

# Kenji Itaka

## List of Publications by Year in descending order

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66  
papers

1,175  
citations

516710

16  
h-index

395702

33  
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66  
all docs

66  
docs citations

66  
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.	21.0	213
2	High-Performance Organic Field-Effect Transistors Based on $\pi$ -Extended Tetrathiafulvalene Derivatives. <i>Journal of the American Chemical Society</i> , 2005, 127, 10142-10143.	13.7	156
3	High-Throughput Characterization of Metal Electrode Performance for Electric-Field-Induced Resistance Switching in Metal/Pr <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> /Metal Structures. <i>Advanced Materials</i> , 2007, 19, 1711-1713.	21.0	88
4	Combinatorial synthesis of Li-doped NiO thin films and their transparent conducting properties. <i>Applied Surface Science</i> , 2006, 252, 2524-2528.	6.1	82
5	Rapid synthesis and characterization of (Ca <sub>1-x</sub> Ba <sub>x</sub> ) <sub>3</sub> Co <sub>4</sub> O <sub>9</sub> thin films using combinatorial methods. <i>Applied Surface Science</i> , 2002, 197-198, 442-447.	6.1	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.	1.5	57
7	Development of a high-throughput thermoelectric screening tool for combinatorial thin film libraries. <i>Applied Surface Science</i> , 2007, 254, 765-767.	6.1	39
8	Molecular Layer-by-Layer Growth of C <sub>60</sub> Thin Films by Continuous-Wave Infrared Laser Deposition. <i>Applied Physics Express</i> , 2008, 1, 015005.	2.4	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.	1.6	36
10	Pulsed laser deposition of oxide gate dielectrics for pentacene organic field-effect transistors. <i>Thin Solid Films</i> , 2005, 486, 218-221.	1.8	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.	6.1	26
12	Asymmetric Field Profile in Bose Glass Phase of Irradiated YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> : Loss of Interlayer Coherence around 1/3 of Matching Field. <i>Physical Review Letters</i> , 2001, 86, 5144-5147.	7.8	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 <sup>1</sup> H-NMR Spectrum of Pentacene. <i>Japanese Journal of Applied Physics</i> , 2004, 43, L315-L316.	1.5	19
15	Combinatorial Pulsed Laser Deposition of Pentacene Films for Field Effect Devices. <i>Macromolecular Rapid Communications</i> , 2004, 25, 334-338.	3.9	17
16	Rapid Synthesis and Scanning Probe Analysis of Ba <sub>x</sub> Sr <sub>1-x</sub> TiO <sub>3</sub> Composition Spread Films on a Temperature Gradient Si(100) Substrate. <i>Japanese Journal of Applied Physics</i> , 2002, 41, L149-L151.	1.5	16
17	Combinatorial Physical Vapor Deposition of $\pi$ -Conjugated Organic Thin Film Libraries. <i>Macromolecular Rapid Communications</i> , 2004, 25, 196-203.	3.9	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.	1.5	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.	2.3	12
20	Combinatorial pulsed laser deposition and thermoelectricity of (La $_{1-x}$ Ca $_x$ )VO $_3$ composition-spread films. Science and Technology of Advanced Materials, 2004, 5, 543-547.	6.1	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.	1.5	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.	6.1	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.	3.2	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.	2.3	11
25	Diameter dependence of 1/f noise in carbon nanotube field effect transistors using noise spectroscopy. Applied Surface Science, 2013, 267, 101-105.	6.1	11
26	Combinatorial approach to the fabrication of organic thin films. Applied Surface Science, 2006, 252, 2562-2567.	6.1	10
27	Continuous wave infrared laser deposition of organic thin films. Journal of Physics: Conference Series, 2007, 59, 520-525.	0.4	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.	1.5	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.	1.2	8
30	Direct Carbothermic Silica Reduction from Purified Silica to Solar-Grade Silicon. Journal of Physics: Conference Series, 2015, 596, 012015.	0.4	8
