Toshio Kikuta

List of Publications by Year
in descending order

82 papers	1,996 citations	257450 24 h-index	243625 44 g-index
82 all docs	82 docs citations	82 times ranked	2228 citing authors

#	Article	IF	Citations
1	TGS crystal as a maximum temperature thermometer. Philosophical Magazine, 2021, 101, 491-500.	1.6	0
2	Preferences of polarity and chirality in triglycine sulfate crystals by alanine ghost. Journal of Physics and Chemistry of Solids, 2021, 151, 109890.	4.0	6
3	A transverse electric current in triglycine sulphate ferroelectric crystal. Philosophical Magazine, 2016, 96, 1332-1343.	1.6	2
4	Pyroelectric properties of the triglycine sulphate crystal formerly influenced by a transverse electric field. Philosophical Magazine, 2015, 95, 289-300.	1.6	4
5	Role of Bias Electric Field for X-ray Diffraction Intensity by TGS Crystal in Transverse Electric Field. Ferroelectrics, 2015, 485, 27-33.	0.6	0
6	Influence of Transverse Electric Field on Dielectric Permittivity of Triglycine Sulfate. Ferroelectrics, 2014, 462, 39-46.	0.6	0
7	Preparation and gas sensing properties of undoped and Pd-doped TiO2 nanowires. Sensors and Actuators B: Chemical, 2014, 190, 838-843.	7.8	60
8	Polarization Reversal in TGS after Application of Transverse Electric Field. Ferroelectrics, 2013, 443, 88-94.	0.6	1
9	Thickness Distribution of Metal Films by Magnetron Sputtering (II) ^|^mdash;Effect of the Distance between the Target and Substrate and the Erosion Distribution^|^mdash;. Journal of the Vacuum Society of Japan, 2013, 56, 382-385.	0.3	0
10	Degree of Order by X-Ray Crystal Structure Analysis in Triglycine Sulfate. Ferroelectrics, 2012, 427, 119-128.	0.6	1
11	Calorimetric Study of Triglycine Sulfate after Prolonged Application of Transverse Electric Field. Ferroelectrics, 2012, 430, 30-35.	0.6	0
12	Influence of side electric potential on hysteresis loop parameters and electric permittivity in the Rochelle salt. Physica B: Condensed Matter, 2012, 407, 3956-3959.	2.7	4
13	Preparation of tungsten oxide nanowires and their application to NO2 sensing. Sensors and Actuators B: Chemical, 2012, 169, 113-120.	7.8	65
14	Influence of Prolonged Application of Transverse Electric Field on Remanent Polarization in Rochelle Salt. Ferroelectrics, 2012, 430, 20-29.	0.6	3
15	NO2 response enhancement and anomalous behavior of n-type SnO2 nanowires functionalized by Pd nanodots. Sensors and Actuators B: Chemical, 2012, 166-167, 671-677.	7.8	34
16	Transverse field effect close to the critical point in the TGS ferroelectric. Philosophical Magazine, 2011, 91, 3755-3765.	1.6	4
17	Thickness Distribution of Metal Films by Magnetron Sputtering. Journal of the Vacuum Society of Japan, 2011, 54, 184-187.	0.3	2
18	Synthesis of metal and metal oxide nanostructures and their application for gas sensing. Materials Chemistry and Physics, 2011, 127, 143-150.	4.0	39

