

# Toshio Kamiya

## List of Publications by Citations

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236 papers	27,342 citations	74 h-index	163 g-index
249 ext. papers	29,538 ext. citations	4 avg, IF	6.9 L-index

#	Paper	IF	Citations
236	Room-temperature fabrication of transparent flexible thin-film transistors using amorphous oxide semiconductors. <i>Nature</i> , <b>2004</b> , 432, 488-92	50.4	5517
235	Thin-film transistor fabricated in single-crystalline transparent oxide semiconductor. <i>Science</i> , <b>2003</b> , 300, 1269-72	33.3	1534
234	Present status of amorphous In-Ga-Zn-O thin-film transistors. <i>Science and Technology of Advanced Materials</i> , <b>2010</b> , 11, 044305	7.1	1287
233	Iron-based layered superconductor: LaOF <sub>2</sub> P. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 10012-16	36.4	1051
232	High-mobility thin-film transistor with amorphous InGaZnO <sub>4</sub> channel fabricated by room temperature rf-magnetron sputtering. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 112123	3.4	944
231	Material characteristics and applications of transparent amorphous oxide semiconductors. <i>NPG Asia Materials</i> , <b>2010</b> , 2, 15-22	10.3	664
230	High-density electron anions in a nanoporous single crystal: [Ca <sub>24</sub> Al <sub>28</sub> O <sub>64</sub> ] <sup>4+</sup> (4e <sup>-</sup> ). <i>Science</i> , <b>2003</b> , 301, 626-9	33.3	638
229	Amorphous Oxide Semiconductors for High-Performance Flexible Thin-Film Transistors. <i>Japanese Journal of Applied Physics</i> , <b>2006</b> , 45, 4303-4308	1.4	589
228	p-channel thin-film transistor using p-type oxide semiconductor, SnO. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 032113	3.4	491
227	Light-induced conversion of an insulating refractory oxide into a persistent electronic conductor. <i>Nature</i> , <b>2002</b> , 419, 462-5	50.4	386
226	Carrier transport and electronic structure in amorphous oxide semiconductor, a-InGaZnO <sub>4</sub> . <i>Thin Solid Films</i> , <b>2005</b> , 486, 38-41	2.2	385
225	Origins of High Mobility and Low Operation Voltage of Amorphous Oxide TFTs: Electronic Structure, Electron Transport, Defects and Doping. <i>Journal of Display Technology</i> , <b>2009</b> , 5, 273-288		371
224	Origins of threshold voltage shifts in room-temperature deposited and annealed a-InGaZnO thin-film transistors. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 013502	3.4	295
223	Modeling of amorphous InGaZnO <sub>4</sub> thin film transistors and their subgap density of states. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 133503	3.4	289
222	Fabrication and photoresponse of a pn-heterojunction diode composed of transparent oxide semiconductors, p-NiO and n-ZnO. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 1029-1031	3.4	288
221	Subgap states in transparent amorphous oxide semiconductor, InGaZnO, observed by bulk sensitive x-ray photoelectron spectroscopy. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 202117	3.4	268
220	Trap densities in amorphous-InGaZnO <sub>4</sub> thin-film transistors. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 133512	3.4	254

