

Tomohiko Nakajima

List of Publications by Year in descending order

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88
papers

2,637
citations

201385

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197535

49
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88
all docs

88
docs citations

88
times ranked

3035
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible Ceramic Film Sensors for Free-Form Devices. <i>Sensors</i> , 2022, 22, 1996.	2.1	15
2	Photoelectrochemical Oxidation of Glycerol to Dihydroxyacetone Over an Acid-Resistant Ta:BiVO ₄ Photoanode. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 7586-7594.	3.2	24
3	Acid-Resistant BiVO ₄ Photoanodes: Insolubility Control by Solvents and Weak W Diffusion in the Lattice. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 12079-12090.	4.0	10
4	Origin of simultaneous enhancement of work function and carrier concentration in In ₂ O ₃ films by excimer-laser irradiation. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	5
5	Photo-driven Oxygen Vacancies Extends Charge Carrier Lifetime for Efficient Solar Water Splitting. <i>Angewandte Chemie</i> , 2021, 133, 17742-17748.	1.6	6
6	Photo-driven Oxygen Vacancies Extends Charge Carrier Lifetime for Efficient Solar Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17601-17607.	7.2	67
7	Tungsten induced defects control on BiVO ₄ photoanodes for enhanced solar water splitting performance and photocorrosion resistance. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120610.	10.8	32
8	Solar-to-Pharmaceutical Raw Material Production: Photoelectrochemical Naphthoquinone Formation Using Stabilized BiVO ₄ Photoanodes in Acid Media. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 57132-57141.	4.0	5
9	Promoting the hydrogen evolution reaction through oxygen vacancies and phase transformation engineering on layered double hydroxide nanosheets. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2490-2497.	5.2	159
10	Ultrathin Highly Flexible Featherweight Ceramic Temperature Sensor Arrays. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36600-36608.	4.0	10
11	Flexible and Epitaxial Metal Oxide Thin Film Growth by Photoreaction Processing for Electrical and Optical Applications. <i>Chemistry - A European Journal</i> , 2020, 26, 9261-9276.	1.7	7
12	Passive Component Enhancements in High-Temperature Electronic Devices: A Deterioration Mechanism for Metal Electrodes in Ceramic Film Resistors. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 10483-10492.	1.8	1
13	Diffusion controlled porous WO ₃ thin film photoanodes for efficient solar-driven photoelectrochemical permanganic acid production. <i>Sustainable Energy and Fuels</i> , 2019, 3, 2380-2390.	2.5	5
14	Crystal-Plane Dependence of Nb-Doped Rutile TiO ₂ Single Crystals on Photoelectrochemical Water Splitting. <i>Catalysts</i> , 2019, 9, 725.	1.6	4
15	Intermediate-temperature sensors based on La _{0.5} Ba _{0.5} MnO ₃ /nanoporous anodic aluminum oxide multilayered film thermistors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 5193-5200.	2.7	6
16	Simultaneous reduction of surface, bulk, and interface recombination for Au nanoparticle-embedded hematite nanorod photoanodes toward efficient water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5258-5265.	5.2	17
17	Sustainable chromic acid oxidation: solar-driven recycling of hexavalent chromium ions for quinone production by WO ₃ nanosponge photoanodes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 110-117.	5.2	14
18	Effect of Lattice Distortion on Photocatalytic Performance of TiO ₂ . <i>Catalysis Letters</i> , 2017, 147, 292-300.	1.4	14

