

Kenji Itaka

List of Publications by Year in descending order

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66
papers

1,175
citations

516215

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docs citations

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times ranked

1651
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Mobility C60 Field-Effect Transistors Fabricated on Molecular- Wetting Controlled Substrates. <i>Advanced Materials</i> , 2006, 18, 1713-1716.	11.1	213
2	High-Performance Organic Field-Effect Transistors Based on π -Extended Tetrathiafulvalene Derivatives. <i>Journal of the American Chemical Society</i> , 2005, 127, 10142-10143.	6.6	156
3	High-Throughput Characterization of Metal Electrode Performance for Electric-Field-Induced Resistance Switching in Metal/Pr _{0.7} Ca _{0.3} MnO ₃ /Metal Structures. <i>Advanced Materials</i> , 2007, 19, 1711-1713.	11.1	88
4	Combinatorial synthesis of Li-doped NiO thin films and their transparent conducting properties. <i>Applied Surface Science</i> , 2006, 252, 2524-2528.	3.1	82
5	Rapid synthesis and characterization of (Ca _{1-x} Ba _x) ₃ Co ₄ O ₉ thin films using combinatorial methods. <i>Applied Surface Science</i> , 2002, 197-198, 442-447.	3.1	58
6	Fabrication of Highly Oriented Rubrene Thin Films by the Use of Atomically Finished Substrate and Pentacene Buffer Layer. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 3740-3742.	0.8	57
7	Development of a high-throughput thermoelectric screening tool for combinatorial thin film libraries. <i>Applied Surface Science</i> , 2007, 254, 765-767.	3.1	39
8	Molecular Layer-by-Layer Growth of C ₆₀ Thin Films by Continuous-Wave Infrared Laser Deposition. <i>Applied Physics Express</i> , 2008, 1, 015005.	1.1	39
9	Divergent Nematic Susceptibility near the Pseudogap Critical Point in a Cuprate Superconductor. <i>Journal of the Physical Society of Japan</i> , 2020, 89, 064707.	0.7	36
10	Pulsed laser deposition of oxide gate dielectrics for pentacene organic field-effect transistors. <i>Thin Solid Films</i> , 2005, 486, 218-221.	0.8	30
11	Combinatorial screening of halide perovskite thin films and solar cells by mask-defined IR laser molecular beam epitaxy. <i>Science and Technology of Advanced Materials</i> , 2017, 18, 307-315.	2.8	26
12	Asymmetric Field Profile in Bose Glass Phase of Irradiated YBa ₂ Cu ₃ O _{7-δ} : Loss of Interlayer Coherence around 1/3 of Matching Field. <i>Physical Review Letters</i> , 2001, 86, 5144-5147.	2.9	20
13	High-speed evaluation of thermoelectric materials using multi-channel measurement system. <i>Magyar Árvad Kémlemeznyek</i> , 2002, 69, 1051-1058.	1.4	19
14	The First Observation of ¹ H-NMR Spectrum of Pentacene. <i>Japanese Journal of Applied Physics</i> , 2004, 43, L315-L316.	0.8	19
15	Combinatorial Pulsed Laser Deposition of Pentacene Films for Field Effect Devices. <i>Macromolecular Rapid Communications</i> , 2004, 25, 334-338.	2.0	17
16	Rapid Synthesis and Scanning Probe Analysis of Ba _x Sr _{1-x} TiO ₃ Composition Spread Films on a Temperature Gradient Si(100) Substrate. <i>Japanese Journal of Applied Physics</i> , 2002, 41, L149-L151.	0.8	16
17	Combinatorial Physical Vapor Deposition of π -Conjugated Organic Thin Film Libraries. <i>Macromolecular Rapid Communications</i> , 2004, 25, 196-203.	2.0	14
18	In-situ Fabrication and Characterization System Developed for High Performance Organic Semiconductor Devices. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 3757-3759.	0.8	13