219	Local coordination structure and electronic structure of the large electron mobility amorphous oxide semiconductor In-Ga-Zn-O: Experiment and ab initio calculations. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	252
218	Nickel-based oxyphosphide superconductor with a layered crystal structure, LaNiOP. <i>Inorganic Chemistry</i> , <b>2007</b> , 46, 7719-21	5.1	245
217	Defect passivation and homogenization of amorphous oxide thin-film transistor by wet O2 annealing. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 192107	3.4	243
216	Carrier transport in transparent oxide semiconductor with intrinsic structural randomness probed using single-crystalline InGaO <sub>3</sub> (ZnO) <sub>5</sub> films. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 1993-1995	3.4	229
215	Crystal Structures, Optoelectronic Properties, and Electronic Structures of Layered Oxychalcogenides MCuOCh (M = Bi, La; Ch = S, Se, Te): Effects of Electronic Configurations of M <sup>3+</sup> Ions. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 326-334	9.6	227
214	Advantageous grain boundaries in iron pnictide superconductors. <i>Nature Communications</i> , <b>2011</b> , 2, 409	17.4	212
213	Ambipolar oxide thin-film transistor. <i>Advanced Materials</i> , <b>2011</b> , 23, 3431-4	24	207
212	Combinatorial approach to thin-film transistors using multicomponent semiconductor channels: An application to amorphous oxide semiconductors in InGaZnO system. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 242114	3.4	200
211	Epitaxial growth of high mobility Cu <sub>2</sub> O thin films and application to p-channel thin film transistor. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 202107	3.4	193
210	Electronic structure of oxygen deficient amorphous oxide semiconductor a-InGaZnO <sub>4-x</sub> : Optical analyses and first-principle calculations. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2008</b> , 5, 3098-3100		187
209	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> , <b>2009</b> , 206, 2187-2191	1.6	185
208	Electronic Structures Above Mobility Edges in Crystalline and Amorphous In-Ga-Zn-O: Percolation Conduction Examined by Analytical Model. <i>Journal of Display Technology</i> , <b>2009</b> , 5, 462-467		185
207	Electronic structure of the amorphous oxide semiconductor a-InGaZnO <sub>4-x</sub> : Tauc-Lorentz optical model and origins of subgap states. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2009</b> , 206, 860-867	1.6	183
206	Metallic state in a lime-alumina compound with nanoporous structure. <i>Nano Letters</i> , <b>2007</b> , 7, 1138-43	11.5	183
205	UV-detector based on pn-heterojunction diode composed of transparent oxide semiconductors, p-NiO/n-ZnO. <i>Thin Solid Films</i> , <b>2003</b> , 445, 317-321	2.2	183
204	Specific contact resistances between amorphous oxide semiconductor InGaZnO and metallic electrodes. <i>Thin Solid Films</i> , <b>2008</b> , 516, 5899-5902	2.2	171
203	Effects of excess oxygen on operation characteristics of amorphous In-Ga-Zn-O thin-film transistors. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 093507	3.4	166
202	Sputtering formation of p-type SnO thin-film transistors on glass toward oxide complimentary circuits. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 072111	3.4	165

201	Amorphous oxide channel TFTs. <i>Thin Solid Films</i> , <b>2008</b> , 516, 1516-1522	2.2	155
200	Degenerate p-type conductivity in wide-gap LaCuOS <sub>1-x</sub> Se <sub>x</sub> (x=0.1) epitaxial films. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 1048-1050	3.4	155
199	Effects of Diffusion of Hydrogen and Oxygen on Electrical Properties of Amorphous Oxide Semiconductor, In-Ga-Zn-O. <i>ECS Journal of Solid State Science and Technology</i> , <b>2013</b> , 2, P5-P8	2	152
198	Factors controlling electron transport properties in transparent amorphous oxide semiconductors. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 2796-2800	3.9	152
197	Amorphous InGaZnO coplanar homojunction thin-film transistor. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 133502	3.4	150
196	Growth, structure and carrier transport properties of Ga <sub>2</sub> O <sub>3</sub> epitaxial film examined for transparent field-effect transistor. <i>Thin Solid Films</i> , <b>2006</b> , 496, 37-41	2.2	142
195	Depth analysis of subgap electronic states in amorphous oxide semiconductor, a-In-Ga-Zn-O, studied by hard x-ray photoelectron spectroscopy. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 073726	2.5	141
194	Highly stable amorphous In-Ga-Zn-O thin-film transistors produced by eliminating deep subgap defects. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 053505	3.4	139
193	Bipolar Conduction in SnO Thin Films. <i>Electrochemical and Solid-State Letters</i> , <b>2011</b> , 14, H13		132
192	Itinerant ferromagnetism in the layered crystals LaCoOX(X=P,As). <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	129
191	Proton Conduction in In <sup>3+</sup> -Doped SnP <sub>2</sub> O <sub>7</sub> at Intermediate Temperatures. <i>Journal of the Electrochemical Society</i> , <b>2006</b> , 153, A1604	3.9	129
190	Subgap states, doping and defect formation energies in amorphous oxide semiconductor a-InGaZnO <sub>4</sub> studied by density functional theory. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2010</b> , 207, 1698-1703	1.6	127
189	Frontier of transparent oxide semiconductors. <i>Solid-State Electronics</i> , <b>2003</b> , 47, 2261-2267	1.7	123
188	Origin of definite Hall voltage and positive slope in mobility-donor density relation in disordered oxide semiconductors. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 122103	3.4	121
187	Oligomerization of adenosine A <sub>2</sub> A and dopamine D <sub>2</sub> receptors in living cells. <i>Biochemical and Biophysical Research Communications</i> , <b>2003</b> , 306, 544-9	3.4	118
186	Field-induced current modulation in epitaxial film of deep-ultraviolet transparent oxide semiconductor Ga <sub>2</sub> O <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2006</b> , 88, 092106	3.4	117
185	Two-Dimensional Transition-Metal Electride Y <sub>2</sub> C. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 6638-6643	9.6	113
184	Fabrication and characterization of heteroepitaxial p-n junction diode composed of wide-gap oxide semiconductors p-ZnRh <sub>2</sub> O <sub>4</sub> /n-ZnO. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 823-825	3.4	112

