## Kazuya Terabe

## List of Publications by Year in Descending Order

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

183 8,019 43 86 g-index

197 8,829 5 25.83 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
183	Effects of Oxygen Partial Pressure and Substrate Temperature on the Structure and Morphology of Sc and Y Co-Doped ZrO Solid Electrolyte Thin Films Prepared via Pulsed Laser Deposition <i>Materials</i> , <b>2022</b> , 15,	3.5	1
182	Ionic Nanoarchitectonics: Creation of Polymer-Based Atomic Switch and Decision-Making Device. <i>NIMS Monographs</i> , <b>2022</b> , 113-126	0.3	
181	Operating Mechanism and Resistive Switching Characteristics of Two- and Three-Terminal Atomic Switches Using a Thin Metal Oxide Layer. <i>Kluwer International Series in Electronic Materials: Science and Technology</i> , <b>2022</b> , 209-234		
180	Atomic scale switches based on solid state ionics. Advances in Physics: X, 2022, 7,	5.1	0
179	Quantum conductance in memristive devices: fundamentals, developments, and applications <i>Advanced Materials</i> , <b>2022</b> , e2201248	24	4
178	Ionic Nanoarchitectonics for Artificial Intelligence Devices <b>2022</b> , 191-218		
177	Substrate effect on the neuromorphic function of nanoionics-based transistors fabricated using WO3 thin film. <i>Solid State Ionics</i> , <b>2021</b> , 364, 115638	3.3	O
176	Neuromorphic System for Edge Information Encoding: Emulating Retinal Center-Surround Antagonism by Li-Ion-Mediated Highly Interactive Devices. <i>Nano Letters</i> , <b>2021</b> , 21, 7938-7945	11.5	3
175	Impact of moisture absorption on the resistive switching characteristics of a polyethylene oxide-based atomic switch. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 11198-11206	7.1	2
174	Effects of water adsorption on conductive filaments of a Ta2O5 atomic switch investigated by nondestructive electrical measurements. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 233104	3.4	
173	A mesoporous SiO2 thin films-based ionic decision-maker for solving multi-armed bandit problems. Japanese Journal of Applied Physics, <b>2020</b> , 59, SIIG01	1.4	2
172	Oxygen-tolerant operation of all-solid-state ionic-gating devices: advantage of all-solid-state structure for ionic-gating. <i>Japanese Journal of Applied Physics</i> , <b>2020</b> , 59, SIIG09	1.4	2
171	A graphene oxide-based ionic decision-maker for simple fabrication and stable operation. <i>Japanese Journal of Applied Physics</i> , <b>2020</b> , 59, SIIG03	1.4	2
170	Fabrication of a magnesium-ion-conducting magnesium phosphate electrolyte film using atomic layer deposition. <i>Japanese Journal of Applied Physics</i> , <b>2020</b> , 59, SIIG08	1.4	0
169	Artificial Synapses Realized by Atomic Switch Technology. <i>Advances in Atom and Single Molecule Machines</i> , <b>2020</b> , 175-199	O	1
168	Ionic Decision-maker for Solving Multi-armed Bandit Problems. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , <b>2020</b> , 71, 453-458	0.1	
167	Invention and Development of the Atomic Switch. <i>Advances in Atom and Single Molecule Machines</i> , <b>2020</b> , 1-15	O	2

