

hiroshi takashima

List of Publications by Year in descending order

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76
papers

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citations

516710

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76
all docs

76
docs citations

76
times ranked

1055
citing authors

#	ARTICLE	IF	CITATIONS
1	Origin of zero-bias conductance peaks in high-T _c superconductors. <i>Physical Review B</i> , 1995, 51, 1350-1353.	3.2	369
2	Tunneling spectroscopy of superconducting Nd _{1.85} Ce _{0.15} CuO ₄ . <i>Physical Review B</i> , 1998, 57, 8680-8686.	3.2	107
3	Low-Driving Voltage Electroluminescence in Perovskite Films. <i>Advanced Materials</i> , 2009, 21, 3699-3702.	21.0	98
4	TUNNELING SPECTROSCOPY AND PAIRING SYMMETRY OF THE HIGH-T _c SUPERCONDUCTORS. <i>Journal of Physics and Chemistry of Solids</i> , 1998, 59, 2034-2039.	4.0	50
5	Nanosheet Seed-Layer Assists Oriented Growth of Highly Luminescent Perovskite Films. <i>Chemistry of Materials</i> , 2009, 21, 21-26.	6.7	47
6	Red photoluminescence in praseodymium-doped titanate perovskite films epitaxially grown by pulsed laser deposition. <i>Applied Physics Letters</i> , 2006, 89, 261915.	3.3	45
7	Photoluminescence from Epitaxial Films of Perovskite-type Alkaline-earth Stannates. <i>Applied Physics Express</i> , 2008, 1, 015003.	2.4	29
8	Tunneling spectroscopy of d-wave superconductors. <i>Journal of Physics and Chemistry of Solids</i> , 1995, 56, 1721-1723.	4.0	27
9	Preparation of parallel capacitor of epitaxial SrTiO ₃ film with a single-crystal-like behavior. <i>Applied Physics Letters</i> , 2003, 83, 2883-2885.	3.3	27
10	SQUID-NDE method on damaged area and damage degree of defects in composite materials. <i>IEEE Transactions on Applied Superconductivity</i> , 2003, 13, 207-210.	1.7	26
11	Surface treatment- and calcination temperature-dependent adsorption of methyl orange molecules in wastewater on self-standing alumina nanofiber films. <i>Journal of Materials Chemistry</i> , 2011, 21, 14984.	6.7	24
12	Electrical voltage manipulation of ferromagnetic microdomain structures in a ferromagnetic/ferroelectric hybrid structure. <i>Journal of Applied Physics</i> , 2007, 101, 09F512.	2.5	22
13	Electroluminescence near interfaces between (Ca,Sr)TiO ₃ :Pr phosphor and SnO ₂ :Sb transparent conductor thin films prepared by sol-gel and spin-coating methods. <i>Journal of Luminescence</i> , 2014, 149, 133-137.	3.1	21
14	A computational search for wurtzite-structured ferroelectrics with low coercive voltages. <i>APL Materials</i> , 2020, 8, .	5.1	19
15	Single crystal growth of superconducting La _{2-x} Ba _x CuO ₄ by TSFZ method. <i>Physica C: Superconductivity and Its Applications</i> , 1993, 209, 442-448.	1.2	17
16	Non-contact SQUID-NDT method using a ferrite core for carbon-fibre composites. <i>Superconductor Science and Technology</i> , 2002, 15, 1728-1732.	3.5	17
17	Control of Step Arrays on Normal and Vicinal SrTiO ₃ (100) Substrates. <i>Japanese Journal of Applied Physics</i> , 1998, 37, L1014-L1016.	1.5	16
18	Photo- and cathodoluminescence of Eu ³⁺ or Tb ³⁺ doped CaZrO ₃ films prepared by pulsed laser deposition. <i>Optical Materials</i> , 2017, 73, 504-508.	3.6	15

