

Hidenori Hiramatsu

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197
ext. papers

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ext. citations

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L-index

#	Paper	IF	Citations
179	Iron-based layered superconductor: LaOFeP. <i>Journal of the American Chemical Society</i> , 2006 , 128, 10012-16	16.4	1051
178	p-channel thin-film transistor using p-type oxide semiconductor, SnO. <i>Applied Physics Letters</i> , 2008 , 93, 032113	3.4	491
177	Nickel-based oxyphosphide superconductor with a layered crystal structure, LaNiOP. <i>Inorganic Chemistry</i> , 2007 , 46, 7719-21	5.1	245
176	Preparation of highly conductive, deep ultraviolet transparent Ga ₂ O ₃ thin film at low deposition temperatures. <i>Thin Solid Films</i> , 2002 , 411, 134-139	2.2	237
175	Crystal Structures, Optoelectronic Properties, and Electronic Structures of Layered Oxychalcogenides M ₂ CuOCh (M = Bi, La; Ch = S, Se, Te): Effects of Electronic Configurations of M ³⁺ Ions. <i>Chemistry of Materials</i> , 2008 , 20, 326-334	9.6	227
174	Advantageous grain boundaries in iron pnictide superconductors. <i>Nature Communications</i> , 2011 , 2, 409	17.4	212
173	Recent advances in iron-based superconductors toward applications. <i>Materials Today</i> , 2018 , 21, 278-302	21.8	200
172	Tin monoxide as an s-orbital-based p-type oxide semiconductor: Electronic structures and TFT application. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009 , 206, 2187-2191	1.6	185
171	Degenerate p-type conductivity in wide-gap LaCuOS _{1-x} Sex (x=0-1) epitaxial films. <i>Applied Physics Letters</i> , 2003 , 82, 1048-1050	3.4	155
170	Growth, structure and carrier transport properties of Ga ₂ O ₃ epitaxial film examined for transparent field-effect transistor. <i>Thin Solid Films</i> , 2006 , 496, 37-41	2.2	142
169	Exploration of new superconductors and functional materials, and fabrication of superconducting tapes and wires of iron pnictides. <i>Science and Technology of Advanced Materials</i> , 2015 , 16, 033503	7.1	141
168	Discovery of earth-abundant nitride semiconductors by computational screening and high-pressure synthesis. <i>Nature Communications</i> , 2016 , 7, 11962	17.4	133
167	Frontier of transparent oxide semiconductors. <i>Solid-State Electronics</i> , 2003 , 47, 2261-2267	1.7	123
166	Field-induced current modulation in epitaxial film of deep-ultraviolet transparent oxide semiconductor Ga ₂ O ₃ . <i>Applied Physics Letters</i> , 2006 , 88, 092106	3.4	117
165	Biaxially textured cobalt-doped BaFe ₂ As ₂ films with high critical current density over 1 MA/cm ² on MgO-buffered metal-tape flexible substrates. <i>Applied Physics Letters</i> , 2011 , 98, 242510	3.4	105
164	Superconductivity in Epitaxial Thin Films of Co-Doped SrFe ₂ As ₂ with Bilayered FeAs Structures and their Magnetic Anisotropy. <i>Applied Physics Express</i> , 2008 , 1, 101702	2.4	101
163	Pseudoisotropic upper critical field in cobalt-doped SrFe ₂ As ₂ epitaxial films. <i>Physical Review Letters</i> , 2009 , 102, 117004	7.4	99

162	Heteroepitaxial growth of a wide-gap p-type semiconductor, LaCuOS. <i>Applied Physics Letters</i> , 2002 , 81, 598-600	3.4	96
161	Hydrogen passivation of electron trap in amorphous In-Ga-Zn-O thin-film transistors. <i>Applied Physics Letters</i> , 2013 , 103, 202114	3.4	92
160	Heteroepitaxial growth and optoelectronic properties of layered iron oxyarsenide, LaFeAsO. <i>Applied Physics Letters</i> , 2008 , 93, 162504	3.4	88