## (2018-2020)

166	Nanoionic Devices for Physical Property Tuning and Enhancement. <i>Advances in Atom and Single Molecule Machines</i> , <b>2020</b> , 161-174	0	1
165	Room-Temperature Manipulation of Magnetization Angle, Achieved with an All-Solid-State Redox Device. <i>ACS Nano</i> , <b>2020</b> , 14, 16065-16072	16.7	2
164	A Voltage-Controlled Oscillator Using Variable Capacitors with a Thin Dielectric Electrolyte Film. <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 2788-2797	4	4
163	High responsivity in MoS2 phototransistors based on charge trapping HfO2 dielectrics. <i>Communications Materials</i> , <b>2020</b> , 1,	6	11
162	Fabrication of graphene/MoS2 alternately stacked structure for enhanced lithium storage. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 239, 121987	4.4	8
161	Preparation of layered Si materials as anode for lithium-ion batteries. <i>Chemical Physics Letters</i> , <b>2019</b> , 730, 198-205	2.5	8
160	In Situ Hard X-ray Photoelectron Spectroscopy of Space Charge Layer in a ZnO-Based All-Solid-State Electric Double-Layer Transistor. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 10487-10493	3.8	6
159	Significant roles of the polymer matrix in the resistive switching behavior of polymer-based atomic switches. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 445301	3	11
158	Oxide ion and proton conduction controlled in nano-grained yttria stabilized ZrO2 thin films prepared by pulse laser deposition. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, SDDG01	1.4	4
157	Sr-diffusion-induced inhibition of (100)-oriented growth Ca1\( \text{Sr} \times VO3 \) thin film on a LaAlO3 substrate in pulsed laser deposition. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, SDDG08	1.4	Ο
156	Investigation of Ag and Cu Filament Formation Inside the Metal Sulfide Layer of an Atomic Switch Based on Point-Contact Spectroscopy. <i>ACS Applied Materials &amp; District Contact Spectroscopy</i> . <i>ACS Applied Materials &amp; District Contact Spectroscopy</i> .	9.5	5
155	Atomic Layer Deposition of a Magnesium Phosphate Solid Electrolyte. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 5566-5575	9.6	19
154	Pulse-Induced Resistivity Modulation of Pt/Ti0.99Sc0.01O2-IPt Multilayer with Electron-Ion Mixed Conduction. <i>Transactions of the Materials Research Society of Japan</i> , <b>2019</b> , 44, 197-201	0.2	
153	Conductivity Modulation by CaVO3-based All-solid-state Redox Transistor with Ion Transport of Li+or H+. <i>Transactions of the Materials Research Society of Japan</i> , <b>2019</b> , 44, 57-60	0.2	O
152	Correlated Metal SrVO3 Based All-Solid-State Redox Transistors Achieved by Li+ or H+ Transport. Journal of the Physical Society of Japan, <b>2018</b> , 87, 034802	1.5	5
151	Unexpected metal-insulator transition in thick Ca1-xSrxVO3 film on SrTiO3 (100) single crystal. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 133106	3.4	2
150	Neuromorphic transistor achieved by redox reaction of WO3thin film. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 04FK01	1.4	4
149	Surface Electronic Structure of Post-Annealed La0.67Sr0.33MnO3 Epitaxial Thin Films on SrTiO3(100). <i>Transactions of the Materials Research Society of Japan</i> , <b>2018</b> , 43, 179-182	0.2	

148	Ionic decision-maker created as novel, solid-state devices. Science Advances, 2018, 4, eaau2057	14.3	19
147	Operating mechanism and resistive switching characteristics of two- and three-terminal atomic switches using a thin metal oxide layer. <i>Journal of Electroceramics</i> , <b>2017</b> , 39, 143-156	1.5	21
146	Resonant photoemission and X-ray absorption spectroscopies of lithiated magnetite thin film. <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 04CK01	1.4	1
145	Magnetic Control of Magneto-Electrochemical Cell and Electric Double Layer Transistor. <i>Scientific Reports</i> , <b>2017</b> , 7, 10534	4.9	11
144	Electrical-pulse-induced resistivity modulation in Pt/TiO2/Pt multilayer device related to nanoionics-based neuromorphic function. <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 06GH01	1.4	6
143	Atomic Switches <b>2016</b> , 515-546		3
142	Synaptic Metaplasticity Realized in Oxide Memristive Devices. <i>Advanced Materials</i> , <b>2016</b> , 28, 377-84	24	164
141	In Situ Tuning of Magnetization and Magnetoresistance in Fe3O4 Thin Film Achieved with All-Solid-State Redox Device. <i>ACS Nano</i> , <b>2016</b> , 10, 1655-61	16.7	64
140	A general strategy toward transition metal carbide/carbon core/shell nanospheres and their application for supercapacitor electrode. <i>Carbon</i> , <b>2016</b> , 100, 590-599	10.4	54
139	Revival of "dead" memristive devices: case of WO3-x. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 139	2366	5
138	Decision maker based on atomic switches. AIMS Materials Science, 2016, 3, 245-259	1.9	15
137	Comparison of subthreshold swing in SrTiO3-based all-solid-state electric-double-layer transistors with Li4SiO4or Y-stabilized-ZrO2solid electrolyte. <i>Japanese Journal of Applied Physics</i> , <b>2016</b> , 55, 06GJ03	1.4	6
136	Nanoionic devices enabling a multitude of new features. <i>Nanoscale</i> , <b>2016</b> , 8, 13873-9	7.7	17
135	Nanoionic devices: Interface nanoarchitechtonics for physical property tuning and enhancement. Japanese Journal of Applied Physics, <b>2016</b> , 55, 1102A4	1.4	12
134	Size-Controlled AgI/Ag Heteronanowires in Highly Ordered Alumina Membranes: Superionic Phase Stabilization and Conductivity. <i>Nano Letters</i> , <b>2015</b> , 15, 5161-7	11.5	15
133	Effect of Ionic Conductivity on Response Speed of SrTiO3-Based All-Solid-State Electric-Double-Layer Transistor. <i>ACS Applied Materials &amp; Distriction (Condition of the Condition of the Conditio</i>	9.5	30
132	Modulation of superconducting critical temperature in niobium film by using all-solid-state electric-double-layer transistor. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 013104	3.4	20
131	In situ and nonvolatile photoluminescence tuning and nanodomain writing demonstrated by all-solid-state devices based on graphene oxide. <i>ACS Nano</i> , <b>2015</b> , 9, 2102-10	16.7	33

