and in situ scanning tunneling microscopy approach. <i>Nanotechnology</i> , <b>2015</b> , 26, 455705	3.4	5
29	Exploring the magnetically induced field effect in carbon nanotube-based devices. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2008</b> , 40, 1010-1013	3	5
28	Graphene etching by a Near-Field Scanning Microwave Microscope <b>2013</b> ,		4
27	Near-Field Microwave Microscopy: Subsurface Imaging for In Situ Characterization. <i>IEEE Microwave Magazine</i> , <b>2020</b> , 21, 72-86	1.2	4
26	Mn-Doped BaTiO <sub>3</sub> Ceramics: Thermal and Electrical Properties for Multicaloric Applications. <i>Materials</i> , <b>2019</b> , 12,	3.5	3
25	Transition layers in metal bilayers produced by pulsed laser deposition in vacuum. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2002</b> , 20, 1557-1565	2.9	3

24	Local electromechanical response in doped ceria: Rigorous analysis of the phase and amplitude. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2020</b> , 27, 1478-1485	2.3	3
23	Probing Electrified Liquid-Solid Interfaces with Scanning Electron Microscopy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 56650-56657	9.5	3
22	Local electronic transport across probe/ionic conductor interface in scanning probe microscopy. <i>Ultramicroscopy</i> , <b>2021</b> , 220, 113147	3.1	3
21	Statics and dynamics of ferroelectric domains in molecular multiaxial ferroelectric (Me <sub>3</sub> NOH) <sub>2</sub> [KCo(CN) <sub>6</sub> ]. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 10741-10748	7.1	3
20	Enhancement of local piezoelectric properties of a perforated ferroelectric thin film visualized via piezoresponse force microscopy. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 425303	3	2
19	Patterning: Atomic-Level Sculpting of Crystalline Oxides: Toward Bulk Nanofabrication with Single Atomic Plane Precision (Small 44/2015). <i>Small</i> , <b>2015</b> , 11, 5854-5854	11	2
18	Structural peculiarities of metal alloy and multilayer films synthesized from laser erosion plasma <b>2001</b> ,		2
17	Magneto-optical properties of alloy films CoPd with perpendicular magnetic anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , <b>1999</b> , 203, 244-246	2.8	2
16	Exploring Charged Defects in Ferroelectrics by the Switching Spectroscopy Piezoresponse Force Microscopy.. <i>Small Methods</i> , <b>2021</b> , e2101289	12.8	2
15	Atomic-Level Fabrication of Crystalline Oxides in STEM. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 939-940	0.5	1
14	Near field microwave microscopy for nanoscale characterization, imaging and patterning of graphene <b>2014</b> ,		1
13	Lattice-Symmetry-Driven Phase Competition in Vanadium Dioxide. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1292, 67		1
12	Giant magnetoresistance and magnetism of heterogeneous CoCu produced by ion-beam techniques. <i>Sensors and Actuators A: Physical</i> , <b>2001</b> , 91, 169-172	3.9	1
11	Production of Thin Films of Metastable Materials by Cross-Beam Pulsed Laser Deposition. <i>Materials Science Forum</i> , <b>2000</b> , 343-346, 231-236	0.4	1
10	Metastable Phase Formation in Fe-Al Thin Films Cocondensed by Cross-Beam Pulsed Laser Deposition. <i>Materials Science Forum</i> , <b>2000</b> , 343-346, 249-254	0.4	1
9	Tunable Microwave Conductance of Nanodomains in Ferroelectric PbZr <sub>0.2</sub> Ti <sub>0.8</sub> O <sub>3</sub> Thin Film. <i>Advanced Electronic Materials</i> , <b>2022</b> , 8, 2100952	6.4	0
8	Operando Scanning Electron and Microwave Microscopies in Plasmas: A Comparative Analysis. <i>Microscopy and Microanalysis</i> , <b>2020</b> , 26, 2498-2499	0.5	
7	Functional material properties of oxide thin films probed by atomic force microscopy on the nanoscale <b>2018</b> , 181-201		



- 6 Unconventional Antiferroelectric Phase Stabilization in Thin Film BiFeO<sub>3</sub> by Interface-Induced Rotoelectric Coupling Effect. *Microscopy and Microanalysis*, **2012**, 18, 412-413 0.5
- 5 Dielectrophoresis-Based Assembly and High-Frequency Characterization of Carbon Nanotube Bundles. *Materials Research Society Symposia Proceedings*, **2007**, 990, 1
- 4 Unveiling the Magnetically Induced Field-Effect in Carbon Nanotubes Devices. *Springer Proceedings in Physics*, **2008**, 111-113 0.2
- 3 Electromigration and Diffusion Researches in Scanning Probe Microscopy of Solid Electrolytes. *Ukrainian Journal of Physics*, **2015**, 60, 1027-1035 0.4
- 2 Multiferroic properties of barium strontium titanate ceramics doped with gadolinium and iron. *Ferroelectrics*, **2021**, 574, 109-114 0.6
- 1 Polarization of the Graphene-Liquid Electrolyte Interface Probed by SEM. *Microscopy and Microanalysis*, **2018**, 24, 354-355 0.5