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19	Pulsed laser deposition of c * axis oriented pentacene films. Applied Physics A: Materials Science and Processing, 2004, 79, 875-877.	1.1	12
20	Combinatorial pulsed laser deposition and thermoelectricity of (La _{1-x} Cax)VO ₃ composition-spread films. Science and Technology of Advanced Materials, 2004, 5, 543-547.	2.8	12
21	Molecular Beam Epitaxy of Highly Oriented Pentacene Thin Films on an Atomically Flat Sapphire Substrate. Japanese Journal of Applied Physics, 2005, 44, 6249-6251.	0.8	12
22	Composition-spread thin films of pentacene and 6,13-pentacenequinone fabricated by using continuous-wave laser molecular beam epitaxy. Applied Surface Science, 2008, 254, 2336-2341.	3.1	12
23	Evidence for planar pinning in heavily Pb-substituted Bi ₂ Sr ₂ CaCu ₂ O _{8+y} single crystals. Physical Review B, 1999, 60, R9951-R9954.	1.1	11
24	Combinatorial fabrication and magnetic properties of homoepitaxial Co and Li co-doped NiO thin-film nanostructures. Journal of Magnetism and Magnetic Materials, 2009, 321, 3595-3599.	1.0	11
25	Diameter dependence of 1/f noise in carbon nanotube field effect transistors using noise spectroscopy. Applied Surface Science, 2013, 267, 101-105.	3.1	11
26	Combinatorial approach to the fabrication of organic thin films. Applied Surface Science, 2006, 252, 2562-2567.	3.1	10
27	Continuous wave infrared laser deposition of organic thin films. Journal of Physics: Conference Series, 2007, 59, 520-525.	0.3	10
28	Pulsed Laser Epitaxy and Magnetic Properties of Single Phase Y-Type Magnetoplumbite Thin Films. Japanese Journal of Applied Physics, 2001, 40, L1343-L1345.	0.8	9
29	Magneto-optical imaging of vortex lattice melting transition in Bi ₂ Sr ₂ CaCu ₂ O _{8+y} . Physica C: Superconductivity and Its Applications, 2001, 357-360, 568-571.	0.6	8
30	Direct Carbothermic Silica Reduction from Purified Silica to Solar-Grade Silicon. Journal of Physics: Conference Series, 2015, 596, 012015.	0.3	8
31	Metal-insulator-metal transition in Sr ₂ Rh _{1-x} Ru _x O ₄ (O ₂) _{1/2} . Applied Physics Letters, 2002, 81, 4955-4957.		7
32	Rapid characterization of thermoelectric properties of composition spread (La _{1-x} Cax)VO ₃ films. Applied Surface Science, 2004, 223, 20-23.	3.1	7
33	Electrical characterization of single grain and single grain boundary of pentacene thin film by nano-scale electrode array. Current Applied Physics, 2006, 6, 109-113.	1.1	7
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37	Sr ₂ Rh _{1-x} Ru _x O ₄ (0 ≤ x ≤ 1) composition-spread film growth on a temperature-gradient substrate by pulsed laser deposition. Applied Surface Science, 2004, 223, 264-267.	3.1	5
38	Fabrication of Planar Nano-gap Electrodes for Single Molecule Evaluation. Japanese Journal of Applied Physics, 2006, 45, 3766-3767.	0.8	5
39	Field-induced resistance switching at metal/perovskite manganese oxide interface. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 148, 13-15.	1.7	5
40	Gate voltage dependence of 1/f noise in carbon nanotubes with the different metal contacts. , 2013, , .		4
41	Vortex matter phase transitions under tilted fields in pristine and Pb-substituted Bi ₂ Sr ₂ CaCu ₂ O _{8+y} . Physica C: Superconductivity and Its Applications, 2000, 341-348, 1183-1184.	0.6	3
42	Vortex phase diagrams of Bi ₂ Sr ₂ CaCu ₂ O _{8+y} in tilted fields studied by a Hall probe. Physica C: Superconductivity and Its Applications, 2001, 357-360, 446-449.	0.6	3
43	Thermal diffusivity of (Ca _{1-x} Sr _x) ₃ Co ₄ O ₉ thin films using transient grating configuration. Journal of Materials Research, 2003, 18, 2473-2477.	1.2	3
44	Vacuum and Pressured Combinatorial Processings for Exploration of Environmental Catalysts. Topics in Catalysis, 2010, 53, 35-39.	1.3	3
45	Strong Pressure Effect in the Sublimation from Tetracene Single Crystals and Development of Surface Cleaning Technique for Organic Semiconductors. Applied Physics Express, 2011, 4, 021601.	1.1	3
46	Field-effect transistors of the block co-oligomers based on thiophene and pyridine. Thin Solid Films, 2012, 520, 4445-4448.	0.8	3
47	Optimization of the Granulation Binders of High-Purity Carbothermic Reduction for Solar-Grade Silicon. Materials Transactions, 2016, 57, 1936-1944.	0.4	3
48	Revised phase diagram of the high- T_c cuprate superconductor Pb-doped Bi ₂ Sr ₂ CaCu ₂ O _{8+y} . Physical Review B, 2022, 105, .	1.1	3
49	Vortex phase transitions in Bi ₂ Sr ₂ CaCu ₂ O _{8+y} in fields nearly parallel and perpendicular to the CuO ₂ plane. Physica C: Superconductivity and Its Applications, 2001, 364-365, 499-503.	0.6	2
50	Quick optimization of Y-type magnetoplumbite thin films growth by combinatorial pulsed laser deposition technique. Applied Surface Science, 2002, 197-198, 312-315.	3.1	2
51	Sharp metal-insulator transition in Sr(Ti _{1-x} V _x)O ₃ thin films on SrTiO ₃ substrates. Thin Solid Films, 2005, 486, 222-225.	0.8	2
52	Fabrication of combinatorial nm-planar electrode array for high throughput evaluation of organic semiconductors. Applied Surface Science, 2006, 252, 2568-2572.	3.1	2
53	Combinatorial Investigation of ZrO ₂ -Based Dielectric Materials for Dynamic Random-Access Memory Capacitors. Japanese Journal of Applied Physics, 2011, 50, 06GH12.	0.8	2
54	Effect of hydrogen radical on decomposition of chlorosilane source gases. Journal of Physics: Conference Series, 2013, 441, 012003.	0.3	2

