Hirofumi Matsuda

List of Publications by Year
in descending order

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79 papers	2,330 citations	304743 22 h-index	214800 47 g-index
80 all docs	80 docs citations	80 times ranked	2792 citing authors

#	Article	IF	Citations
1	Microstructure-resolved degradation simulation of lithium-ion batteries in space applications. Journal of Power Sources Advances, 2022, 14, 100083.	5.1	4
2	Operando resonant soft X-ray emission spectroscopy of the LiMn₂O₄ cathode using an aqueous electrolyte solution. Physical Chemistry Chemical Physics, 2022, 24, 19177-19183.	2.8	2
3	Chemical bath deposition of transparent ZnO films incorporated with erythrosine B molecules and their synergetic electro/photochromic properties. CrystEngComm, 2020, 22, 2447-2453.	2.6	6
4	Effect of the Charge Process on the Performance of Li-ion Cells during Charge-Discharge Cycling at 0Â°C. Electrochemistry, 2020, 88, 230-235.	1.4	6
5	Effect of the Charge Process and Discharge Rate on the Lithium Stripping Process Visibility in LiFePO₄-Graphite Li-ion Cells during Charge-Discharge Cycling at 0Â°C. Electrochemistry, 2020, 88, 340-342.	1.4	3
6	Durability Analysis of the REIMEI Satellite Li-ion Batteries after more than 14 Years of Operation in Space. Electrochemistry, 2020, 88, 300-304.	1.4	4
7	Large Chargeâ€Transfer Energy in LiFePO₄ Revealed by Fullâ€Multiplet Calculation for the Fe L₃â€edge Soft Xâ€ray Emission Spectra. ChemPhysChem, 2018, 19, 988-992.	2.1	13
8	Sr and Zr transport in PLD-grown Gd-doped ceria interlayers. Solid State Ionics, 2018, 314, 165-171.	2.7	22
9	Synthesis of core-sheath structured fibers of SnO₂/carbon composites by electrospinning. Journal of the Ceramic Society of Japan, 2018, 126, 662-666.	1.1	2
10	Investigation of the relationship between the cycle performance and the electronic structure in LiAlxMn2â^'xO4 (x = 0 and 0.2) using soft X-ray spectroscopy. Physical Chemistry Chemical Physics, 2017, 19, 16507-16511.	2.8	10
11	Correction to Fabrication of Transparent ZnO Thick Film with Unusual Orientation by the Chemical Bath Deposition. Crystal Growth and Design, 2016, 16, 2460-2460.	3.0	0
12	Operando soft x-ray emission spectroscopy of LiMn2O4 thin film involving Liâ€“ion extraction/insertion reaction. Electrochemistry Communications, 2015, 50, 93-96.	4.7	29
13	Fabrication of Transparent ZnO Thick Film with Unusual Orientation by the Chemical Bath Deposition. Crystal Growth and Design, 2015, 15, 3150-3156.	3.0	12
14	Gelâ€Derived Cationâ€“Ï€ Stacking Films of Carbon Nanotubeâ€“Graphene Complexes as Oxygen Cathodes. ChemSusChem, 2014, 7, 2845-2852.	6.8	22
15	Synthesis and Electrical Properties of Garnet-type Solid Oxide Electrolyte Thin Films from Solution Route. Materials Research Society Symposia Proceedings, 2013, 1496, 1.	0.1	1
16	Synthesis of single crystalline Li0.44MnO2 nanowires with large specific capacity and good high current density property for a positive electrode of Li ion battery. Journal of Power Sources, 2010, 195, 7098-7101.	7.8	19
17	Development of Positive Electrode Materials for the High Rate Lithium Ion Battery by Nanostructure Control. Key Engineering Materials, 2010, 445, 109-112.	0.4	0
18	Synthesis of Triaxial LiFePO₄ Nanowire with a VGCF Core Column and a Carbon Shell through the Electrospinning Method. ACS Applied Materials & Interfaces, 2010, 2, 212-218.	8.0	121