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19	Highly stable flexible thermistor properties of spinel Mn-Co-Ni oxide films on silver/carbon micro-pinecone array composite electrodes. <i>Journal of Applied Physics</i> , 2017, 122, .	1.1	13
20	An optical method for evaluating the degradation mechanism of a developing RuO ₂ /thick film resistor element for power modules. <i>Journal of the Ceramic Society of Japan</i> , 2017, 125, 476-481.	0.5	4
21	Flexible humidity sensors composed of graphite-like carbon micro-pinecone arrays. <i>RSC Advances</i> , 2016, 6, 95342-95348.	1.7	21
22	WO ₃ nanosponge photoanodes with high applied bias photon-to-current efficiency for solar hydrogen and peroxydisulfate production. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17809-17818.	5.2	49
23	A method to give chemically stabilities of photoelectrodes for water splitting: Compositing of a highly crystallized TiO ₂ layer on a chemically unstable Cu ₂ O photocathode using laser-induced crystallization process. <i>Applied Surface Science</i> , 2016, 363, 173-180.	3.1	31
24	Plant habitat-conscious white light-emitting devices: Dy ³⁺ -emission considerably reduces involvement in photosynthesis. <i>Journal of Materials Chemistry C</i> , 2015, 3, 3371-3378.	2.7	32
25	Rare earth-free high color rendering white light-emitting diodes using CsVO ₃ with highest quantum efficiency for vanadate phosphors. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10748-10754.	2.7	49
26	Flexible thermistors: pulsed laser-induced liquid-phase sintering of spinel Mn-Co-Ni oxide films on polyethylene terephthalate sheets. <i>Journal of Materials Chemistry C</i> , 2015, 3, 3809-3816.	2.7	23
27	Plant Habitat-Conscious White Light Emission of Dy ³⁺ in Whitlockite-like Phosphates: Reduced Photosynthesis and Inhibition of Bloom Impediment. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 21398-21407.	4.0	71
28	Black TiO ₂ Nanotubes Formed by High-Energy Proton Implantation Show Noble-Metal-Catalyst Free Photocatalytic H ₂ -Evolution. <i>Nano Letters</i> , 2015, 15, 6815-6820.	4.5	174
29	Design of process diagnostics for excimer laser irradiation of oxide thin films. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 05FB08.	0.8	3
30	The significant effect of heterojunction quality on photoelectrochemical water splitting in bilayer photoelectrodes: Rb _x WO ₃ thin films on RbLaNb ₂ O ₇ layers. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 26901-26908.	1.3	10
31	Hydrogenated Anatase: Strong Photocatalytic Dihydrogen Evolution without the Use of a Co-Catalyst. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 14201-14205.	7.2	87
32	Solution-processed perfect uniaxial orientation of perovskite titanate (Ca _{0.65} Sr _{0.35}) _{0.997} Pr _{0.002} TiO ₃ phosphor thin films. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 05FB05.	0.8	0
33	Tunable photoluminescent properties of Eu-doped ¹² -Ga ₂ O ₃ phosphor thin films prepared via excimer laser-assisted metal organic decomposition. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 05FB14.	0.8	5
34	Improvement of temperature coefficient of resistance of a VO ₂ film on an SiN/polyimide/Si substrate by excimer laser irradiation for IR sensors. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 05FB15.	0.8	9
35	UV-assisted nucleation and growth of oxide films from chemical solutions. <i>Chemical Society Reviews</i> , 2014, 43, 2027-2041.	18.7	68
36	Single-LED solar simulator for amorphous Si and dye-sensitized solar cells. <i>RSC Advances</i> , 2014, 4, 19165-19171.	1.7	20

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37	Unconventional upright layer orientation and considerable enhancement of protonic electron conductivity in DionacJacobson perovskite thin films. CrystEngComm, 2014, 16, 4113-4119.	1.3	2
38	Rapid formation of black titania photoanodes: pulsed laser-induced oxygen release and enhanced solar water splitting efficiency. Journal of Materials Chemistry A, 2014, 2, 6762-6771.	5.2	52
39	In situ monitoring of excimer laser annealing of tin-doped indium oxide films for the development of a low-temperature fabrication process. Applied Surface Science, 2014, 292, 1052-1058.	3.1	14
40	Fabrication of $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ thin films by chemical solution deposition for high-temperature resistive materials. Journal of the Ceramic Society of Japan, 2014, 122, 415-420.	0.5	6
41	Electrical properties of Sb-doped epitaxial SnO_2 thin films prepared using excimer-laser-assisted metalacorganic deposition. Applied Physics B: Lasers and Optics, 2013, 113, 333-338.	1.1	9
42	In situ measurement of crystallization of oxide thin films during irradiation with pulsed UV laser in chemical solution deposition process. Applied Physics B: Lasers and Optics, 2013, 113, 479-484.	1.1	4
43	N-Doped lepidocrocite nanotubular arrays: hydrothermal formation from anodic TiO_2 nanotubes and enhanced visible light photoresponse. Journal of Materials Chemistry A, 2013, 1, 1860-1866.	5.2	13
44	A universal value of effective annealing time for rapid oxide nucleation and growth under pulsed ultraviolet laser irradiation. Physical Chemistry Chemical Physics, 2013, 15, 14384.	1.3	24
45	Uncooled infrared detector with $12\hat{1}4\text{m}$ pixel pitch video graphics array. Proceedings of SPIE, 2013, , .	0.8	11
46	SR investigation of magnetically ordered states in the A-site ordered perovskite manganites $\text{R}_{1-x}\text{A}_x\text{BaMnO}_3$. Physical Review B, 2012, 85, .	1.1	4
47	Korringa-like relaxation in the high-temperature phase of A-site ordered YBaMn_2O_6 . Physical Review B, 2012, 85, .	1.1	16
48	Out-of-Plane and In-Plane Crystalline Orientations of Oxide Heterostructures of LSMO/ZnO. Materials Research Society Symposia Proceedings, 2012, 1454, 69-74.	0.1	0
49	Pulsed Laser Assisted Polycrystalline Growth of Oxide Thin Films for Efficient Processing. Materials Research Society Symposia Proceedings, 2012, 1449, 3.	0.1	0
50	SR study of A-site ordered perovskite manganite $\text{LaBaMn}_2\text{O}_6$. Journal of Physics: Conference Series, 2012, 391, 012096.	0.3	1
51	Transparent and flexible field emission display device based on single-walled carbon nanotubes. Physica Status Solidi - Rapid Research Letters, 2012, 6, 303-305.	1.2	9
52	IonacExchange Protonation and Enhanced Seed Layer Property of Uniaxially Grown $\text{RbLaNb}_2\text{O}_7$ Thin Films on Glass Substrates. Journal of the American Ceramic Society, 2012, 95, 573-578.	1.9	3
53	Facile on-demand oriented growth of perovskite oxide thin films: applications of DionacJacobson phase as seed layer. CrystEngComm, 2011, 13, 158-166.	1.3	11
54	Low temperature uniaxial growth of conducting LaNiO_3 thin films on glass substrates with $\text{RbLaNb}_2\text{O}_7$ seed layer. Applied Physics A: Materials Science and Processing, 2011, 104, 981-985.	1.1	2