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55	Programmable Persistent Interfacial Metallic State Induced by Frozen Ions in Inorganic "Glass Solid Electrolyte. <i>Advanced Functional Materials</i> , 2015, 25, 3043-3048.	7.8	2
56	Development of Real-Time Weight Monitoring System for the Carbothermic Reduction Process of Silica. <i>Materials Transactions</i> , 2016, 57, 1930-1935.	0.4	2
57	Novel Asymmetric Critical State in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ with Columnar Defects. <i>Journal of Low Temperature Physics</i> , 1999, 117, 1369-1373.	0.6	1
58	Peak effect and vortex channeling in heavily Pb-substituted $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+y}$ with planar defects. <i>Physica C: Superconductivity and Its Applications</i> , 2000, 341-348, 1265-1266.	0.6	1
59	Reduction of interlayer coherence around $1/3$ of matching field in Bose glass phase of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ with columnar defects. <i>Physica C: Superconductivity and Its Applications</i> , 2001, 357-360, 435-437.	0.6	1
60	Magneto-optical observations of vortex states under tilted fields in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+y}$. <i>Physica C: Superconductivity and Its Applications</i> , 2002, 378-381, 416-419.	0.6	1
61	Fabrication of Liquid Crystal Polymer Films and Their Passivation Effect for Organic Devices. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 4164-4166.	0.8	1
62	Design and development of an ultra-compact drum-shaped chamber for combinatorial pulsed laser deposition. <i>Applied Surface Science</i> , 2006, 252, 2461-2465.	3.1	1
63	Suppression of Fermi Level Pinning and Flat Band Voltage Shift by Inserting Diamond-Like Carbon at a High- k/SiO_2 Interface in a Gate Stack Structure. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 06GH03.	0.8	1
64	Study of Carbothermal Reduction of Silica, Alumina and Titania Under Argon Gas. <i>Springer Proceedings in Energy</i> , 2020, , 295-301.	0.2	1
65	Evidence for Planar Pinning in Heavily Pb-Doped $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+y}$ Single Crystals. , 1999, , 485-488.		1
66	Molecular-Wetting Control by Ultrasoother Pentacene Buffer for High-crystallinity Organic Field-Effect Transistors. <i>Materials Research Society Symposia Proceedings</i> , 2006, 965, 1.	0.1	0