130	Down-scaling of resistive switching to nanoscale using porous anodic alumina membranes. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 349-355	7.1	39
129	In situ and non-volatile bandgap tuning of multilayer graphene oxide in an all-solid-state electric double-layer transistor. <i>Advanced Materials</i> , <b>2014</b> , 26, 1087-91	24	70
128	Micro x-ray photoemission and Raman spectroscopic studies on bandgap tuning of graphene oxide achieved by solid state ionics device. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 183101	3.4	20
127	Graphene: In Situ and Non-Volatile Bandgap Tuning of Multilayer Graphene Oxide in an All-Solid-State Electric Double-Layer Transistor (Adv. Mater. 7/2014). <i>Advanced Materials</i> , <b>2014</b> , 26, 11	43 <del>21</del> 143	3 <sup>1</sup>
126	Direct observation of redox state modulation at carbon/amorphous tantalum oxide thin film hetero-interface probed by means of in situ hard X-ray photoemission spectroscopy. <i>Solid State Ionics</i> , <b>2013</b> , 253, 110-118	3.3	16
125	Theoretical modeling of electrode impedance for an oxygen ion conductor and metallic electrode system based on the interfacial conductivity theory. Part II: Case of the limiting process by non-steady-state surface diffusion. <i>Solid State Ionics</i> , <b>2013</b> , 249-250, 78-85	3.3	7
124	Quantized Conductance and Neuromorphic Behavior of a Gapless-Type Ag-Ta2O5 Atomic Switch. <i>Materials Research Society Symposia Proceedings</i> , <b>2013</b> , 1562, 1		5
123	Room temperature redox reaction by oxide ion migration at carbon/Gd-doped CeO heterointerface probed by an hard x-ray photoemission and soft x-ray absorption spectroscopies. <i>Science and Technology of Advanced Materials</i> , <b>2013</b> , 14, 045001	7.1	16
122	All-solid-state electric-double-layer transistor based on oxide ion migration in Gd-doped CeO2 on SrTiO3 single crystal. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 073110	3.4	39
121	Synaptic plasticity and memory functions achieved in a WO3-x-based nanoionics device by using the principle of atomic switch operation. <i>Nanotechnology</i> , <b>2013</b> , 24, 384003	3.4	92
120	Volatile and nonvolatile selective switching of a photo-assisted initialized atomic switch. <i>Nanotechnology</i> , <b>2013</b> , 24, 384006	3.4	20
119	Effects of Moisture on the Switching Characteristics of Oxide-Based, Gapless-Type Atomic Switches. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 70-77	15.6	217
118	Atomic switch: atom/ion movement controlled devices for beyond von-neumann computers. <i>Advanced Materials</i> , <b>2012</b> , 24, 252-67	24	295
117	On-demand nanodevice with electrical and neuromorphic multifunction realized by local ion migration. <i>ACS Nano</i> , <b>2012</b> , 6, 9515-21	16.7	153
116	Biomimetics: Controlling the Synaptic Plasticity of a Cu2S Gap-Type Atomic Switch (Adv. Funct. Mater. 17/2012). <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 3605-3605	15.6	1
115	Conductance quantization and synaptic behavior in a Ta2O5-based atomic switch. <i>Nanotechnology</i> , <b>2012</b> , 23, 435705	3.4	135
114	Controlling the Synaptic Plasticity of a Cu2S Gap-Type Atomic Switch. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 3606-3613	15.6	132
113	Impacts of Temperature and Moisture on the Resistive Switching Characteristics of a Cu-Ta2O5-Based Atomic Switch. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1430, 25		1