31	Metal-insulator-metal transition in Sr $_2$ Rh $_1-x$ Ru $_x$ O $_4$ (0 $\leq$ x $\leq$ 1). Applied Physics Letters, 2002, 81, 4955-4957.		7
32	Rapid characterization of thermoelectric properties of composition spread (La $_{1-x}$ Ca $_x$ )VO $_3$ films. Applied Surface Science, 2004, 223, 20-23.	6.1	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.	2.4	7
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37	Sr <sub>2</sub> Rh <sub>1-x</sub> Ru <sub>x</sub> O <sub>4</sub> (0 ≤ x ≤ 1) composition-spread film growth on a temperature-gradient substrate by pulsed laser deposition. Applied Surface Science, 2004, 223, 264-267.	6.1	5
38	Fabrication of Planar Nano-gap Electrodes for Single Molecule Evaluation. Japanese Journal of Applied Physics, 2006, 45, 3766-3767.	1.5	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.	3.5	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 <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+y</sub> . Physica C: Superconductivity and Its Applications, 2000, 341-348, 1183-1184.	1.2	3
42	Vortex phase diagrams of Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+y</sub> in tilted fields studied by a Hall probe. Physica C: Superconductivity and Its Applications, 2001, 357-360, 446-449.	1.2	3
43	Thermal diffusivity of (Ca <sub>1-x</sub> Sr <sub>x</sub> ) <sub>3</sub> Co <sub>4</sub> O <sub>9</sub> thin films using transient grating configuration. Journal of Materials Research, 2003, 18, 2473-2477.	2.6	3
44	Vacuum and Pressured Combinatorial Processings for Exploration of Environmental Catalysts. Topics in Catalysis, 2010, 53, 35-39.	2.8	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.	2.4	3
46	Field-effect transistors of the block co-oligomers based on thiophene and pyridine. Thin Solid Films, 2012, 520, 4445-4448.	1.8	3
47	Optimization of the Granulation Binders of High-Purity Carbothermic Reduction for Solar-Grade Silicon. Materials Transactions, 2016, 57, 1936-1944.	1.2	3
48	Revised phase diagram of the high- $T_c$ cuprate superconductor Pb-doped $\text{Bi}_{2-x}\text{Pb}_x\text{Sr}_2\text{CaCu}_2\text{O}_{8+y}$ . Physical Review B, 2022, 105, .	3.2	3
49	Vortex phase transitions in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+y</sub> in fields nearly parallel and perpendicular to the CuO <sub>2</sub> plane. Physica C: Superconductivity and Its Applications, 2001, 364-365, 499-503.	1.2	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.	6.1	2
51	Sharp metal-insulator transition in Sr(Ti <sub>1-x</sub> V <sub>x</sub> )O <sub>3</sub> thin films on SrTiO <sub>3</sub> substrates. Thin Solid Films, 2005, 486, 222-225.	1.8	2
52	Fabrication of combinatorial nm-planar electrode array for high throughput evaluation of organic semiconductors. Applied Surface Science, 2006, 252, 2568-2572.	6.1	2
53	Combinatorial Investigation of ZrO <sub>2</sub> -Based Dielectric Materials for Dynamic Random-Access Memory Capacitors. Japanese Journal of Applied Physics, 2011, 50, 06GH12.	1.5	2
54	Effect of hydrogen radical on decomposition of chlorosilane source gases. Journal of Physics: Conference Series, 2013, 441, 012003.	0.4	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.	14.9	2
56	Development of Real-Time Weight Monitoring System for the Carbothermic Reduction Process of Silica. <i>Materials Transactions</i> , 2016, 57, 1930-1935.	1.2	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.	1.4	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.	1.2	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.	1.2	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.	1.2	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.	1.5	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.	6.1	1
63	Suppression of Fermi Level Pinning and Flat Band Voltage Shift by Inserting Diamond-Like Carbon at a High- $k/\text{SiO}_2$ Interface in a Gate Stack Structure. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 06GH03.	1.5	1
64	Study of Carbothermal Reduction of Silica, Alumina and Titania Under Argon Gas. <i>Springer Proceedings in Energy</i> , 2020, , 295-301.	0.3	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