159	Single-atomic-layered quantum wells built in wide-gap semiconductors LnCuOCh (Ln=lanthanide, Ch=chalcogen). <i>Physical Review B</i> , 2004 , 69,	3.3	88
158	Electrical and Optical Properties of Radio-Frequency-Sputtered Thin Films of (ZnO)5In2O3. <i>Chemistry of Materials</i> , 1998 , 10, 3033-3039	9.6	85
157	Electrical and Optical Properties and Electronic Structures of LnCuOS (Ln = La~Nd). <i>Chemistry of Materials</i> , 2003 , 15, 3692-3695	9.6	84
156	Heavy hole doping of epitaxial thin films of a wide gap p-type semiconductor, LaCuOSe, and analysis of the effective mass. <i>Applied Physics Letters</i> , 2007 , 91, 012104	3.4	82
155	High Critical Current Density 4 MA/cm ² in Co-Doped BaFe ₂ As ₂ Epitaxial Films Grown on (La,Sr)(Al,Ta)O ₃ Substrates without Buffer Layers. <i>Applied Physics Express</i> , 2010 , 3, 063101	2.4	81
154	Wide-gap layered oxychalcogenide semiconductors: Materials, electronic structures and optoelectronic properties. <i>Thin Solid Films</i> , 2006 , 496, 8-15	2.2	77
153	Structural relaxation in amorphous oxide semiconductor, a-In-Ga-Zn-O. <i>Journal of Applied Physics</i> , 2012 , 111, 073513	2.5	74
152	Intrinsic excitonic photoluminescence and band-gap engineering of wide-gap p-type oxychalcogenide epitaxial films of LnCuOCh (Ln=La, Pr, and Nd; Ch=S or Se) semiconductor alloys. <i>Journal of Applied Physics</i> , 2003 , 94, 5805-5808	2.5	74
151	Electric field-induced superconducting transition of insulating FeSe thin film at 35 K. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 3986-90	11.5	73
150	Preparation of transparent p-type (La _{1-x} Sr _x O)CuS thin films by r.f. sputtering technique. <i>Thin Solid Films</i> , 2002 , 411, 125-128	2.2	71
149	Improvement in thermoelectric properties of (ZnO)5In2O3 through partial substitution of yttrium for indium. <i>Journal of Materials Research</i> , 1998 , 13, 523-526	2.5	70
148	Thin film growth of Fe-based superconductors: from fundamental properties to functional devices. A comparative review. <i>Reports on Progress in Physics</i> , 2014 , 77, 046502	14.4	67
147	Josephson junction in cobalt-doped BaFe ₂ As ₂ epitaxial thin films on (La,Sr)(Al,Ta)O ₃ bicrystal substrates. <i>Applied Physics Letters</i> , 2010 , 96, 142507	3.4	66
146	Atomically-flat, chemically-stable, superconducting epitaxial thin film of iron-based superconductor, cobalt-doped BaFe ₂ As ₂ . <i>Solid State Communications</i> , 2009 , 149, 2121-2124	1.6	65
145	Water-induced superconductivity in SrFe ₂ As ₂ . <i>Physical Review B</i> , 2009 , 80,	3.3	64

144	Performance boosting strategy for perovskite light-emitting diodes. <i>Applied Physics Reviews</i> , 2019 , 6, 031402	17.3	63
143	Electrical conductivity control in transparent p-type (LaO)CuS thin films prepared by rf sputtering. <i>Journal of Applied Physics</i> , 2002 , 91, 9177-9181	2.5	60
142	Exploration of Stable Strontium Phosphide-Based Electrides: Theoretical Structure Prediction and Experimental Validation. <i>Journal of the American Chemical Society</i> , 2017 , 139, 15668-15680	16.4	57
141	Conversion of an ultra-wide bandgap amorphous oxide insulator to a semiconductor. <i>NPG Asia Materials</i> , 2017 , 9, e359-e359	10.3	56
140	Third-order optical nonlinearity originating from room-temperature exciton in layered compounds LaCuOS and LaCuOSe. <i>Applied Physics Letters</i> , 2004 , 84, 879-881	3.4	52