112	Flexible resistive switching memory using inkjet printing of a solid polymer electrolyte. <i>AIP Advances</i> , <b>2012</b> , 2, 022144	1.5	26
111	Oxygen migration process in the interfaces during bipolar resistance switching behavior of WO3½-based nanoionics devices. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 231603	3.4	43
110	Flexible Polymer Atomic Switches using Ink-Jet Printing Technique. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1430, 106		1
109	Effect of sintering conditions on mixed ionic-electronic conducting properties of silver sulfide nanoparticles. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 053530	2.5	3
108	Temperature effects on the switching kinetics of a Cu-Ta2O5-based atomic switch. <i>Nanotechnology</i> , <b>2011</b> , 22, 379502	3.4	5
107	Short-term plasticity and long-term potentiation mimicked in single inorganic synapses. <i>Nature Materials</i> , <b>2011</b> , 10, 591-5	27	1159
106	Temperature effects on the switching kinetics of a Cu-Ta2O5-based atomic switch. <i>Nanotechnology</i> , <b>2011</b> , 22, 254013	3.4	66
105	Memristive operations demonstrated by gap-type atomic switches. <i>Applied Physics A: Materials Science and Processing</i> , <b>2011</b> , 102, 811-815	2.6	38
104	A Polymer-Electrolyte-Based Atomic Switch. Advanced Functional Materials, 2011, 21, 93-99	15.6	117
103	Three-terminal nanometer metal switches utilizing solid electrolytes. <i>Electronics and Communications in Japan</i> , <b>2011</b> , 94, 55-61	0.4	2
102	Theoretical investigation of kinetics of a Cu2S-based gap-type atomic switch. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 233501	3.4	14
101	Switching kinetics of a Cu2S-based gap-type atomic switch. <i>Nanotechnology</i> , <b>2011</b> , 22, 235201	3.4	68
100	Atomic switches: atomic-movement-controlled nanodevices for new types of computing. <i>Science and Technology of Advanced Materials</i> , <b>2011</b> , 12, 013003	7.1	37
99	Nanoionics Switching Devices <b>2011</b> , 1-8		
98	Volatile/Nonvolatile Dual-Functional Atom Transistor. <i>Applied Physics Express</i> , <b>2011</b> , 4, 015204	2.4	39
97	Atomic switches: atomic-movement-controlled nanodevices for new types of computing. <i>Science and Technology of Advanced Materials</i> , <b>2011</b> , 12, 013003	7.1	2
96	Rate-Limiting Processes Determining the Switching Time in a Ag2S Atomic Switch. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 604-608	6.4	90
95	Forming and switching mechanisms of a cation-migration-based oxide resistive memory. <i>Nanotechnology</i> , <b>2010</b> , 21, 425205	3.4	242