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19	HTS-dcSQUID gradiometer for nondestructive evaluation. IEEE Transactions on Applied Superconductivity, 1999, 9, 4393-4396.	1.7	14
20	Oxygen Diffusion and Nonstoichiometry in BiFeO ₃ . Inorganic Chemistry, 2013, 52, 12806-12810.	4.0	14
21	UV cathodoluminescence of Gd ³⁺ -doped and Gd ³⁺ ;Pr ³⁺ -co-doped YAlO ₃ epitaxial thin films. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 703-706.	1.8	14
22	Atomic-Scale Observation of Titanium-Ion Shifts in Barium Titanate Nanoparticles: Implications for Ferroelectric Applications. ACS Applied Nano Materials, 2019, 2, 5761-5768.	5.0	14
23	Capacitance temperature sensor using epitaxial SrTiO ₃ film with a single-crystal-like behavior. Thin Solid Films, 2005, 486, 145-148.	1.8	13
24	Orientation dependence of tunneling spectra in YBCO and NCCO. Physica C: Superconductivity and Its Applications, 1997, 282-287, 1485-1486.	1.2	12
25	Fabrication of boehmite and Al ₂ O ₃ nonwovens from boehmite nanofibres and their potential as the sorbent. Journal of Materials Chemistry, 2012, 22, 21225.	6.7	11
26	Development of intrinsic surfaces, and their electronic structures and stability of non-c-axis YBCO epitaxial films. IEEE Transactions on Applied Superconductivity, 1997, 7, 2161-2164.	1.7	10
27	Detection of internal cracks and delamination in carbon-fiber-reinforced plastics using SQUID-NDI system. Physica C: Superconductivity and Its Applications, 2002, 372-376, 267-270.	1.2	10
28	Growth and superconductivity of niobium titanium alloy thin films on strontium titanate (001) single-crystal substrates for superconducting joints. Scientific Reports, 2018, 8, 15135.	3.3	10
29	Structure and Dielectric Behavior of Epitaxially Grown SrTiO ₃ Film between YBa ₂ Cu ₃ O _{7-δ} Electrodes. Japanese Journal of Applied Physics, 2004, 43, L170-L172.	1.5	9
30	Adsorption of Anionic Nanosheets from Their Dilute Colloidal Suspensions onto Gas-Liquid Interfaces with and without a Langmuir Film of Cationic Surfactant. Langmuir, 2010, 26, 2514-2520.	3.5	9
31	Ultrafast hydrothermal synthesis of Pr-doped Ca _{0.6} Sr _{0.4} TiO ₃ red phosphor nanoparticles using corrosion resistant microfluidic devices with Ti-lined structure under high-temperature and high-pressure condition. Chemical Engineering Journal, 2014, 239, 360-363.	12.7	9
32	Near-infrared luminescence in perovskite BaSnO ₃ epitaxial films. Applied Physics Letters, 2017, 111, 091903.	3.3	9
33	Regulated Epitaxy of YBa ₂ Cu ₃ O _{7-δ} by Atomic Control of Step Arrays on Vicinal SrTiO ₃ (100) Substrates. Japanese Journal of Applied Physics, 1999, 38, L1499-L1501.	1.5	8
34	Nonlinear Electrical Properties of Thin Films of a Light-Emitting Perovskite-Type Oxide Pr _{0.002} (Ca _{0.6} Sr _{0.4}) _{0.997} TiO ₃ . Procedia Engineering, 2012, 36, 388-395.	1.2	8
35	Effects of doping by aluminum or lanthanum on the electrical and electroluminescence properties of Ca _{0.6} Sr _{0.4} TiO ₃ :Pr thin films. Journal of Luminescence, 2019, 207, 424-429.	3.1	8
36	Large dielectric constant arising from space-charge polarization in a SrTiO ₃ thin film grown on an YBa ₂ Cu ₃ O _{7-δ} layer. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, R152-R154.	1.8	7