139	Mechanism for Heteroepitaxial Growth of Transparent P-Type Semiconductor: LaCuOS by Reactive Solid-Phase Epitaxy. <i>Crystal Growth and Design</i> , 2004 , 4, 301-307	3.5	50
138	Excitonic blue luminescence from p-LaCuOSe _{1-x} InGaZn ₅ O ₈ light-emitting diode at room temperature. <i>Applied Physics Letters</i> , 2005 , 87, 211107	3.4	50
137	Thin Film Growth and Device Fabrication of Iron-Based Superconductors. <i>Journal of the Physical Society of Japan</i> , 2012 , 81, 011011	1.5	47
136	DC superconducting quantum interference devices fabricated using bicrystal grain boundary junctions in Co-doped BaFe ₂ As ₂ epitaxial films. <i>Superconductor Science and Technology</i> , 2010 , 23, 082001 ³⁻¹		46
135	Opto-electronic properties and light-emitting device application of widegap layered oxychalcogenides: LaCuOCh (Ch = chalcogen) and La ₂ CdO ₂ Se ₂ . <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 2800-2811	1.6	45
134	n-type conversion of SnS by isovalent ion substitution: Geometrical doping as a new doping route. <i>Scientific Reports</i> , 2015 , 5, 10428	4.9	44
133	Liquid vortex phase and strong c-axis pinning in low anisotropy BaCo _x Fe _{2-x} As ₂ pnictide films. <i>Superconductor Science and Technology</i> , 2011 , 24, 055007	3.1	44
132	Roles of Hydrogen in Amorphous Oxide Semiconductor In-Ga-Zn-O: Comparison of Conventional and Ultra-High-Vacuum Sputtering. <i>ECS Journal of Solid State Science and Technology</i> , 2014 , 3, Q3085-Q3090		43
131	Low Threshold Voltage and Carrier Injection Properties of Inverted Organic Light-Emitting Diodes with [Ca ₂₄ Al ₂₈ O ₆₄] ₄₊ (4e ⁻) Cathode and Cu ₂ Se Anode. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 18379-18384	3.8	42
130	High critical-current density with less anisotropy in BaFe ₂ (As,P) ₂ epitaxial thin films: Effect of intentionally grown c-axis vortex-pinning centers. <i>Applied Physics Letters</i> , 2014 , 104, 182603	3.4	41
129	Thin film growth by pulsed laser deposition and properties of 122-type iron-based superconductor AE(Fe _{1-x} Cox) ₂ As ₂ (AE=alkaline earth). <i>Superconductor Science and Technology</i> , 2012 , 25, 084015	3.1	41
128	Identical effects of indirect and direct electron doping of superconducting BaFe ₂ As ₂ thin films. <i>Physical Review B</i> , 2012 , 85,	3.3	41
127	Device applications of transparent oxide semiconductors: Excitonic blue LED and transparent flexible TFT. <i>Journal of Electroceramics</i> , 2006 , 17, 267-275	1.5	41

126	Competition and cooperation of pinning by extrinsic point-like defects and intrinsic strong columnar defects in BaFe ₂ As ₂ thin films. <i>Physical Review B</i> , 2012 , 86,	3.3	38
125	Role of lone pair electrons in determining the optoelectronic properties of BiCuOSe. <i>Physical Review B</i> , 2012 , 85,	3.3	37
124	Heteroepitaxial film growth of layered compounds with the ZrCuSiAs-type and ThCr ₂ Si ₂ -type structures: From Cu-based semiconductors to Fe-based superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2009 , 469, 657-666	1.3	37
123	Origins of hole doping and relevant optoelectronic properties of wide gap p-type semiconductor, LaCuOSe. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15060-7	16.4	36
122	Heteroepitaxial growth of layered semiconductors, LaZnOP _n (P _n = P and As). <i>Thin Solid Films</i> , 2008 , 516, 5800-5804	2.2	36
121	Electron effective mass and mobility limits in degenerate perovskite stannate BaSnO ₃ . <i>Physical Review B</i> , 2017 , 95,	3.3	33
