Isao Ohkubo

List of Publications by Year
in descending order

81 papers	3,321 citations	201674 27 h-index	144013 57 g-index
82 all docs	82 docs citations	82 times ranked	3906 citing authors

#	Article	IF	Citations
1	Thermoelectric materials and applications for energy harvesting power generation. Science and Technology of Advanced Materials, 2018, 19, 836-862.	6.1	413
2	Structure and optical properties of ZnO/Mg0.2Zn0.8O superlattices. Applied Physics Letters, 1999, 75, 980-982.	3.3	377
3	High Mobility Thin Film Transistors with Transparent ZnO Channels. Japanese Journal of Applied Physics, 2003, 42, L347-L349.	1.5	267
4	Excitonic ultraviolet laser emission at room temperature from naturally made cavity in ZnO nanocrytal thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1998, 56, 239-245.	3.5	162
5	Thermal stability of supersaturated MgxZn1â^'xO alloy films and MgxZn1â^'xO/ZnO heterointerfaces. Applied Physics Letters, 1999, 75, 4088-4090.	3.3	142
6	Thickness-dependent electronic structure of ultrathin SrRuO3 films studied by in situ photoemission spectroscopy. Applied Physics Letters, 2005, 87, 162508.	3.3	123
7	Fabrication of alloys and superlattices based on ZnO towards ultraviolet laser. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1998, 56, 263-266.	3.5	118
8	Analysis of the polar direction of GaN film growth by coaxial impact collision ion scattering spectroscopy. Applied Physics Letters, 1999, 75, 674-676.	3.3	110
9	Trap-controlled space-charge-limited current mechanism in resistance switching at Alâ^•Pr0.7Ca0.3MnO3 interface. Applied Physics Letters, 2008, 92, .	3.3	106
10	In-plane and polar orientations of ZnO thin films grown on atomically flat sapphire. Surface Science, 1999, 443, L1043-L1048.	1.9	94
11	High-Throughput Characterization of Metal Electrode Performance for Electric-Field-Induced Resistance Switching in Metal/Pr0.7Ca0.3MnO3/Metal Structures. Advanced Materials, 2007, 19, 1711-1713.	21.0	88
12	Dielectric and optical properties of epitaxial rare-earth scandate films and their crystallization behavior. Applied Physics Letters, 2006, 88, 262906.	3.3	74
13	Band diagrams of spin tunneling junctions La0.6Sr0.4MnO3â^•Nb:SrTiO3 and SrRuO3â^•Nb:SrTiO3 determined by in situ photoemission spectroscopy. Applied Physics Letters, 2007, 90, 132123.	3.3	68
14	Evolution of transport and magnetic properties near the ferromagnetic quantum critical point in the seriesCaxSr1â^'xRuO3. Physical Review B, 2004, 70, .	3.2	62
15	Investigation of ZnO/sapphire interface and formation of ZnO nanocrystalline by laser MBE. Applied Surface Science, 2000, 159-160, 514-519.	6.1	59
16	Epitaxial growth and surface metallic nature of LaNiO3 thin films. Applied Physics Letters, 2008, 92, .	3.3	52
17	An improved continuous compositional-spread technique based on pulsed-laser deposition and applicable to large substrate areas. Review of Scientific Instruments, 2003, 74, 4058-4062.	1.3	49
18	Continuous composition-spread thin films of transition metal oxides by pulsed-laser deposition. Applied Surface Science, 2004, 223, 35-38.	6.1	49