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19	Synthesis of Single Crystalline Spinel LiMn₂O₄ Nanowires for a Lithium Ion Battery with High Power Density. Nano Letters, 2009, 9, 1045-1051.	9.1	493
20	Synthesis of single crystalline electro-conductive Na0.44MnO2 nanowires with high aspect ratio for the fast chargeâ€“discharge Li ion battery. Journal of Power Sources, 2008, 182, 349-352.	7.8	78
21	High-Rate Lithium Ion Batteries with Flat Plateau Based on Self-Nanoporous Structure of Tin Electrode. Journal of the Electrochemical Society, 2007, 154, A146.	2.9	27
22	Broadband surface plasmon resonance spectroscopy for determination of refractive-index dispersion of dielectric thin films. Applied Physics Letters, 2007, 90, 181112.	3.3	16
23	Systematic characterization of spectral surface plasmon resonance sensors with absorbance measurement. Applied Optics, 2007, 46, 7963.	2.1	6
24	Synthesis of a Perpendicular TiO2 Nanosheet Film with the Superhydrophilic Property without UV Irradiation. Langmuir, 2007, 23, 7447-7450.	3.5	118
25	Remote voltage generation through sono-electrochemical process on platinum surface. Electrochemistry Communications, 2006, 8, 801-806.	4.7	0
26	Ultrasound-Triggered Smart Drug Release from a Poly(dimethylsiloxane)â€“ Mesoporous Silica Composite. Advanced Materials, 2006, 18, 3083-3088.	21.0	223
27	Development of Lead-Free Piezoelectric Thick Films with a/b-Axis-Oriented Bi_{4-x}Pr_xTi₃O₁₂. Key Engineering Materials, 2006, 301, 61-64.	0.4	2
28	Synthesis and Properties of Nd-Substituted Bismuth Titanate Polycrystalline Thin Films with a-/b-Axes Orientation. Key Engineering Materials, 2006, 301, 57-60.	0.4	2
29	Structural and Electrical Properties of Polycrystalline Bi4-xNdxTi3O12Ferroelectric Thin Films with in-Planec-Axis Orientations. Japanese Journal of Applied Physics, 2005, 44, L292-L294.	1.5	4
30	PbTiO3 content dependence of crystal structure and electrical properties of (100)-/(001)-oriented epitaxial Pb(Mg1â^•3Nb2â^•3)O3-PbTiO3 films grown by metalorganic chemical vapor deposition. Journal of Applied Physics, 2005, 98, 086112.	2.5	10
31	Dependence of electrical properties of epitaxial Pb(Zr,Ti)O3 thick films on crystal orientation and Zrâ^•(Zr+Ti) ratio. Journal of Applied Physics, 2005, 98, 094106.	2.5	114
32	Charge-Compensative Ion Substitution of La3+-Substituted Bismuth Titanate Thin Films for Enhancement of Remanent Polarization. Japanese Journal of Applied Physics, 2004, 43, 2636-2639.	1.5	17
33	Piezoelectric Properties of Polar-Axis-Oriented Ferroelectric Bi4-xPrxTi3O12Thick Films. Japanese Journal of Applied Physics, 2004, 43, 6689-6691.	1.5	6
34	Giant Ferroelectric Polarization in Polar-Axis-Oriented Bi_{4-x}Pr_xTi₃O₁₂ Polycrystalline Thin Films. Key Engineering Materials, 2004, 269, 45-48.	0.4	0
35	Synthesis and Properties of Nd-Substituted Bismuth Titanate Polycrystalline Thin Films with Polar-Axis Orientation. Key Engineering Materials, 2004, 269, 53-56.	0.4	3
36	Comparison Study of (001)-/(100)-Oriented Epitaxial and Fiber-Textured Pb(Zr,Ti)O3Thick Films Prepared by MOCVD. Integrated Ferroelectrics, 2004, 64, 217-225.	0.7	6