120	Synthesis of single-phase layered oxychalcogenide La ₂ CdO ₂ Se ₂ : crystal structure, optical and electrical properties. <i>Journal of Materials Chemistry</i> , 2004 , 14, 2946		33
119	Wide gap p-type degenerate semiconductor: Mg-doped LaCuOSe. <i>Thin Solid Films</i> , 2003 , 445, 304-308	2.2	33
118	Microstructure and transport properties of [001]-tilt bicrystal grain boundaries in iron pnictide superconductor, cobalt-doped BaFe ₂ As ₂ . <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012 , 177, 515-519	3.1	32
117	Extraordinary Strong Band-Edge Absorption in Distorted Chalcogenide Perovskites. <i>Solar Rrl</i> , 2020 , 4, 1900555	7.1	31
116	Epitaxial film growth and optoelectrical properties of layered semiconductors, LaMnXO (X=P, As, and Sb). <i>Journal of Applied Physics</i> , 2009 , 105, 073903	2.5	30
115	Optical Properties and Two-Dimensional Electronic Structure in Wide-Gap Layered Oxychalcogenide: La ₂ CdO ₂ Se ₂ . <i>Journal of Physical Chemistry B</i> , 2004 , 108, 17344-17351	3.4	30
114	Material Design of Green-Light-Emitting Semiconductors: Perovskite-Type Sulfide SrHfS. <i>Journal of the American Chemical Society</i> , 2019 , 141, 5343-5349	16.4	29
113	High-field transport properties of a P-doped BaFeAs film on technical substrate. <i>Scientific Reports</i> , 2017 , 7, 39951	4.9	29
112	Coexistence of superconductivity and antiferromagnetic ordering in the layered superconductor SmFePO. <i>Physical Review B</i> , 2008 , 78,	3.3	29
111	Effects of residual hydrogen in sputtering atmosphere on structures and properties of amorphous In-Ga-Zn-O thin films. <i>Journal of Applied Physics</i> , 2015 , 118, 205703	2.5	28
110	Film Texture, Hole Transport and Field-Effect Mobility in Polycrystalline SnO Thin Films on Glass. <i>ECS Journal of Solid State Science and Technology</i> , 2014 , 3, Q3040-Q3044	2	28
109	Thermoelectric Properties of (ZnO) ₅ In ₂ O ₃ Thin Films Prepared by r.f. Sputtering Method.. <i>Funtai Oyobi Fummtsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 1997 , 44, 44-49	0.2	28

108	Low and small resistance hole-injection barrier for NPB realized by wide-gap p-type degenerate semiconductor, LaCuOSe:Mg. <i>Organic Electronics</i> , 2008 , 9, 890-894	3.5	28
107	Fabrication of heteroepitaxial thin films of layered oxychalcogenides LnCuOCh (Ln = LaNd; Ch = SSe) by reactive solid-phase epitaxy. <i>Journal of Materials Research</i> , 2004 , 19, 2137-2143	2.5	28
106	Growth of high-quality SnS epitaxial films by H ₂ S flow pulsed laser deposition. <i>Applied Physics Letters</i> , 2014 , 104, 072106	3.4	27
105	Heteroepitaxial growth of SnSe films by pulsed laser deposition using Se-rich targets. <i>Journal of Applied Physics</i> , 2015 , 118, 205302	2.5	27
104	Apparent bipolarity and Seebeck sign inversion in a layered semiconductor: LaZnOP. <i>Physical Review B</i> , 2007 , 76,	3.3	27
103	Solid phase epitaxial growth of high mobility La:BaSnO ₃ thin films co-doped with interstitial hydrogen. <i>Applied Physics Letters</i> , 2016 , 108, 172101	3.4	27
102	Enhanced critical-current in P-doped BaFeAs thin films on metal substrates arising from poorly aligned grain boundaries. <i>Scientific Reports</i> , 2016 , 6, 36828	4.9	26
101	Electric double-layer transistor using layered iron selenide Mott insulator TlFe _{1.6} Se ₂ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 3979-83	11.5	26
100	Narrow bandgap in BaZnAs ₂ and its chemical origins. <i>Journal of the American Chemical Society</i> , 2014 , 136, 14959-65	16.4	25