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19	Influence of morphology and structure geometry on NO2 gas-sensing characteristics of SnO2 nanostructures synthesized via a thermal evaporation method. Sensors and Actuators B: Chemical, 2011, 153, 11-16.	7.8	96
20	Effect of micro-electrode geometry on NO2 gas-sensing characteristics of one-dimensional tin dioxide nanostructure microsensors. Sensors and Actuators B: Chemical, 2011, 156, 784-790.	7.8	36
21	Lining of cast iron cylinder with copper alloy utilising high temperature oxidation. International Journal of Cast Metals Research, 2011, 24, 124-126.	1.0	0
22	Growth and ferroelectric properties of l-, d-, and dl-methionine-doped triglycine sulfate crystals. Journal of Crystal Growth, 2010, 313, 20-25.	1.5	8
23	Catalyst supported growth of In2O3 nanostructures and their hydrogen gas sensing properties. Sensors and Actuators B: Chemical, 2010, 147, 48-54.	7.8	86
24	Porosity Assessment of NiO Sputtered Film and NO2 Sensing Property. Journal of the Vacuum Society of Japan, 2010, 53, 226-229.	0.3	1
25	Annealing Effect on the Nanostructure of TiO2 Sputtered Film and H2 Sensing Property. Journal of the Vacuum Society of Japan, 2010, 53, 353-356.	0.3	0
26	Nanostructure of WO3 Sputtered Films Deposited at Various Gas Pressures. Journal of the Vacuum Society of Japan, 2010, 53, 210-213.	0.3	1
27	Influence of Various Amino Acids Doping on Growth and Domain Structure of Tgs Crystals. Ferroelectrics, 2010, 403, 38-44.	0.6	3
28	Order-Disorder Structure of Triglycine Sulfate Under Electric Field. Ferroelectrics, 2010, 403, 111-118.	0.6	6
29	Microstructure and H2 gas sensing properties of undoped and Pd-doped SnO2 nanowires. Sensors and Actuators B: Chemical, 2009, 135, 524-529.	7.8	188
30	Influence of effective surface area on gas sensing properties of WO3 sputtered thin films. Thin Solid Films, 2009, 517, 2069-2072.	1.8	149
31	Preparation of WO3 nanoparticles and application to NO2 sensor. Applied Surface Science, 2009, 256, 1050-1053.	6.1	103
32	Hydrogen sensing properties of Pd-doped SnO2 sputtered films with columnar nanostructures. Thin Solid Films, 2009, 517, 6119-6123.	1.8	36
33	Temperature Dependence of Dielectric Dispersion in TGS Influenced by Perpendicular Electric Field. Ferroelectrics, 2009, 384, 113-119.	0.6	2
34	A generic approach for controlled synthesis of In2O3 nanostructures for gas sensing applications. Journal of Alloys and Compounds, 2009, 481, L35-L39.	5.5	42
35	Hydrogen sensors made of undoped and Pt-doped SnO2 nanowires. Journal of Alloys and Compounds, 2009, 488, L21-L25.	5.5	97
36	Fabrication and gas sensing properties of In2O3 nanopushpins. Applied Physics Letters, 2009, 95, .	3.3	50

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37	Catalyst-free shape controlled synthesis of In2O3 pyramids and octahedron: Structural properties and growth mechanism. Journal of Alloys and Compounds, 2009, 480, L9-L12.	5.5	24
38	O2 and CO sensing of Ga2O3 multiple nanowire gas sensors. Sensors and Actuators B: Chemical, 2008, 129, 666-670.	7.8	169
39	Application of TiAl laminate to a sputtering target for TiAlN films. Vacuum, 2008, 83, 479-482.	3.5	1
40	Porous SnO2 sputtered films with high H2 sensitivity at low operation temperature. Thin Solid Films, 2008, 516, 5111-5117.	1.8	49
41	Synthesis of Titanate Nanorods by High-Temperature Oxidation. Journal of Physical Chemistry C, 2008, 112, 4545-4549.	3.1	14
42	Synthesis and Characterization of TeO₂ Nanowires. Japanese Journal of Applied Physics, 2008, 47, 771.	1.5	41
43	Dealloying Derived Synthesis of W Nanopetal Films and Their Transformation into WO₃. Journal of Physical Chemistry C, 2008, 112, 1391-1395.	3.1	35
44	Growth and Domain Structure of TGS Crystals Doped with Various Amino Acids. Ferroelectrics, 2008, 368, 12-22.	0.6	4
45	Fabrication of WO3 Nanoflakes by a Dealloying-based Approach. Chemistry Letters, 2008, 37, 296-297.	1.3	8
46	Dielectric Character Modified by Perpendicular Electric Field in Triglycine Sulfate. Ferroelectrics, 2008, 367, 163-169.	0.6	4
47	Strange Thermal Expansion of Ferroelectric TGS in the Cryogenic Temperature Region. Ferroelectrics, 2008, 368, 28-35.	0.6	0
48	Crystal Structure of the Ferroelectric Phase of Triglycine Sulfate under an Electric Field. Ferroelectrics, 2007, 347, 65-73.	0.6	13
49	Room temperature gas sensing of p-type TeO2 nanowires. Applied Physics Letters, 2007, 90, 173119.	3.3	103
50	Microstructure and Gas Sensing Property of Porous SnO₂ Sputtered Films. Materials Science Forum, 2007, 539-543, 3508-3513.	0.3	6
51	Dielectric Dispersion around the Ferroelectric Phase Transition in Partially Deuterated Glycine Phosphite. Ferroelectrics, 2007, 355, 204-210.	0.6	1
52	Influence of annealing on microstructure and NO2-sensing properties of sputtered WO3 thin films. Sensors and Actuators B: Chemical, 2007, 128, 173-178.	7.8	90
53	Growth and internal bias field of l-lysine-doped triglycine sulfate (LLysTGS). Journal of Crystal Growth, 2007, 307, 372-377.	1.5	9
54	Domain Pattern of Triglycine Sulfate after Exposure to an Electric Field Perpendicular to the Ferroelectric Axis. Journal of the Korean Physical Society, 2007, 51, 754.	0.7	12