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37	Uniform field-induced strain in aâˆ•b-axes-oriented Bi3.9Pr0.1Ti3O12 thick films on IrO2âˆ•Si substrates for lead-free piezoelectric microdevice applications. Applied Physics Letters, 2004, 85, 1220-1222.	3.3	23
38	Ferroelectric and Piezoelectric Properties of Disk Shape Lead Zirconate Titanate Thick Films. Materials Transactions, 2004, 45, 233-235.	1.2	10
39	Ti-site Substitution Using the Higher-valent Cation for Enhancing the Ferroelectric Properties of Nd3+âˆ’substituted Bismuth Titanate Thin Films. Materials Research Society Symposia Proceedings, 2003, 784, 1181.	0.1	0
40	Ferro- and piezoelectric properties of Bi4âˆ’xPrxTi3O12 polycrystalline thick films with Ps-vector orientation. Materials Research Society Symposia Proceedings, 2003, 784, 1011.	0.1	0
41	Fabrication of Lead Zirconate Titanate Thick Film Disks for Micro Transducer Devices. Materials Research Society Symposia Proceedings, 2003, 785, 451.	0.1	1
42	Sample Geometry Effects on Electric-Field-Induced Displacements in Piezoelectric Thin Films Measured by Atomic Force Microscopy. Materials Research Society Symposia Proceedings, 2003, 784, 11291.	0.1	4
43	Design and ferroelectric properties of polar-axis-oriented polycrystalline Bi4âˆ’xPrxTi3O12 thick films on Ir/Si substrates. Applied Physics Letters, 2003, 83, 5023-5025.	3.3	40
44	Large piezoelectric response in (111)-oriented epitaxial Pb(Zr,Ti)O3 films consisting of mixed phases with rhombohedral and tetragonal symmetry. Applied Physics Letters, 2003, 83, 2408-2410.	3.3	39
45	Fabrication of Ion-Cosubstituted Bismuth Titanate Thin Films by Chemical Solution Deposition Method. Integrated Ferroelectrics, 2003, 52, 41-54.	0.7	11
46	Synthesis and Electrical Properties of Sr- and Nb-Cosubstituted Bi4-xSrxTi3-xNbxO12Polycrystalline Thin Films. Japanese Journal of Applied Physics, 2003, 42, L949-L952.	1.5	3
47	Electrical Properties of (Ca,Sr)Bi4Ti4O15Thin Films Fabricated Using a Chemical Solution Deposition Method. Japanese Journal of Applied Physics, 2003, 42, 5990-5993.	1.5	15
48	Compositional Dependence of Electrical Properties of Highly (100)-/(001)-Oriented Pb(Zr,Ti)O3Thick Films Prepared on Si Substrates by Metalorganic Chemical Vapor Deposition. Japanese Journal of Applied Physics, 2003, 42, 5922-5926.	1.5	20
49	Orientation Behavior and Ferro- and Piezoelectric Properties of Bi4-xPrxTi3O12Polycrystalline Films. Japanese Journal of Applied Physics, 2003, 42, 5977-5980.	1.5	36
50	Texture-control of lead zirconate titanate films for actuator applications. , 2003, , .		2
51	Second-Order Nonlinear Optical Properties of Solution-Derived C-Axis Oriented Î²-BaB₂O₄ Thin Films. Key Engineering Materials, 2002, 216, 97-100.	0.4	1
52	Approach for enhanced polarization of polycrystalline bismuth titanate films by Nd3+/V5+ cosubstitution. Applied Physics Letters, 2002, 81, 2229-2231.	3.3	157
53	Fabrication of M3+-Substituted and M3+/V5+-Cosubstituted Bismuth Titanate Thin Films [M=lanthanoid] by Chemical Solution Deposition Technique. Japanese Journal of Applied Physics, 2002, 41, 6820-6824.	1.5	61
54	Evaluation of Longitudinal Displacement for Lead Zirconate Titanate Films. Japanese Journal of Applied Physics, 2002, 41, 6735-6738.	1.5	34