94	Learning abilities achieved by a single solid-state atomic switch. Advanced Materials, 2010, 22, 1831-4	24	244
93	Nanoionics Switching Devices: Atomic Switches MRS Bulletin, <b>2009</b> , 34, 929-934	3.2	52
92	Development of polymer electrolytes based resistive switch 2009,		2
91	Effect of sulfurization conditions on structural and electrical properties of copper sulfide films. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 073523	2.5	39
90	Resistance Switching in Anodic Oxidized Amorphous TiO2Films. <i>Applied Physics Express</i> , <b>2008</b> , 1, 06400	2 2.4	22
89	Optical waveguide properties of single indium oxide nanofibers. <i>Journal of Optics</i> , <b>2008</b> , 10, 055201		9
88	Origin of green emission from ZnS nanobelts as revealed by scanning near-field optical microscopy. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 091908	3.4	24
87	Structural studies of copper sulfide films: effect of ambient atmosphere. <i>Science and Technology of Advanced Materials</i> , <b>2008</b> , 9, 035011	7.1	65
86	A solid electrolyte nanometer switch. <i>Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi)</i> , <b>2008</b> , 165, 68-73	0.4	2
85	Effect of subgrain boundaries on domain-inverted structure in periodically poled near-stoichiometric LiTaO3 crystal. <i>Optical Materials</i> , <b>2008</b> , 31, 276-279	3.3	3
84	Diffusivity of Cu Ions in Solid Electrolyte and Its Effect on the Performance of Nanometer-Scale Switch. <i>IEEE Transactions on Electron Devices</i> , <b>2008</b> , 55, 3283-3287	2.9	109
83	Three-Terminal Nanometer Metal Switches Utilizing Solid Electrolytes. <i>IEEJ Transactions on Electronics, Information and Systems</i> , <b>2008</b> , 128, 890-895	0.1	
82	Material dependence of switching speed of atomic switches made from silver sulfide and from copper sulfide. <i>Journal of Physics: Conference Series</i> , <b>2007</b> , 61, 1157-1161	0.3	20
81	Effect of nonstoichiometric defects on antiparallel domain formation in LiNbO3. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 232913	3.4	11
8o	AgI/Ag Heterojunction Nanowires: Facile Electrochemical Synthesis, Photoluminescence, and Enhanced Ionic Conductivity. <i>Advanced Functional Materials</i> , <b>2007</b> , 17, 1466-1472	15.6	43
79	Size-dependent single electron tunneling effect in Au nanoparticles. Surface Science, <b>2007</b> , 601, 3907-3	91.8	23
78	Control of local ion transport to create unique functional nanodevices based on ionic conductors. <i>Science and Technology of Advanced Materials</i> , <b>2007</b> , 8, 536-542	7.1	31
77	I-V characteristics of single electron tunneling from symmetric and asymmetric double-barrier tunneling junctions. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 223112	3.4	30

76	Electronic transport in Ta2O5 resistive switch. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 092110	3.4	196
75	Stabilization of periodically poled domain structures in a quasiphase-matching device using near-stoichiometric LiTaO3. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 014101	2.5	6
74	Photocatalytic nanoparticle deposition on LiNbO3 nanodomain patterns via photovoltaic effect. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 044101	3.4	58
73	Stability of engineered domains in ferroelectric LiNbO3and LiTaO3crystals. <i>Physica Scripta</i> , <b>2007</b> , T129, 103-107	2.6	8
72	Anomalous phase transition and ionic conductivity of AgI nanowire grown using porous alumina template. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 124308	2.5	20
71	A Ta2O5 solid-electrolyte switch with improved reliability <b>2007</b> ,		19
70	Resistance switching of an individual Ag2S/Ag nanowire heterostructure. <i>Nanotechnology</i> , <b>2007</b> , 18, 485202	3.4	72
69	Electron-Beam Domain Writing in Stoichiometric LiTaO3Single Crystal by Utilizing Resist Layer. <i>Japanese Journal of Applied Physics</i> , <b>2006</b> , 45, L399-L402	1.4	18
68	Effect of Ion Diffusion on Switching Voltage of Solid-Electrolyte Nanometer Switch. <i>Japanese Journal of Applied Physics</i> , <b>2006</b> , 45, 3666-3668	1.4	57
67	Switching Property of Atomic Switch Controlled by Solid Electrochemical Reaction. <i>Japanese Journal of Applied Physics</i> , <b>2006</b> , 45, L364-L366	1.4	32
66	Fabrication of microdomains at the +Z surface of near-stoichiometric lithium tantalate crystals. Journal Physics D: Applied Physics, <b>2006</b> , 39, 3103-3106	3	3
65	Surface potential imaging of nanoscale LiNbO3 domains investigated by electrostatic force microscopy. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 132905	3.4	32
64	Thermal stability of LiTaO3 domains engineered by scanning force microscopy. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 142906	3.4	25
63	Fabrication of nanoscale gaps using a combination of self-assembled molecular and electron beam lithographic techniques. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 223111	3.4	56
62	NANOSCALE SURFACE ENGINEERING OF LITHIUM NIOBATE SINGLE CRYSTALS. <i>International Journal of Nanoscience</i> , <b>2006</b> , 05, 737-742	0.6	
61	Domain and Surface Structuring of LiNbO3 Single Crystal by Scanning Force Microscopy. <i>Ferroelectrics</i> , <b>2006</b> , 340, 121-128	0.6	5
60	Effect of sulfurization conditions and post-deposition annealing treatment on structural and electrical properties of silver sulfide films. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 103501	2.5	45
59	Formation of Metastable Silver Nanowires of Hexagonal Structure and Their Structural Transformation under Electron Beam Irradiation. <i>Japanese Journal of Applied Physics</i> , <b>2006</b> , 45, 6046-60	)4 <sup>1</sup> 8 <sup>4</sup>	24