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55	Ti-Doped VO ₂ Films Grown on Glass Substrates by Excimer-Laser-Assisted Metal Organic Deposition Process. Japanese Journal of Applied Physics, 2011, 50, 01BE04.	0.8	28
56	(001)-orientation of anatase TiO ₂ thin films on RbLaNb ₂ O ₇ seed layer prepared by ELAMOD. IOP Conference Series: Materials Science and Engineering, 2011, 18, 032009.	0.3	2
57	Variability of electrical resistivity in epitaxial grown La _{0.5} Ba _{0.5} MnO ₃ patterned micro-wires. Journal of Physics: Conference Series, 2010, 200, 012138.	0.3	0
58	Effective Connection of Phase-Separated Metallic Pathways under Low Magnetic Fields in Charge-Ordered Insulators of Micropatterned Perovskite Manganite Thin Films. Journal of the Physical Society of Japan, 2010, 79, 014712.	0.7	3
59	New sign of vacuum ultraviolet driven crystal growth in ternary oxide Zn ₃ V ₂ O ₈ films. Applied Physics A: Materials Science and Processing, 2010, 98, 885-888.	1.1	4
60	Strain Effect on the Electrical and Magnetic Properties of La _{0.7} Ba _{0.3} MnO ₃ Thin Films Grown by Metal-Organic Deposition. Journal of Superconductivity and Novel Magnetism, 2010, 23, 1355-1358.	0.8	4
61	Photoluminescence property of vanadates M ₂ V ₂ O ₇ (M: Ba, Sr and Ca). Optical Materials, 2010, 32, 1618-1621.	1.7	99
62	Correlation between Luminescence Quantum Efficiency and Structural Properties of Vanadate Phosphors with Chained, Dimerized, and Isolated VO ₄ Tetrahedra. Journal of Physical Chemistry C, 2010, 114, 5160-5167.	1.5	162
63	Probing electronic-phase-separated insulating domains in the metallic phase of patterned perovskite manganite microwires. Physical Review B, 2009, 80, .	1.1	11
64	Rubidium metavanadate formation at room temperature under vacuum ultraviolet irradiation from metal-organic compositions. Applied Surface Science, 2009, 255, 9787-9790.	3.1	8
65	A revisit of photoluminescence property for vanadate oxides AVO ₃ (A:K, Rb and Cs) and M ₃ V ₂ O ₈ (M:Mg) Tj ETQq1_1_0.784314 rgBT /O	1.5	138
66	Pulsed laser-induced oxygen deficiency at TiO ₂ surface: Anomalous structure and electrical transport properties. Journal of Solid State Chemistry, 2009, 182, 2560-2565.	1.4	32
67	Amorphous film thickness dependence for epitaxy of perovskite oxide films under excimer laser irradiation. Applied Surface Science, 2009, 255, 9775-9778.	3.1	5
68	New route for low-temperature fabrication of Sr _{1-x} Pr _x TiO ₃ :Al ³⁺ polycrystalline thin film phosphors. Current Applied Physics, 2008, 8, 404-407.	1.1	7
69	Crystal growth of phosphor perovskite titanate thin films under excimer laser irradiation. Applied Physics A: Materials Science and Processing, 2008, 93, 51-55.	1.1	10
70	Direct fabrication of metavanadate phosphor films on organic substrates for white-light-emitting devices. Nature Materials, 2008, 7, 735-740.	13.3	123
71	Electron spin resonance across the charge-ordering transition in $YBaMn_2$ Physical Review B, 2008, 78, .	1.1	13
72	Preparation and Characterization of Epitaxial VO ₂ Films on Sapphire Using Postepitaxial Topotaxy Route via Epitaxial V ₂ O ₃ Films. Japanese Journal of Applied Physics, 2008, 47, 1022-1027.	0.8	37