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19	Ferromagnetic properties of epitaxial La2NiMnO6 thin films grown by pulsed laser deposition. Applied Physics Letters, 2009, 94, .	3.3	49
20	Interfacial chemical states of resistance-switching metal/Pr0.7Ca0.3MnO3 interfaces. Applied Physics Letters, 2010, 97, .	3.3	48
21	Electronic structure characterization of La2NiMnO6 epitaxial thin films using synchrotron-radiation photoelectron spectroscopy and optical spectroscopy. Applied Physics Letters, 2009, 94, .	3.3	43
22	Screening of transition (Y, Zr, Hf, V, Nb, Mo, and Ru) and rare-earth (La and Pr) elements as potential effective dopants for thermoelectric GeTe â€“ an experimental and theoretical appraisal. Journal of Materials Chemistry A, 2020, 8, 19805-19821.	10.3	43
23	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>A</mml:mi></mml:math>-site-driven ferroelectricity in strained ferromagnetic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">La</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">NiMnO</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:math>thin films. Phy	3.2	42
24	Two-Dimensional Layered Complex Nitrides as a New Class of Thermoelectric Materials. Chemistry of Materials, 2014, 26, 2532-2536.	6.7	39
25	High-throughput growth temperature optimization of ferroelectric SrxBa1â^’xNb2O6 epitaxial thin films using a temperature gradient method. Applied Physics Letters, 2004, 84, 1350-1352.	3.3	31
26	Anisotropic Anomalies of Thermoelectric Transport Properties and Electronic Structures in Layered Complex Nitrides AMN₂ (A = Na, Cu; M = Ta, Nb). Chemistry of Materials, 2015, 27, 7265-7275.	6.7	30
27	Heteroepitaxial growth of Î²-LiGaO2 thin films on ZnO. Journal of Applied Physics, 2002, 92, 5587-5589.	2.5	28
28	Determination of the infrared complex magnetoconductivity tensor in itinerant ferromagnets from Faraday and Kerr measurements. Physical Review B, 2007, 75, .	3.2	28
29	Ferromagnetism stabilization of ultrathin SrRuO3 films: Thickness-dependent physical properties. Journal of Applied Physics, 2006, 99, 08N505.	2.5	27
30	Formation of transition layers at metal/perovskite oxide interfaces showing resistive switching behaviors. Journal of Applied Physics, 2011, 110, 053707.	2.5	25
31	Spin-Filter Tunnel Junction with Matched Fermi Surfaces. Physical Review Letters, 2012, 109, 076602.	7.8	25
32	Coaxial impact-collision ion scattering spectroscopy analysis of ZnO thin films and single crystals. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1998, 56, 256-262.	3.5	24
33	Deposition of thermoelectric strontium hexaboride thin films by a low pressure CVD method. Journal of Crystal Growth, 2016, 449, 10-14.	1.5	22
34	Thermoelectric properties of boron carbide/HfB2 composites. Materials for Renewable and Sustainable Energy, 2017, 6, 1.	3.6	22
35	Realization of closed-loop optimization of epitaxial titanium nitride thin-film growth via machine learning. Materials Today Physics, 2021, 16, 100296.	6.0	22
36	A laser-deposition approach to compositional-spread discovery of materials on conventional sample sizes. Measurement Science and Technology, 2005, 16, 21-31.	2.6	20

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37	Influence of substrates on epitaxial growth of B-site-ordered perovskite La2NiMnO6 thin films. Journal of Applied Physics, 2011, 110, .	2.5	17
38	Composition dependence of the anomalous Hall effect inCaxSr1â^’xRuO3films. Physical Review B, 2007, 76, .	3.2	16
39	Electrode dependence and film resistivity effect in the electric-field-induced resistance-switching phenomena in epitaxial NiO films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 148, 40-42.	3.5	15
40	<i>InÂSitu</i>Photoemission Study of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Pr</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi> Thin Films with Suppressed Charge Fluctuations. Physical Review Letters, 2008, 100, 026402.	7.8	15
41	Chemical trend of Fermi-level shift in transition metal-doped TiO2 films. Journal of the Ceramic Society of Japan, 2010, 118, 993-996.	1.1	15
42	Three-Dimensionality of Electronic Structures and Thermoelectric Transport in SrZrN2 and SrHfN2 Layered Complex Metal Nitrides. Inorganic Chemistry, 2014, 53, 8979-8984.	4.0	15
43	Drastic power factor improvement by Te doping of rare earth-free CoSb3-skutterudite thin films. RSC Advances, 2020, 10, 21129-21135.	3.6	14
44	Synthesis of epitaxial Y-type magnetoplumbite thin films by quick optimization with combinatorial pulsed laser deposition. Journal of Crystal Growth, 2003, 247, 105-109.	1.5	13
45	Large Tunnel Magnetoresistance in Epitaxial Oxide Spinâ€Filter Tunnel Junctions. Advanced Functional Materials, 2012, 22, 4471-4475.	14.9	13
46	Miniaturized in-plane Ï€-type thermoelectric device composed of a IIâ€"IV semiconductor thin film prepared by microfabrication. Materials Today Energy, 2022, 28, 101075.	4.7	13
47	Infrared anomalous Hall effect in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>SrRuO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml: Exploring evidence for crossover to intrinsic behavior. Physical Review B, 2010, 81, .	3.2	12
48	Origin of Projected Excellent Thermoelectric Transport Properties in d⁰â€Electron AMN₂ (A = Sr or Ba; M = Ti, Zr, Hf) Layered Complex Metal Nitrides. European Journal of Inorganic Chemistry, 2015, 2015, 3715-3722.	2.0	12
49	Anisotropic thermoelectric properties in layered complex nitrides with Î±-NaFeO₂-type structure. APL Materials, 2016, 4, 104808.	5.1	12
50	Rapid deposition and thermoelectric properties of ytterbium boride thin films using hybrid physical chemical vapor deposition. Materialia, 2018, 1, 244-248.	2.7	12
51	Fabrication of spin-frustrated Sm2Mo2O7 epitaxial films: High throughput optimization using a temperature gradient method. Applied Physics Letters, 2003, 82, 1571-1573.	3.3	11
52	Seebeck Coefficient and Electrical Resistivity of Single Crystal B₁₂As₂at High Temperatures. Journal of the Physical Society of Japan, 2013, 82, 095001.	1.6	10
53	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
54	Epitaxial ScAlMgO4(0001) films grown on sapphire substrates by flux-mediated epitaxy. Applied Physics Letters, 2006, 89, 191910.	3.3	9