## (2004-2006)

58	SIMS-depth profile and microstructure studies of Ti-diffused Mg-doped near-stoichiometric lithium niobate waveguide. <i>Journal of Crystal Growth</i> , <b>2006</b> , 287, 472-477	1.6	9
57	Domain patterning in LiNbO3 and LiTaO3 by focused electron beam. <i>Journal of Crystal Growth</i> , <b>2006</b> , 292, 324-327	1.6	19
56	Template synthesis of M/M2S (M = Ag, Cu) hetero-nanowires by electrochemical technique. <i>Solid State Ionics</i> , <b>2006</b> , 177, 2527-2531	3.3	16
55	Surface potential properties on near-stoichiometric LiNbO3 crystals with nanoscale domain-engineered structures. <i>Journal of Electroceramics</i> , <b>2006</b> , 16, 399-402	1.5	5
54	Atomic Switch-Nano Device using the Transfer of Atoms(Ions) <i>Hyomen Kagaku</i> , <b>2006</b> , 27, 232-238		3
53	Solid-Electrolyte Nanometer Switch. <i>IEICE Transactions on Electronics</i> , <b>2006</b> , E89-C, 1492-1498	0.4	28
52	Ionic-electronic conductor nanostructures: template-confined growth and nonlinear electrical transport. <i>Small</i> , <b>2005</b> , 1, 971-5	11	59
51	A nonvolatile programmable solid-electrolyte nanometer switch. <i>IEEE Journal of Solid-State Circuits</i> , <b>2005</b> , 40, 168-176	5.5	176
50	Nano-Domain Engineering in LiNbO3by Focused Ion Beam. <i>Japanese Journal of Applied Physics</i> , <b>2005</b> , 44, L1550-L1552	1.4	17
49	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
48	Domain patterns on ferroelectric Rh:BaTiO3 single crystals. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2005</b> , 120, 137-140	3.1	3
47	Quantized conductance atomic switch. <i>Nature</i> , <b>2005</b> , 433, 47-50	50.4	960
46	Shapes of isolated domains and field induced evolution of regular and random 2D domain structures in LiNbO3 and LiTaO3. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2005</b> , 120, 109-113	3.1	25
45	A comparative study on the domain switching characteristics of near stoichiometric lithium niobate and lithium tantalate single crystals. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2005</b> , 120, 125-129	3.1	15
44	Ferroelectric Nanodomain Properties in Near-Stoichiometric and Congruent LiNbO3Crystals Investigated by Scanning Force Microscopy. <i>Japanese Journal of Applied Physics</i> , <b>2005</b> , 44, 7012-7014	1.4	13
43	Nanoscale chemical etching of near-stoichiometric lithium tantalate. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 064308	2.5	27
42	Rearrangement of ferroelectric domain structure induced by chemical etching. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 022905	3.4	55
41	Effect of Impressing Rate of Field on Polarization Reversal in Mg Doped Near Stoichiometric Lithium Tantalate Single Crystals. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 848, 70		

40	Self-Organization in LiNbO3 and LiTaO3: Formation of Micro- and Nano-Scale Domain Patterns. <i>Ferroelectrics</i> , <b>2004</b> , 304, 111-116	0.6	23
39	Domain And Surface Engineering Of Ferroelectric Crystal LiNbO3 For Novel Devices. <i>Materials Technology</i> , <b>2004</b> , 19, 162-167	2.1	3
38	Ferroelectric nanodomain patterning in a stoichiometric LiNbO 3 crystal <b>2003</b> , 4970, 75		
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33	Terabit inch Izferroelectric data storage using scanning nonlinear dielectric microscopy nanodomain engineering system. <i>Nanotechnology</i> , <b>2003</b> , 14, 637-642	3.4	37
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30	Ionic/electronic mixed conductor tip of a scanning tunneling microscope as a metal atom source for nanostructuring. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 4009-4011	3.4	50
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