

Hiroshi Takashima

List of Publications by Year in descending order

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59
papers

1,335
citations

482844

16
h-index

340881

36
g-index

60
all docs

60
docs citations

60
times ranked

1448
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.	3.3	372
2	Behavior of class-level landscape metrics across gradients of class aggregation and area. <i>Landscape Ecology</i> , 2004, 19, 435-455.	4.2	275
3	Low-Driving Voltage Electroluminescence in Perovskite Films. <i>Advanced Materials</i> , 2009, 21, 3699-3702.	24.3	99
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.	4.1	51
5	Nanosheet Seed-Layer Assists Oriented Growth of Highly Luminescent Perovskite Films. <i>Chemistry of Materials</i> , 2009, 21, 21-26.	7.1	47
6	Red photoluminescence in praseodymium-doped titanate perovskite films epitaxially grown by pulsed laser deposition. <i>Applied Physics Letters</i> , 2006, 89, 261915.	3.2	46
7	Photoluminescence from Epitaxial Films of Perovskite-type Alkaline-earth Stannates. <i>Applied Physics Express</i> , 2008, 1, 015003.	2.4	29
8	Preparation of parallel capacitor of epitaxial SrTiO ₃ film with a single-crystal-like behavior. <i>Applied Physics Letters</i> , 2003, 83, 2883-2885.	3.2	27
9	A computational search for wurtzite-structured ferroelectrics with low coercive voltages. <i>APL Materials</i> , 2020, 8, .	4.8	27
10	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	25
11	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.	3.2	22
12	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
13	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
14	Atomic-Scale Observation of Titanium-Ion Shifts in Barium Titanate Nanoparticles: Implications for Ferroelectric Applications. <i>ACS Applied Nano Materials</i> , 2019, 2, 5761-5768.	5.2	17
15	Control of Step Arrays on Normal and Vicinal SrTiO ₃ (100) Substrates. <i>Japanese Journal of Applied Physics</i> , 1998, 37, L1014-L1016.	1.6	16
16	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.	3.7	16
17	Capacitance temperature sensor using epitaxial SrTiO ₃ film with a single-crystal-like behavior. <i>Thin Solid Films</i> , 2005, 486, 145-148.	1.9	14
18	Oxygen Diffusion and Nonstoichiometry in BiFeO ₃ . <i>Inorganic Chemistry</i> , 2013, 52, 12806-12810.	4.2	14

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19	UV cathodoluminescence of Gd ³⁺ -doped and Gd ³⁺ ;Pr ³⁺ -co-doped YAlO ₃ epitaxial thin films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 703-706.	1.9	14
20	Fabrication of boehmite and Al ₂ O ₃ nonwovens from boehmite nanofibres and their potential as the sorbent. <i>Journal of Materials Chemistry</i> , 2012, 22, 21225.	6.7	11
21	Growth and superconductivity of niobium titanium alloy thin films on strontium titanate (001) single-crystal substrates for superconducting joints. <i>Scientific Reports</i> , 2018, 8, 15135.	3.4	11
22	Structure and Dielectric Behavior of Epitaxially Grown SrTiO ₃ Film between YBa ₂ Cu ₃ O _{7-δ} Electrodes. <i>Japanese Journal of Applied Physics</i> , 2004, 43, L170-L172.	1.6	9
23	Adsorption of Anionic Nanosheets from Their Dilute Colloidal Suspensions onto Gas-Liquid Interfaces with and without a Langmuir Film of Cationic Surfactant. <i>Langmuir</i> , 2010, 26, 2514-2520.	3.7	9
24	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. <i>Chemical Engineering Journal</i> , 2014, 239, 360-363.	13.0	9
25	Near-infrared luminescence in perovskite BaSnO ₃ epitaxial films. <i>Applied Physics Letters</i> , 2017, 111, 091903.	3.2	9
26	Regulated Epitaxy of YBa ₂ Cu ₃ O _{7-δ} by Atomic Control of Step Arrays on Vicinal SrTiO ₃ (100) Substrates. <i>Japanese Journal of Applied Physics</i> , 1999, 38, L1499-L1501.	1.6	8
27	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 . <i>Procedia Engineering</i> , 2012, 36, 388-395.	1.2	8
28	Hydrothermal synthesis of perovskite metal oxide nanoparticles in supercritical water. <i>Ferroelectrics</i> , 2019, 539, 1-8.	0.6	8
29	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. <i>Journal of Luminescence</i> , 2019, 207, 424-429.	3.2	8
30	Capacitance thermometer made of oxygen isotope-exchanged strontium titanate perovskite. <i>Applied Physics Letters</i> , 2006, 88, 082906.	3.2	7
31	Room-temperature growth of thin films of niobium on strontium titanate ($\epsilon=1$) single-crystal substrates for superconducting joints. <i>Applied Surface Science</i> , 2018, 444, 71-74.	6.3	7
32	Fabrication of High-Quality YBa ₂ Cu ₃ O _{7-δ} Multilayer Structure Using Chemical Mechanical Planarization for Superconducting Quantum Interference Device Gradiometer. <i>Japanese Journal of Applied Physics</i> , 2002, 41, L1062-L1065.	1.6	6
33	Capacitance Temperature Sensor Using Ferroelectric (Sr _{0.95} Ca _{0.05})TiO ₃ Perovskite. <i>Ferroelectrics</i> , 2006, 331, 141-145.	0.6	6
34	Self-standing microporous films of arrayed alumina nano-fibers including Schiff base molecules: effect of the environment around the molecules on their photo-luminescence. <i>Journal of Materials Chemistry</i> , 2012, 22, 9738.	6.7	6
35	Electrical and electroluminescence properties of Ca _{0.6} Sr _{0.4} TiO ₃ :Pr thin film: Anomalous current and luminance relaxation. <i>Journal of Luminescence</i> , 2018, 200, 175-180.	3.2	6
36	Low-Temperature Direct Synthesis of Multilayered h-BN without Catalysts by Inductively Coupled Plasma-Enhanced Chemical Vapor Deposition. <i>ACS Omega</i> , 2023, 8, 5497-5505.	3.6	6