99	SnAs with the NaCl-type Structure: Type-I Superconductivity and Single Valence State of Sn. <i>Chemistry of Materials</i> , 2014 , 26, 7209-7213	9.6	25
98	Angular and field properties of the critical current and melting line of Co-doped SrFe ₂ As ₂ epitaxial films. <i>Superconductor Science and Technology</i> , 2009 , 22, 125011	3.1	23
97	. <i>Journal of Display Technology</i> , 2015 , 11, 523-527		22
96	Critical factor for epitaxial growth of cobalt-doped BaFe ₂ As ₂ films by pulsed laser deposition. <i>Applied Physics Letters</i> , 2014 , 104, 172602	3.4	22
95	In-situ growth of superconducting SmOFeAs thin films by pulsed laser deposition. <i>Scientific Reports</i> , 2016 , 6, 35797	4.9	21
94	Electrical and Photonic Functions Originating from Low-Dimensional Structures in Wide-Gap Semiconductors LnCuOCh (Ln=lanthanide, Ch=chalcogen): A Review. <i>Journal of the Ceramic Society of Japan</i> , 2005 , 113, 10-16		21
93	. <i>Journal of Display Technology</i> , 2015 , 11, 518-522		20
92	Magnetic and carrier transport properties of Mn-doped p-type semiconductor LaCuOSe: An investigation of the origin of ferromagnetism. <i>Journal of Applied Physics</i> , 2006 , 100, 033717	2.5	20
91	Multiple Roles of Hydrogen Treatments in Amorphous InGaZnO Films. <i>ECS Journal of Solid State Science and Technology</i> , 2017 , 6, P365-P372	2	19

90	Magnetic scattering and electron pair breaking by rare-earth-ion substitution in BaFe ₂ As ₂ epitaxial films. <i>New Journal of Physics</i> , 2013 , 15, 073019	2.9	18
89	Transport and magnetic properties of Co-doped BaFe ₂ As ₂ epitaxial thin films grown on MgO substrate. <i>Superconductor Science and Technology</i> , 2010 , 23, 105016	3.1	18
88	Direct imaging of doped fluorine in LaFeAsO _{1-x} F _x superconductor by atomic scale spectroscopy. <i>Applied Physics Letters</i> , 2009 , 95, 193107	3.4	18
87	Optoelectronic properties and electronic structure of YCuOSe. <i>Journal of Applied Physics</i> , 2007 , 102, 113714	2.5	18
86	Heteroepitaxial growth of single-phase zinc blende ZnS films on transparent substrates by pulsed laser deposition under H ₂ S atmosphere. <i>Solid State Communications</i> , 2002 , 124, 411-415	1.6	18
85	Two-dimensional electronic structure and multiple excitonic states in layered oxychalcogenide semiconductors, LaCuOCh (Ch=S, Se, Te): Optical properties and relativistic ab initio study. <i>Thin Solid Films</i> , 2005 , 486, 98-103	2.2	18
84	Layered mixed-anion compounds: Epitaxial growth, active function exploration, and device application. <i>Journal of the European Ceramic Society</i> , 2009 , 29, 245-253	6	17
83	Fabrication and electron transport properties of epitaxial films of electron-doped 12CaO \cdot 7Al ₂ O ₃ and 12SrO \cdot 7Al ₂ O ₃ . <i>Journal of Solid State Chemistry</i> , 2010 , 183, 385-391	3.3	17
82	Pulsed laser deposition system for producing oxide thin films at high temperature. <i>Review of Scientific Instruments</i> , 2001 , 72, 3340-3343	1.7	17
81	Unusual pressure effects on the superconductivity of indirectly electron-doped (Ba _{1-x} Lax)Fe ₂ As ₂ epitaxial films. <i>Physical Review B</i> , 2013 , 88,	3.3	16
80	Efficient construction method for phase diagrams using uncertainty sampling. <i>Physical Review Materials</i> , 2019 , 3,	3.2	16
79	. <i>Journal of Display Technology</i> , 2014 , 10, 979-983		15
