Hiroki Taniguchi

List of Publications by Year
in descending order

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122	2,449	257450	233421
papers	citations	24 h-index	45 g-index

128	128	128	2572
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Phase variation of ferroelectric <mml:math		

#	Article	IF	Citations
19	Optical enhancement of dielectric permittivity in reduced lanthanum aluminate. Physical Review B, 2020, 101, .	3.2	1
20	Examination of Nonlinear Conductivity on the Excitonic Insulator Candidate Ta2NiSe5. Journal of the Physical Society of Japan, 2020, 89, 045001.	1.6	2
21	Improper relaxor state in (Ca1â^'xSrx)8[AlO2]12(MoO4)2. Physical Review Materials, 2020, 4, .	2.4	2
22	Novel Materials with an Optically Tunable Dielectric Response. Journal of the Institute of Electrical Engineers of Japan, 2020, 140, 28-31.	0.0	0
23	Interplay between quantum paraelectricity and thermoelectricity in the photo-Seebeck effect in a SrTiO 3 single crystal. Journal of Applied Physics, 2019, 126, 045111.	2.5	4
24	Weak Ferroelectricity in n = 2 Pseudo Ruddlesdenâ€“Popper-Type Niobate Li₂SrNb₂O₇. Chemistry of Materials, 2019, 31, 6257-6261.	6.7	19
25	Antiferroelectric to Antiferroelectric-Relaxor Phase Transition in Calcium Strontium Sulfoaluminate. Inorganic Chemistry, 2019, 58, 15410-15416.	4.0	8
26	Indium-Free Amorphous Caâ€“Alâ€“O Thin Film as a Transparent Conducting Oxide. Chemistry of Materials, 2019, 31, 8019-8025.	6.7	9
27	Plastic/Ferroelectric Crystals with Easily Switchable Polarization: Low-Voltage Operation, Unprecedentedly High Pyroelectric Performance, and Large Piezoelectric Effect in Polycrystalline Forms. Journal of the American Chemical Society, 2019, 141, 9349-9357.	13.7	132
28	Structural Phase Transitions and Possibility of the Relaxor-like State in Improper Ferroelectric Strontium-Substituted Calcium Sulfoaluminates. Journal of the Physical Society of Japan, 2019, 88, 034718.	1.6	6
29	Exciton Transport in the Electronâ€“Hole System Ta₂NiSe₅. Journal of the Physical Society of Japan, 2019, 88, 113706.	1.6	9
30	Transport and Magnetic Properties of CaPd3â^'xCuxO4 (x â‰ 2.4) with Interconnecting Cu(Pd)O4 Chain Structure. Journal of the Physical Society of Japan, 2018, 87, 104603.	1.6	1
31	Systematic tuning of the photo-dielectric effect in Ba(Al1â€“xZnx)2O4â€“Î´. Applied Physics Letters, 2018, 113, .	3.3	6
32	Impurity-Induced Spin-State Crossover in La0.8Sr0.2Co1â^'xAlxO3. Crystals, 2018, 8, 411.	2.2	2
33	Dynamical coupling of dilute magnetic impurities with quantum spin liquid state in the Sâ€‰â€‰=â€‰â€‰3/2 dimer compound Ba₃ZnRu₂O₉. Journal of Physics Condensed Matter, 2018, 30, 355801.	1.8	5
34	Structural variations and dielectric properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mm	2.4	12
35	Improper ferroelectrics as highâ€efficiency energy conversion materials. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1700009.	2.4	5
36	Absence of Magnetic Long Range Order in Ba₃ZnRu₂O₉: A Spin-Liquid Candidate in the S = 3/2 Dimer Lattice. Journal of the Physical Society of Japan, 2017, 86, 033702.	1.6	15