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55	Interfacial electronic structure of SrTiO3â^•SrRuO3 heterojuctions studied by in situ photoemission spectroscopy. Applied Physics Letters, 2008, 92, 122105.	3.3	9
56	Highly c-oriented RuSr2(Eu1.5Ce0.5)Cu2O10â^’Î´ thin film growth by pulsed laser deposition and subsequent post-annealing. Physica C: Superconductivity and Its Applications, 2004, 403, 21-24.	1.2	8
57	Simultaneous Z-Contrast and Phase Contrast Imaging of Oxygen in Ceramic Interfaces. Microscopy and Microanalysis, 2004, 10, 256-257.	0.4	8
58	Fabrication of Mg2Sn(111) film by molecular beam epitaxy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, .	2.1	8
59	High power factor in epitaxial Mg2Sn thin films via Ga doping. Applied Physics Letters, 2021, 119, .	3.3	8
60	Modulation of the ferromagnetic insulating phase in Pr_{0.8}Ca_{0.2}MnO₃ by Co substitution. Physica Status Solidi - Rapid Research Letters, 2011, 5, 34-36.	2.4	7
61	Rational Design of 3d Transition-Metal Compounds for Thermoelectric Properties by Using Periodic Trends in Electron-Correlation Modulation. Journal of the American Chemical Society, 2022, 144, 3590-3602.	13.7	7
62	Transport and magnetic properties of Pr1â^’xCaxMnO3 epitaxial films grown on LaAlO3 substrates. Journal of Magnetism and Magnetic Materials, 2007, 310, 2237-2238.	2.3	6
63	Comparative Study of Exchangeâ€“Correlation Functional and Potential for Evaluating Thermoelectric Transport Properties in <i>d</i>⁰ Perovskite Oxides. Journal of the Physical Society of Japan, 2017, 86, 074705.	1.6	6
64	Improvement of power factor in the room temperature range of Mg₂Sn_{1â^’x}Ge_x. Japanese Journal of Applied Physics, 2021, 60, SBBF06.	1.5	6
65	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
66	New record high thermoelectric ZT of delafossite-based CuCrO2 thin films obtained by simultaneously reducing electrical resistivity and thermal conductivity via heavy doping with controlled residual stress. Applied Surface Science, 2022, 583, 152526.	6.1	5
67	Infrared anomalous Hall effect in CaxSr1â^’xRuO3films. Physical Review B, 2013, 88, .	3.2	4
68	Control of Competing Thermodynamics and Kinetics in Vapor Phase Thin-Film Growth of Nitrides and Borides. Frontiers in Chemistry, 2021, 9, 642388.	3.6	4
69	In situ photoemission study of epitaxial thin films. Journal of Magnetism and Magnetic Materials, 2007, 310, 963-965.	2.3	3
70	Modification of reflection high-energy electron diffraction system for in situ monitoring of oxide epitaxy at high oxygen pressure. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 148, 16-18.	3.5	3
71	dz2 orbital character of polyhedra in complex solid-state transition-metal compounds. Dalton Transactions, 2020, 49, 431-437.	3.3	3
72	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

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73	Characterization of Magnetic and Dielectric Properties on Y-Type Magnetoplumbite Epitaxial thin Films for High Frequency Application. Materials Research Society Symposia Proceedings, 2001, 700, 2101.	0.1	1
74	Dependence of Magnetic Properties on Laser Ablation Conditions for Epitaxial La_{0.6}Sr_{0.4}MnO₃ Thin Films Grown by Pulsed Laser Deposition. Materials Transactions, 2009, 50, 1081-1084.	1.2	1
75	Device size dependence of resistance switching performance in metal/manganite/metal trilayers. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 173, 3-6.	3.5	1
76	Development of thermoelectric thin films and characterization methods. Journal of Physics: Conference Series, 2019, 1407, 012055.	0.4	1
77	ZrC epitaxy on Si(111). Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, 061512.	2.1	1
78	Publisher's Note: Determination of the infrared complex magnetoconductivity tensor in itinerant ferromagnets from Faraday and Kerr measurements [Phys. Rev. B75, 214416 (2007)]. Physical Review B, 2007, 76, .	3.2	0
79	Characterization of ferromagnetism around interfaces by rearâ€incident magnetoâ€optic Kerr effect. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 900-903.	1.8	0
80	Spintronics: Large Tunnel Magnetoresistance in Epitaxial Oxide Spinâ€Filter Tunnel Junctions (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	14.9	0
81	Combinatorial Fabrications and Electronic-state Evaluations of Functional Complex Metal Oxides. Hyomen Kagaku, 2009, 30, 2-6.	0.0	0