78	Degenerate electrical conductive and excitonic photoluminescence properties of epitaxial films of wide gap p-type layered oxychalcogenides, LnCuOCh (Ln=La, Pr and Nd; Ch=S or Se). <i>Applied Physics A: Materials Science and Processing</i> , 2004 , 79, 1521-1523	2.6	15
77	Recent progress in pulsed laser deposition of iron based superconductors. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 345301	3	15
76	The atomic structure, band gap, and electrostatic potential at the (112)[110] twin grain boundary of CuInSe ₂ . <i>Applied Physics Letters</i> , 2014 , 104, 153904	3.4	14
75	Anomalous scaling behavior in a mixed-state Hall effect of a cobalt-doped BaFe ₂ As ₂ epitaxial film with a high critical current density over 1 MA/cm ² . <i>Physical Review B</i> , 2013 , 87,	3.3	14
74	Characterization of copper selenide thin film hole-injection layers deposited at room temperature for use with p-type organic semiconductors. <i>Journal of Applied Physics</i> , 2008 , 104, 113723	2.5	14
73	Natural nanostructures in ionic semiconductors. <i>Microelectronic Engineering</i> , 2004 , 73-74, 620-626	2.5	14

72	Quantum beat between two excitonic levels split by spin-orbit interactions in the oxychalcogenide LaCuOS. <i>Optics Letters</i> , 2004 , 29, 1659-61	3	14
71	Superconducting Properties and Phase Diagram of Indirectly Electron-Doped $(\text{Sr}_{1-x})\text{La}_x\text{FeAs}_2$ Epitaxial Films Grown by Pulsed Laser Deposition. <i>IEEE Transactions on Applied Superconductivity</i> , 2013 , 23, 7300405-7300405	1.8	13
70	Electronic and magnetic properties of layered LnFePO (Ln=La and Ce). <i>Journal of Physics and Chemistry of Solids</i> , 2008 , 69, 2916-2918	3.9	13
69	Nonequilibrium Rock-Salt-Type Pb-Doped SnSe with High Carrier Mobilities $100 \text{ cm}^2/(\text{Vs})$. <i>Chemistry of Materials</i> , 2016 , 28, 2278-2286	9.6	13
68	Highly hydrogen-sensitive thermal desorption spectroscopy system for quantitative analysis of low hydrogen concentration ($\sim 1 \times 10^4$ atoms/cm) in thin-film samples. <i>Review of Scientific Instruments</i> , 2017 , 88, 053103	1.7	12
67	Ultrawide band gap amorphous oxide semiconductor, GaInO . <i>Thin Solid Films</i> , 2016 , 614, 84-89	2.2	12
66	An Exceptionally Narrow Band-Gap (~ 4 eV) Silicate Predicted in the Cubic Perovskite Structure: BaSiO. <i>Inorganic Chemistry</i> , 2017 , 56, 10535-10542	5.1	12
65	Low anisotropic upper critical fields in $\text{SmO}_{1-x}\text{F}_x\text{FeAs}$ thin films with a layered hybrid structure. <i>Superconductor Science and Technology</i> , 2019 , 32, 044003	3.1	11
64	Effects of thermal annealing on elimination of deep defects in amorphous InGaZnO thin-film transistors. <i>Thin Solid Films</i> , 2016 , 614, 73-78	2.2	11
63	Growth of c-axis-oriented superconducting KFeAs thin films. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 14293-301	9.5	11
62	SnS thin films prepared by H ₂ S-free process and its p-type thin film transistor. <i>AIP Advances</i> , 2016 , 6, 015112	1.5	11
61	Multiple Color Inorganic Thin-Film Phosphor, RE-Doped Amorphous Gallium Oxide (RE = Rare Earth: Pr, Sm, Tb, and Dy), Deposited at Room Temperature. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1700833	1.6	11
60	Effects of Base Pressure on Growth and Optoelectronic Properties of Amorphous In-Ga-Zn-O: Ultralow Optimum Oxygen Supply and Bandgap Widening. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1700832	1.6	11