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37	Optical control of dielectric permittivity in LaAl0.99Zn0.01O3-Î´. Applied Physics Letters, 2017, 110, .	3.3	13
38	Optical evidence for the spin-state disorder in LaCo1â^'xRhxO3. Journal of Physics Condensed Matter, 2017, 29, 235802.	1.8	3
39	Broadband micro light scattering observation of ferroelectric sodium metavanadate. Ferroelectrics, 2017, 512, 14-19.	0.6	0
40	Magnetoelectric Coupling in the Pyrochlore Ruthenate Gd₂Ru₂O₇. Journal of the Physical Society of Japan, 2017, 86, 084708.	1.6	2
41	Enhancement of the dielectric permittivity of (Nb1/2In1/2)0.02Ti0.98O2single crystals at low temperatures due to (Nb + In) codoping. Japanese Journal of Applied Physics, 2017, 56, 10PC02.	1.5	11
42	Giant inductance in non-ohmic conductor. Applied Physics Express, 2017, 10, 081801.	2.4	8
43	Improper Ferroelectricity in Stuffed Aluminate Sodalites for Pyroelectric Energy Harvesting. Physical Review Applied, 2017, 7, .	3.8	22
44	Intrinsic Enhancement of Dielectric Permittivity in (Nb + In) co-doped TiO2 single crystals. Scientific Reports, 2017, 7, 5351.	3.3	36
45	Magneto-thermopower in the Weak Ferromagnetic Oxide CaRu0.8Sc0.2O3: An Experimental Test for the Kelvin Formula in a Magnetic Material. Journal of the Physical Society of Japan, 2017, 86, 104707.	1.6	7
46	Photo-induced persistent enhancement of dielectric permittivity in Zn:BaAl2O4. Applied Physics Letters, 2017, 111, .	3.3	15
47	Novel Charge Ordering in the Trimer Iridium Oxide BaIrO3. Crystals, 2016, 6, 27.	2.2	10
48	High temperature stability of the dielectric and insulating properties of Ca(Ti, Zr)SiO5 ceramics. Applied Physics Letters, 2016, 108, .	3.3	11
49	Optical sheet conductivities of layered oxides. Journal of Physics Condensed Matter, 2016, 28, 325501.	1.8	0
50	Ferromagnetic Cluster Glass Phase Embedded in a Paramagnetic and Metallic Host in Non-Uniform Magnetic System CaRu_{1â^'}_xSc_xO₃. Journal of the Physical Society of Japan, 2016, 85, 034711.	1.6	7
51	Optical conductivity of layered calcium cobaltate Ca₃Co₄O₉. Journal of Physics Condensed Matter, 2016, 28, 085601.	1.8	6
52	Heterovalent Pb-substitution in ferroelectric bismuth silicate Bi₂SiO₅. Journal of Materials Chemistry C, 2016, 4, 3168-3174.	5.5	15
53	Effects of the Ir Impurity on the Thermodynamic and Transport Properties of Ba4Ru3O10. Journal of the Physical Society of Japan, 2015, 84, 094601.	1.6	3
54	Fractal Dynamics in Relaxor Ferroelectrics Studied by Broad-Band Light Scattering Spectroscopy. Nihon Kessho Gakkaishi, 2015, 57, 219-225.	0.0	0

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55	Raman Tensor Analysis by Angle-Resolved Polarized Spectroscopy. Nihon Kessho Gakkaishi, 2015, 57, 285-290.	0.0	0
56	Strong anisotropy of ferroelectricity in lead-free bismuth silicate. Nanoscale, 2015, 7, 11561-11565.	5.6	26
57	Non-uniform Magnetic System Driven by Non-magnetic Ion Substitution in CaRu1â^'xScxO3: Two-Component Analysis. Journal of the Physical Society of Japan, 2015, 84, 014708.	1.6	3
58	Effects of element substitution on the pyroelectric phase transition of stuffed-tridymite-type BaZnGeO4. Solid State Communications, 2015, 219, 12-15.	1.9	8
59	Ruthenium oxide as a thermoelectric material: unconventional thermoelectric properties of Li2RuO3. Journal of Materials Chemistry C, 2015, 3, 10430-10435.	5.5	6
60	Photo-Seebeck effect in ZnS. Japanese Journal of Applied Physics, 2015, 54, 031203.	1.5	17
61	Hierarchical dielectric orders in layered ferroelectrics Bi₂SiO₅. IUCrJ, 2014, 1, 160-164.	2.2	30
62	Photo-induced change of dielectric response in BaCoSiO4 stuffed tridymite. Journal of Applied Physics, 2014, 115, .	2.5	19
63	Structural changes and microstructures in stuffed tridymite-type compounds Ba1â^'xSrxAl2O4. Japanese Journal of Applied Physics, 2014, 53, 09PB01.	1.5	14
64	Growth and characterization of Cu2ZnSn(S Se1â^')4 alloys grown by the melting method. Journal of Crystal Growth, 2014, 386, 204-207.	1.5	20
65	Pseudogap Observed in the Charge Transport in the Thermoelectric Oxide Ca_{3â^'}_xBi_xCo₄O₉ Single Crystals. Journal of the Physical Society of Japan, 2014, 83, 054710.	1.6	10
66	Epitaxial growth of metastable multiferroic AlFeO₃ film on SrTiO₃ (111) substrate. Applied Physics Letters, 2014, 104, 082906.	3.3	44
67	Growth and characterization of Cu₂ ZnSnS₄ single crystals. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 1328-1331.	1.8	26
68	Structural Modification and Domain Structure in a BaTiO₃Film on (110) SrTiO₃. Applied Physics Express, 2013, 6, 015803.	2.4	11
69	High photodegradation efficiency of Rhodamine B catalyzed by bismuth silicate nanoparticles. Catalysis Communications, 2013, 39, 65-69.	3.3	33
70	Ultrafast Real Space Dynamics of Photoexcited State in a Layered Perovskite-Type Spin Crossover Oxide La_{1.5}Sr_{0.5}CoO₄. Journal of the Physical Society of Japan, 2013, 82, 074721.	1.6	9
71	Comparative study of phase transitions in BaTiO₃ thin films grown on (001)- and (110)-oriented SrTiO₃ substrate. Journal of Physics Condensed Matter, 2013, 25, 132001.	1.8	23
72	Ferroelectricity Driven by Twisting of Silicate Tetrahedral Chains. Angewandte Chemie - International Edition, 2013, 52, 8088-8092.	13.8	62