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73	Epitaxial Growth of La _{0.7} Ba _{0.3} MnO ₃ Thin Films on SrTiO ₃ and LaAlO ₃ Substrates by Metal-Organic Deposition. Japanese Journal of Applied Physics, 2007, 46, 2530-2533.	0.8	4
74	Low-Temperature Fabrication of Red Phosphor Ca _{0.997} Pr _{0.002} TiO ₃ Thin Film Using Excimer Laser Assisted Metal Organic Deposition. Japanese Journal of Applied Physics, 2007, 46, L365-L368.	0.8	23
75	Structural and physical property of A-site ordered perovskite manganite LaBaMn ₂ O ₆ thin film on SrTiO ₃ (0 0 1). Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 144, 104-108.	1.7	5
76	Singlet Ground State and Magnetic Interactions in New Spin Dimer System Ba ₃ Cr ₂ O ₈ . Journal of the Physical Society of Japan, 2006, 75, 054706.	0.7	56
77	Structures and Electromagnetic Properties of the A-site Ordered Perovskite Manganite. , 2005, , 273-294.		3
78	New A-site Ordered Perovskite Cobaltite LaBaCo ₂ O ₆ : Synthesis, Structure, Physical Property and Cation Order Disorder Effect. Journal of the Physical Society of Japan, 2005, 74, 1572-1577.	0.7	78
79	Novel structures and electromagnetic properties of the A-site-ordered/disordered manganites RBaMn ₂ O ₆ /R _{0.5} Ba _{0.5} MnO ₃ (R = Y and rare earth elements). Journal of Physics Condensed Matter, 2004, 16, S573-S583.	0.7	46
80	Anomalous octahedral distortion and multiple phase transitions in the metal-ordered manganite YBaMn ₂ O ₆ . Journal of Solid State Chemistry, 2004, 177, 987-999.	1.4	47
81	A-site Randomness Effect on Structural and Physical Properties of Ba-based Perovskite Manganites. Journal of the Physical Society of Japan, 2004, 73, 2283-2291.	0.7	93
82	Structural and Physical Properties of A-site Ordered/Disordered Perovskite Manganites RBaMn ₂ O ₆ /R _{0.5} Ba _{0.5} MnO ₃ . Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2004, 51, 869-874.	0.1	0
83	New Stacking Variations of the Charge and Orbital Ordering in the Metal-Ordered Manganite YBaMn ₂ O ₆ . Journal of the Physical Society of Japan, 2003, 72, 241-244.	0.7	46
84	Structures and physical properties of metal-ordered manganites RBaMn ₂ O ₆ (R:Y and rare earth) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	1.3	6
85	Ground State Properties of the A-site Ordered Manganites, RBaMn ₂ O ₆ (R= La, Pr and Nd). Journal of the Physical Society of Japan, 2003, 72, 3237-3242.	0.7	91
86	Structures and Electromagnetic Properties of New Metal-Ordered Manganites: RBaMn ₂ O ₆ (R=Y and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.7	100
87	Successive phase transitions in a metal-ordered manganite perovskite YBaMn ₂ O ₆ . Journal of Physics and Chemistry of Solids, 2002, 63, 913-916.	1.9	71
88	Effective-Time of Pulsed Photothermal Heating for Polycrystalline Nucleation of Perovskite Oxide Films from an Amorphous Matrix. Applied Physics Express, 0, 2, 023001.	1.1	31