59	Key Factors for Insulator-Superconductor Transition in FeSe Thin Films by Electric Field. <i>IEEE Transactions on Applied Superconductivity</i> , 2017 , 27, 1-5	1.8	10
58	Epitaxial growth and electronic structure of a layered zinc pnictide semiconductor, BaZn_2As_2 . <i>Thin Solid Films</i> , 2014 , 559, 100-104	2.2	10
57	Fabrication and characterization of ZnS:(Cu,Al) thin film phosphors on glass substrates by pulsed laser deposition. <i>Thin Solid Films</i> , 2014 , 559, 18-22	2.2	10
56	Indium-based ultraviolet-transparent electroconductive oxyfluoride InOF: ambient-pressure synthesis and unique electronic properties in comparison with In ₂ O ₃ . <i>Journal of the American Chemical Society</i> , 2013 , 135, 13080-8	16.4	10
55	Excitonic properties related to valence band levels split by spin-orbit interaction in layered oxychalcogenide LaCuOCh (Ch=S,Se). <i>Journal of Luminescence</i> , 2005 , 112, 66-70	3.8	10

54	Room-temperature fabrication of light-emitting thin films based on amorphous oxide semiconductor. <i>AIP Advances</i> , 2016 , 6, 015106	1.5	10
53	Effects of working pressure and annealing on bulk density and nanopore structures in amorphous InGaZnO thin-film transistors. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 03BB03	1.4	9
52	$\text{BaFe}_2(\text{As}_{1-x}\text{Px})_2$ ($x=0.22$ - 0.42) thin films grown on practical metal tape substrates and their critical current densities. <i>Superconductor Science and Technology</i> , 2017 , 30, 044003	3.1	9
51	Transparent amorphous oxide semiconductor thin film phosphor, In-Mg-O:Eu . <i>Journal of the Ceramic Society of Japan</i> , 2016 , 124, 532-535	1	9
50	Superconductivity at 48 K of heavily hydrogen-doped SmFeAsO epitaxial films grown by topotactic chemical reaction using CaH_2 . <i>Physical Review Materials</i> , 2019 , 3,	3.2	9
49	Pulsed laser deposition of SmFeAsO on $\text{MgO}(100)$ substrates. <i>Applied Surface Science</i> , 2018 , 437, 418-428	4	8
48	Detection of dead layers and defects in polycrystalline Cu_2O thin-film transistors by x-ray reflectivity and photoresponse spectroscopy analyses. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2015 , 33, 051211	1.3	8
47	Ultralow-Dissipative Conductivity by Dirac Fermions in BaFe_2As_2 . <i>Journal of the Physical Society of Japan</i> , 2013 , 82, 043709	1.5	8
46	Terahertz conductivity measurement of $\text{FeSe}_{0.5}\text{Te}_{0.5}$ and Co-doped BaFe_2As_2 thin films. <i>Physica C: Superconductivity and Its Applications</i> , 2011 , 471, 634-638	1.3	8
45	Heteroepitaxial Thin-Film Growth of a Ternary Nitride Semiconductor CaZn_2N_2 . <i>ACS Applied Electronic Materials</i> , 2019 , 1, 1433-1438	4	7
44	Photonic materials utilizing naturally occurring nanostructures. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004 , 166, 141-147	4.7	7
43	Novel solid-phase epitaxy for multi-component materials with extremely high vapor pressure elements: An application to KFe_2As_2 . <i>Applied Physics Express</i> , 2016 , 9, 055505	2.4	7
42	Amorphous Gallium Oxide as an Improved Host for Inorganic Light-Emitting Thin Film Semiconductor Fabricated at Room Temperature on Glass. <i>ECS Journal of Solid State Science and Technology</i> , 2017 , 6, P410-P414	2	6
41	Tunable Light Emission through the Range 1.8-3.2 eV and p-Type Conductivity at Room Temperature for Nitride Semiconductors, $\text{Ca}(\text{MgZn})\text{N}$ ($x=0-1$). <i>Inorganic Chemistry</i> , 2019 , 58, 12311-12316 ^{5.1}	5.1	6
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