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73	Confocal micro-Raman imaging on 180Â°-domain structure in periodically poled stoichiometric LiNbO₃. Journal of the Ceramic Society of Japan, 2013, 121, 579-582.	1.1	2
74	X-ray Crystal Structure Analysis and Ru Valence of Ba₄Ru₃O₁₀Single Crystals. Journal of the Physical Society of Japan, 2013, 82, 104603.	1.6	10
75	Unconventional Structure in BaTiO3 Thin Film Grown on ï¼^110ï¼‰SrTiO3 Substrate. Nihon Kessho Gakkaishi, 2013, 55, 290-295.	0.0	0
76	Effect of Ca-Substitution on CdTiO3Studied by Raman Scattering and First Principles Calculations. Ferroelectrics, 2012, 426, 268-273.	0.6	7
77	Fractal Dynamics in a Single Crystal of a Relaxor Ferroelectric. Physical Review Letters, 2012, 109, 197601.	7.8	38
78	Ionic liquid-mediated epitaxy of high-quality C60 crystallites in a vacuum. CrystEngComm, 2012, 14, 4939.	2.6	24
79	Preparation of Cu2ZnSnS4 single crystals from Sn solutions. Journal of Crystal Growth, 2012, 341, 38-41.	1.5	69
80	Growth of Cu2ZnSnSe4 single crystals from Sn solutions. Journal of Crystal Growth, 2012, 354, 147-151.	1.5	41
81	Origin of the dielectric response in Ba0.767Ca0.233TiO3. Applied Physics Letters, 2012, 100, .	3.3	14
82	Raman Scattering Study on the Phase Transition Dynamics of Ferroelectric Oxides. , 2012, , .		1
83	Origin of Ferroelectricity in Perovskite-Type Ferroelectric Oxides. Nihon Kessho Gakkaishi, 2012, 54, 276-281.	0.0	0
84	Power-Law Quasielastic Light Scattering Observed in Relaxor Pb(Mg1/3Nb2/3)O3. Ferroelectrics, 2011, 415, 24-28.	0.6	6
85	Spontaneous polarization estimation from the soft mode in strain-free epitaxial polar axis-oriented Pb(Zr,Ti)O3 thick films with tetragonal symmetry. Applied Physics Letters, 2011, 98, .	3.3	23
86	Growth of Cu₂ZnSnS₄ Single Crystal by Traveling Heater Method. Japanese Journal of Applied Physics, 2011, 50, 128001.	1.5	17
87	First-principles calculations of lattice dynamics in CdTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>and CaTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>: Phase stability and ferroelectricity. Physical Review B, 2011, 84, .	3.2	58
88	Raman scattering study of the soft mode in Pb(Mg_{1/3}Nb_{2/3})O₃. Journal of Raman Spectroscopy, 2011, 42, 706-714.	2.5	58
89	Mechanism for suppression of ferroelectricity in Cd1â^'xCaxTiO3. Physical Review B, 2011, 84, .	3.2	40
90	Ferroelectricity and electromechanical coupling in (1 â^' x)AgNbO3-xNaNbO3 solid solutions. Applied Physics Letters, 2011, 99, .	3.3	40