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37	Capacitance thermometer made of oxygen isotope-exchanged strontium titanate perovskite. Applied Physics Letters, 2006, 88, 082906.	3.3	7
38	Development of an NDE method using SQUIDs for the reconstruction of defect shapes. IEEE Transactions on Applied Superconductivity, 2001, 11, 1311-1314.	1.7	6
39	Fabrication of High-Quality YBa ₂ Cu ₃ O _{7-δ} Multilayer Structure Using Chemical Mechanical Planarization for Superconducting Quantum Interference Device Gradiometer. Japanese Journal of Applied Physics, 2002, 41, L1062-L1065.	1.5	6
40	Capacitance Temperature Sensor Using Ferroelectric (Sr _{0.95} Ca _{0.05})TiO ₃ Perovskite. Ferroelectrics, 2006, 331, 141-145.	0.6	6
41	Room-temperature growth of thin films of niobium on strontium titanate (0 \times 0 \times 1) single-crystal substrates for superconducting joints. Applied Surface Science, 2018, 444, 71-74.	6.1	6
42	Electrical and electroluminescence properties of Ca _{0.6} Sr _{0.4} TiO ₃ :Pr thin film: Anomalous current and luminance relaxation. Journal of Luminescence, 2018, 200, 175-180.	3.1	6
43	Hydrothermal synthesis of perovskite metal oxide nanoparticles in supercritical water. Ferroelectrics, 2019, 539, 1-8.	0.6	6
44	Improvement of SrTiO ₃ thin film surface polished by chemical mechanical planarization for HTS multilayer device. IEEE Transactions on Applied Superconductivity, 1999, 9, 3464-3467.	1.7	5
45	Fabrication of grain boundary Josephson junction on top layer of YBCO multilayer using chemical mechanical planarization. Physica C: Superconductivity and Its Applications, 2003, 392-396, 1367-1372.	1.2	5
46	Dielectric properties of SrTiO ₃ thin film prepared in a mixture of 18O ₂ and 16O ₂ gas. Journal of Alloys and Compounds, 2008, 449, 48-51.	5.5	5
47	Self-standing microporous films of arrayed alumina nano-fibers including Schiff base molecules: effect of the environment around the molecules on their photo-luminescence. Journal of Materials Chemistry, 2012, 22, 9738.	6.7	5
48	Surface morphology study of a SrTiO ₃ thin film in a multilayer structure treated by chemical-mechanical polishing. Journal of Crystal Growth, 2005, 283, 163-169.	1.5	4
49	Frequency Dependence of Dielectric Constant of Strontium Titanate Films with Single-Crystal-Like Behavior. Ferroelectrics, 2006, 335, 45-50.	0.6	4
50	Preparation of γ -alumina nanoparticles with various shapes via hydrothermal phase transformation under supercritical water conditions. IOP Conference Series: Materials Science and Engineering, 2013, 47, 012045.	0.6	4
51	Preparation and Photoluminescence Property of Praseodymium Doped Calcium Titanate Nanocrystals. ECS Transactions, 2013, 50, 19-24.	0.5	4
52	Surface morphology and dielectric behavior of perovskite SrTiO ₃ thin film in heterostructure electroluminescence devices. Current Applied Physics, 2017, 17, 657-660.	2.4	4
53	Thin-film perovskite electroluminescence with BaTiO ₃ films as insulating layers. Ferroelectrics, 2017, 512, 100-104.	0.6	4
54	Synthesis of praseodymium-ion-doped perovskite nanophosphor in supercritical water. Materials Research Express, 2018, 5, 055034.	1.6	4