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37	Fabrication of grain boundary Josephson junction on top layer of YBCO multilayer using chemical mechanical planarization. <i>Physica C: Superconductivity and Its Applications</i> , 2003, 392-396, 1367-1372.	1.2	5
38	Thin-film perovskite electroluminescence with BaTiO ₃ films as insulating layers. <i>Ferroelectrics</i> , 2017, 512, 100-104.	0.6	5
39	Preparation of Rare-Earth Doped Zirconia Nanoparticles via Supercritical Hydrothermal Method for Luminescence Properties. <i>Key Engineering Materials</i> , 0, 512-515, 59-64.	0.2	4
40	Preparation and Photoluminescence Property of Praseodymium Doped Calcium Titanate Nanocrystals. <i>ECS Transactions</i> , 2013, 50, 19-24.	0.6	4
41	Surface morphology and dielectric behavior of perovskite SrTiO ₃ thin film in heterostructure electroluminescence devices. <i>Current Applied Physics</i> , 2017, 17, 657-660.	2.5	4
42	Synthesis of praseodymium-ion-doped perovskite nanophosphor in supercritical water. <i>Materials Research Express</i> , 2018, 5, 055034.	1.7	4
43	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.	4.9	4
44	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.	1.6	3
45	Enhancement of Quantum Ferroelectricity in SrTi ₁₈ O ₃ Thin Film. <i>Applied Physics Express</i> , 2011, 4, 091501.	2.4	3
46	Oriented growth of luminescent strontium stannate films using a unilamellar nanosheet seed-layer. <i>Thin Solid Films</i> , 2012, 522, 100-103.	1.9	3
47	Preparation of p-type semiconductor perovskite La ¹⁸ Sr CoO ₃ films and their p-n heterostructure devices. <i>Applied Surface Science</i> , 2017, 422, 869-872.	6.3	3
48	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
49	Superconducting Flexible Organic/Inorganic Hybrid Compound Adhesives. <i>ACS Omega</i> , 2022, 7, 47405-47410.	3.6	3
50	Properties of Boehmite AlO(OH) Nanoparticles as the Coatings and Fillers. <i>Key Engineering Materials</i> , 0, 512-515, 604-608.	0.2	2
51	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
52	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.	1.6	2
53	Preparation and luminescence properties of Pr, Al doped SrTiO ₃ thin films. <i>Ferroelectrics</i> , 2019, 539, 153-158.	0.6	1
54	Electroluminescence in perovskite oxide nanocrystals. <i>AIP Advances</i> , 2020, 10, .	1.3	1

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55	Influence of a degraded SrTiO ₃ layer at the YBa ₂ Cu ₃ O _{7-x} /SrTiO ₃ interface on the dielectric behavior at cryogenic temperature. Cryogenics, 2005, 45, 300-303.	1.7	0
56	Photoluminescent Properties and Local Structure of Tb Doped Fibrous Alumina. Bulletin of the Chemical Society of Japan, 2018, 91, 1731-1738.	3.3	0
57	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 ₃ thin films. Japanese Journal of Applied Physics, 2020, 59, 092005.	1.0	0
58	Hexagonal Boron Nitride Seed Layer-Assisted van der Waals Growth of BaSnO ₃ Perovskite Films. ACS Omega, 0, , .	3.6	0
59	Superconducting Connections Between NbTi Thin Films With NbN Paste. IEEE Transactions on Applied Superconductivity, 2024, 34, 1-4.	1.7	0