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91	Ferroelectricity of Li-doped silver niobate (Ag, Li)NbO₃. Journal of Physics Condensed Matter, 2011, 23, 075901.	1.8	25
92	High-throughput CW-IR laser deposition and laser microscope imaging of binary ionic liquids in vacuum. Science and Technology of Advanced Materials, 2011, 12, 054204.	6.1	2
93	Enhancement of Quantum Ferroelectricity in SrTi^{18}O$_{3}$ Thin Film. Applied Physics Express, 2011, 4, 091501.	2.4	3
94	Ferroelectricity in NaNbO₃: Revisited. Ferroelectrics, 2010, 401, 51-55.	0.6	18
95	Dielectric and soft-mode behaviors of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>AgTaO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>: Physical Review B, 2010, 81, .	3.2	11
96	Molecular Beam Deposition of Nanoscale Ionic Liquids in Ultrahigh Vacuum. ACS Nano, 2010, 4, 5946-5952.	14.6	49
97	Phonon Dynamics in BiFeO₃Studied by Raman Scattering. Ferroelectrics, 2010, 403, 187-190.	0.6	8
98	Ferroelectricity triggered in the quantum paraelectric AgTaO3 by Li-substitution. Applied Physics Letters, 2009, 95, 242904.	3.3	11
99	Tuning the orthorhombicâ€“rhombohedral phase transition temperature in sodium potassium niobate by incorporating barium zirconate. Physica Status Solidi - Rapid Research Letters, 2009, 3, 142-144.	2.4	133
100	Comprehensive Structural Study of Glassy and Metastable Crystalline BaTi₂O₅. Chemistry of Materials, 2009, 21, 259-263.	6.7	66
101	Relaxor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Pb</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:msub><mml:mi>Mg</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn mathvariant="bold">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>: A Ferroelectric with Mu. Physical Review Letters, 2009, 103, 207601.	7.8	256
102	Soft-mode Dynamics in the Ferroelectric Phase Transition of Quantum Paraelectric SrTiO₃. Ferroelectrics, 2009, 379, 168-176.	0.6	5
103	Successive crystallization of ferroelectric-based BaTi2O5 bulk glass studied by Raman scattering. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 148, 48-52.	3.5	13
104	Origin of Giant Dielectric Response in Nonferroelectric CaCu₃Ti₄O₁₂: Inhomogeneous Conduction Nature Probed by Atomic Force Microscopy. Chemistry of Materials, 2008, 20, 1694-1698.	6.7	77
105	Reply to Comment on â€œOrigin of Giant Dielectric Response in Nonferroelectric CaCu3Ti4O12: Inhomogeneous Conduction Nature Probed by Atomic Force Microscopyâ€. Chemistry of Materials, 2008, 20, 6286-6287.	6.7	4
106	Ferroelectricity in Perovskite-Type Oxides. Ferroelectrics, 2008, 369, 127-132.	0.6	11
107	Temperature Evolution of the Optical Phonons in Pb(Ni1/3Nb2/3)O3 Single Crystals Studied by Raman Scattering. Ferroelectrics, 2008, 367, 67-72.	0.6	4
108	Ferroelectric phase transition of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Cd</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> by Raman scattering. Physical Review B, 2008, 77, .	3.2	10

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109	Piezoelectric properties of lithium modified silver niobate perovskite single crystals. Applied Physics Letters, 2008, 92, .	3.3	44
110	Direct observation of the soft mode in the paraelectric phase of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>PbTiO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:m confocal micro-Raman scattering. Physical Review B, 2008, 78, .	3.2	15
111	Dynamics of the Ferroelectric Phase Transition in 18O-exchanged SrTiO3 Studied by Raman Scattering. Ferroelectrics, 2008, 369, 3-9.	0.6	1
112	Recent Topics on the Light Scattering Study of Ferroelectrics. Ferroelectrics, 2007, 355, 3-12.	0.6	3
113	Critical soft-mode dynamics and unusual anticrossing inCdTiO3studied by Raman scattering. Physical Review B, 2007, 76, .	3.2	19
114	Conductive Boundary Layer in CaCu3Ti4O12with Giant-Dielectric-Response. Ferroelectrics, 2007, 347, 140-144.	0.6	7
115	Ideal Soft Mode-Type Quantum Phase Transition and Phase Coexistence at Quantum Critical Point inO18-ExchangedSrTiO3. Physical Review Letters, 2007, 99, 017602.	7.8	46
116	AgNbO3: A lead-free material with large polarization and electromechanical response. Applied Physics Letters, 2007, 90, 252907.	3.3	229
117	Ferroelectricity of SrTiO3 Induced by Oxygen Isotope Exchange. Structure and Bonding, 2007, , 89-118.	1.0	1
118	Raman Scattering Study of Superionic Conductor Lithium Tetraborate Li2B4O7. Japanese Journal of Applied Physics, 2006, 45, 152-154.	1.5	1
119	Neutron Diffraction Study of Crystal Structures of Deuterated Glycinium Phosphite in Paraelectric and Ferroelectric Phases. Journal of the Physical Society of Japan, 2004, 73, 107-115.	1.6	9
120	Effect of Oxygen Isotope Exchange on Ferroelectric Microregion in SrTiO3Studied by Raman Scattering. Journal of the Physical Society of Japan, 2004, 73, 3262-3265.	1.6	13
121	Neutron Diffraction Study of Crystal Structures of Glycinium Phosphite H3NCH2COOHÂ·H2PO3in Paraelectric and Ferroelectric Phases. Journal of the Physical Society of Japan, 2003, 72, 1111-1117.	1.6	19
122	A large piezoelectric voltage coefficient in aluminate-sodalite-type improper ferroelectric oxides. Journal of Materials Chemistry C, 0, , .	5.5	1