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55	Ultraviolet penetration depth of phosphor Pr-doped Ca _{0.6} Sr _{0.4} TiO ₃ epitaxial film. <i>Ceramics International</i> , 2019, 45, 21011-21014.	4.8	4
56	Low-Temperature Scanning Tunneling Spectroscopy of a-Axis-Oriented PrBa ₂ Cu ₃ O _y Films on YBa ₂ Cu ₃ O _x . <i>Japanese Journal of Applied Physics</i> , 1995, 34, 89-92.	1.5	3
57	Control of surface electronic structure of high T _c superconducting films for Josephson junctions and electron spectroscopy. <i>IEEE Transactions on Applied Superconductivity</i> , 1999, 9, 1704-1707.	1.7	3
58	Enhancement of Quantum Ferroelectricity in SrTiO ₃ Thin Film. <i>Applied Physics Express</i> , 2011, 4, 091501.	2.4	3
59	Preparation of Rare-Earth Doped Zirconia Nanoparticles via Supercritical Hydrothermal Method for Luminescence Properties. <i>Key Engineering Materials</i> , 2012, 512-515, 59-64.	0.4	3
60	Oriented growth of luminescent strontium stannate films using a unilamellar nanosheet seed-layer. <i>Thin Solid Films</i> , 2012, 522, 100-103.	1.8	3
61	Preparation of p-type semiconductor perovskite La _{1-x} Sr _x CoO ₃ films and their p-n heterostructure devices. <i>Applied Surface Science</i> , 2017, 422, 869-872.	6.1	3
62	Non-destructive Detection of Defects in Carbon Fiber-Reinforced Carbon Matrix Composites Using SQUID. <i>IEICE Transactions on Electronics</i> , 2005, E88-C, 180-187.	0.6	3
63	Tunneling spectroscopy and symmetries in YBCO and NCCO. <i>Physica C: Superconductivity and Its Applications</i> , 1997, 282-287, 1477-1478.	1.2	2
64	Capacitance thermometer using Ba _x Sr _{1-x} TiO ₃ solid solutions. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006, 203, 2546-2550.	1.8	2
65	Properties of Boehmite AlO(OH) Nanoparticles as the Coatings and Fillers. <i>Key Engineering Materials</i> , 2010, 512-515, 604-608.	0.4	2
66	Development of Dielectric X-Ray Microcalorimeter. <i>Journal of Low Temperature Physics</i> , 2012, 167, 435-441.	1.4	2
67	Preparation of YBa ₂ Cu ₃ O _{7-δ} and La _{1.85} Sr _{0.15} CuO ₄ Bilayer Structure for Superconducting Connection. <i>IEEE Transactions on Applied Superconductivity</i> , 2018, 28, 1-4.	1.7	2
68	Time dependence of current density, luminance, and efficiency under dc voltages for the thin-film electroluminescent device containing praseodymium and aluminum co-doped perovskite titanate phosphor. <i>Japanese Journal of Applied Physics</i> , 2019, 58, SFFB01.	1.5	2
69	Investigation of Temperature Dependence of Microwave-Induced Characteristics of a NbN Josephson Junction Array. <i>IEEE Transactions on Applied Superconductivity</i> , 2005, 15, 205-208.	1.7	1
70	Preparation and luminescence properties of Pr, Al doped SrTiO ₃ thin films. <i>Ferroelectrics</i> , 2019, 539, 153-158.	0.6	1
71	Electroluminescence in perovskite oxide nanocrystals. <i>AIP Advances</i> , 2020, 10, .	1.3	1
72	Evidence for d-wave symmetry in high-T _c superconductors based on tunneling theory and STM experiment. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 235-240, 1911-1912.	1.2	0

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73	Influence of a degraded SrTiO ₃ layer at the YBa ₂ Cu ₃ O _{7-δ} /SrTiO ₃ interface on the dielectric behavior at cryogenic temperature. <i>Cryogenics</i> , 2005, 45, 300-303.	1.7	0
74	AFM study of SrTiO ₃ and YBa ₂ Cu ₃ O _{7-δ} multilayer surface treated with chemical mechanical polishing process. <i>Journal of Physics: Conference Series</i> , 2006, 43, 325-328.	0.4	0
75	Photoluminescent Properties and Local Structure of Tb Doped Fibrous Alumina. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 1731-1738.	3.2	0
76	Role of Pr ³⁺ ions as hole-trapping centers for the electroluminescence of (Ca _{0.6} Sr _{0.4}) _{0.998} Pr _{0.002} Ti _{0.9} Al _{0.1} O _{3δ} thin films. <i>Japanese Journal of Applied Physics</i> , 2020, 59, 092005.	10.3	36