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55	Ferroelectric Phase Transition Character of Glycine Phosphite. Ferroelectrics, 2006, 332, 13-19.	0.6	10
56	Dilatometric Study on Monoclinic Crystals of Ferroelectric TGS Down to Cryogenic Temperature Region. Ferroelectrics, 2006, 337, 59-69.	0.6	8
57	Lining of hydraulic cylinder made of cast iron with copper alloy. Journal of Materials Processing Technology, 2006, 172, 30-34.	6.3	15
58	H2S sensing property of porous SnO2 sputtered films coated with various doping films. Vacuum, 2006, 80, 723-725.	3.5	55
59	Deuteration Effect on the Ferroelectric Phase Transition of TAAP. Ferroelectrics, 2006, 337, 95-103.	0.6	5
60	Effective Surface Area of SnO2-Sputtered Films Evaluated by Measurement of Physical Adsorption Isotherms. Japanese Journal of Applied Physics, 2006, 45, 9180-9184.	1.5	15
61	Lining of Cast Iron Cylinder with Copper Alloy. Advanced Materials Research, 2006, 15-17, 888-893.	0.3	0
62	Influence of an Electric Field Perpendicular to the Ferroelectric Axis on the Dielectric Properties of Triglycine Sulfate. Ferroelectrics, 2006, 336, 91-100.	0.6	18
63	Effect of density and thickness on H2-gas sensing property of sputtered SnO2 films. Vacuum, 2005, 77, 237-243.	3.5	36
64	Dependence of NO2 gas sensitivity of WO3 sputtered films on film density. Thin Solid Films, 2005, 474, 255-260.	1.8	42
65	Polarization reversal of telluric acid ammonium phosphate. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 120, 134-136.	3.5	3
66	NO2Gas Sensor Made of Porous MoO3Sputtered Films. Japanese Journal of Applied Physics, 2005, 44, 792-795.	1.5	12
67	Influence of Uniaxial Pressure on the Phase Transition of Partially Deuterated Glycinium Phosphite. Ferroelectrics, 2004, 302, 99-104.	0.6	1
68	Dielectric Dispersion in the Middle of Polarization Reversal in Triglycine Sulfate Crystals. Ferroelectrics, 2003, 290, 187-192.	0.6	1
69	Simple Model using Gas Sensor Characteristics of each Component Gas to Estimate Individual Gas Concentrations in Gas Mixtures. Japanese Journal of Applied Physics, 2003, 42, 1538-1544.	1.5	0
70	Exact Determination of the Polar Direction in Lithium Trihydrogen Selenite Ferroelectric Crystal. Japanese Journal of Applied Physics, 2003, 42, 6483-6485.	1.5	0
71	Ferroelectric Properties of Deuterated Glycine Phosphite. Ferroelectrics, 2002, 269, 153-158.	0.6	20
72	Dielectric Dispersion of Triglycine Sulfate at Ferroelectric Phase. Ferroelectrics, 2002, 272, 351-356.	0.6	4

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73	Phase transition of copper-doped triglycine sulfate. Ferroelectrics, 2001, 262, 119-124.	0.6	5
74	Superlattice structure of ars in the polar phase. Ferroelectrics, 2001, 261, 245-250.	0.6	0
75	Slit Structure as a Countermeasure for the Thermal Deformation of a Metal Mask. Japanese Journal of Applied Physics, 2001, 40, 7170-7173.	1.5	2
76	Preparation of Ferroelectric Glycine Phosphite Single Crystals. Japanese Journal of Applied Physics, 2000, 39, 6612-6613.	1.5	9
77	Structural change in the paraelectric phase of ammonium Rochelle salt. Ferroelectrics, 1999, 229, 189-194.	0.6	1
78	X-Ray diffraction intensity of ammonium rochelle salt having domain structure. Ferroelectrics, 1999, 222, 243-247.	0.6	1
79	Domain structure in the polar phase of ammonium rochelle salt. Ferroelectrics, 1997, 190, 51-56.	0.6	5
80	Molecular motion of PO₄in KDP at ferroelectric phase transition. Ferroelectrics, 1995, 170, 17-22.	0.6	2
81	A calorimetric study of RS1-xARSx mixed crystal system (0.9 â‰² x < 1.0). Ferroelectrics, 1995, 168, 169-175.	0.6	5
82	Dielectric properties and phase transition in cesium tetrachlorozincate Cs2ZnCl4. Ferroelectrics, 1992, 125, 141-146.	0.6	9