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55	Enhancement of Remanent Polarization of BIT-based Thin Films by Ti-site Substitution using Ions with Higher Charge Valences. Materials Research Society Symposia Proceedings, 2002, 748, 1.	0.1	1
56	Piezoelectric property investigation for sol-gel derived Bi4Ti3O12 thick films. Materials Research Society Symposia Proceedings, 2002, 748, 1.	0.1	0
57	Top Electrode Area Dependence on Displacement Property of Lead Zirconate Titanate Films Prepared by Chemical Solution Deposition Process. Materials Research Society Symposia Proceedings, 2002, 748, 1.	0.1	0
58	Spectroscopic Studies of Rare-Earth-Doped BaTiO₃ Luminescent Gels. Key Engineering Materials, 2001, 216, 57-60.	0.4	1
59	Modulated Photocurrent Measurements on Pure and V-Doped Î²-Rhombohedral Boron. Journal of Solid State Chemistry, 2000, 154, 307-311.	2.9	3
60	Synthesis of Crystalline Barium Titanate Thin Films by Gel-Aging Process on Substrate at Room Temperature. Key Engineering Materials, 2000, 181-182, 81-84.	0.4	0
61	Room-temperature synthesis of crystalline barium titanate thin films by high-concentration solâ€“gel method. Journal of Non-Crystalline Solids, 2000, 271, 162-166.	3.1	45
62	Structural Effects on Optical Properties of Sol-Gel Derived Transparent Monolithic BaTiO₃ Gel. Key Engineering Materials, 1999, 157-158, 3-8.	0.4	0
63	Varistor characteristics in PTCR-type (Ba,Sr)TiO3 ceramics prepared by single-step firing in air. Journal of Materials Science, 1999, 34, 2635-2639.	3.7	14
64	Giant Piezoresistive Effects in Single Grain Boundaries of Semiconducting Barium Titanate Ceramics*. , 1999, 4, 99-103.		7
65	Shift of Optical Absorption Edge in Sol-Gel Derived Transparent BaTiO3 Gels During Aging. Journal of Sol-Gel Science and Technology, 1999, 16, 165-171.	2.4	9
66	Low-Temperature Preparation of (Ba,Sr)TiO3 Perovskite Phase by Sol-Gel Method. Journal of Sol-Gel Science and Technology, 1999, 16, 129-134.	2.4	17
67	Low-Temperature Synthesis and Electrical Properties of Semiconducting BaTiO3 Ceramics by the Sol-Gel Method with High Concentration Alkoxide Solutions.. Journal of the Ceramic Society of Japan, 1999, 107, 290-292.	1.3	5
68	Stressâ€Induced Resistivity Anomaly in Semiconducting Barium Titanate Ceramic Wire. Journal of the American Ceramic Society, 1998, 81, 229-232.	3.8	4
69	Optical Absorption in Solâ€Gelâ€Derived Crystalline Barium Titanium Fine Particles. Journal of the American Ceramic Society, 1998, 81, 3010-3012.	3.8	25
70	Helical nanotubes of hexagonal boron nitride. Journal of Electron Microscopy, 1997, 46, 75-78.	0.9	50
71	Electron Energy-Loss Spectroscopy Study of the Electronic Structure of Li- and V-DopedÎ²-Rhombohedral Boron. Journal of Solid State Chemistry, 1997, 133, 152-155.	2.9	10
72	A Unified Picture for Icosahedral Cluster Solids in Boron-Based and Aluminum-Based Compounds. Journal of Solid State Chemistry, 1997, 133, 302-309.	2.9	47

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73	MÃ¶ssbauer Spectroscopy and Electrical Conductivity of Fe-DopedÎ²-Rhombohedral Boron. Journal of Solid State Chemistry, 1997, 133, 342-346.	2.9	17
74	Differential Negative Resistance and Piezoresistivity in Thin Semiconducting BaTiO₃ Ceramic Bars. Journal of the American Ceramic Society, 1997, 80, 1881-1884.	3.8	10
75	Shift of the Curie Point of Barium Titanate Ceramics with Sintering Temperature. Journal of the American Ceramic Society, 1997, 80, 2590-2596.	3.8	58
76	Structures and Properties of Semiconductor Microclusters. Production and Properties of B12 Cluster Solids.. Hyomen Kagaku, 1997, 18, 156-164.	0.0	2
77	Structural- and electronic-property investigations on metal-doped Î²-rhombohedral boron. Journal of Physics and Chemistry of Solids, 1996, 57, 1167-1174.	4.0	34
78	Structural and electronic properties of Li- and Cu-doped Î²-rhombohedral boron constructed from icosahedral and truncated icosahedral clusters. Physical Review B, 1995, 52, 6102-6110.	3.2	71
79	Rietveld analysis of LiB13 with Î²-rhombohedral boron structure. Journal of Alloys and Compounds, 1995, 221, 120-124.	5.5	42