183	Nickel-based phosphide superconductor with infinite-layer structure, BaNi <sub>2</sub> P <sub>2</sub> . <i>Solid State Communications</i> , <b>2008</b> , 147, 111-113	1.6	110
182	Biaxially textured cobalt-doped BaFe <sub>2</sub> As <sub>2</sub> films with high critical current density over 1 MA/cm <sup>2</sup> on MgO-buffered metal-tape flexible substrates. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 242510	3.4	105
181	Fast Thin-Film Transistor Circuits Based on Amorphous Oxide Semiconductor. <i>IEEE Electron Device Letters</i> , <b>2007</b> , 28, 273-275	4.4	104
180	Superconductivity in Epitaxial Thin Films of Co-Doped SrFe <sub>2</sub> As <sub>2</sub> with Bilayered FeAs Structures and their Magnetic Anisotropy. <i>Applied Physics Express</i> , <b>2008</b> , 1, 101702	2.4	101
179	Hydrogen passivation of electron trap in amorphous In-Ga-Zn-O thin-film transistors. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 202114	3.4	92
178	Optical and electrical properties of amorphous zinc tin oxide thin films examined for thin film transistor application. <i>Journal of Vacuum Science &amp; Technology B</i> , <b>2008</b> , 26, 495		89
177	Heteroepitaxial growth and optoelectronic properties of layered iron oxyarsenide, LaFeAsO. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 162504	3.4	88
176	Single-atomic-layered quantum wells built in wide-gap semiconductors LnCuOCh (Ln=lanthanide, Ch=chalcogen). <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	88
175	Nickel-based layered superconductor, LaNiOAs. <i>Journal of Solid State Chemistry</i> , <b>2008</b> , 181, 2117-2120	3.3	86
174	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> , <b>2007</b> , 91, 012104	3.4	82
173	Three-dimensionally stacked flexible integrated circuit: Amorphous oxide/polymer hybrid complementary inverter using n-type a-InGaZnO and p-type poly-(9,9-dioctylfluorene-co-bithiophene) thin-film transistors. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 263509	3.4	81
172	High Critical Current Density 4 MA/cm <sup>2</sup> in Co-Doped BaFe <sub>2</sub> As <sub>2</sub> Epitaxial Films Grown on (La,Sr)(Al,Ta)O <sub>3</sub> Substrates without Buffer Layers. <i>Applied Physics Express</i> , <b>2010</b> , 3, 063101	2.4	81
171	Intermediate-Temperature Proton Conduction in Al <sup>3+</sup> -Doped SnP <sub>2</sub> O <sub>7</sub> . <i>Journal of the Electrochemical Society</i> , <b>2007</b> , 154, B1265	3.9	81
170	Device characteristics improvement of a-InGaZnO TFTs by low-temperature annealing. <i>Thin Solid Films</i> , <b>2010</b> , 518, 3017-3021	2.2	80
169	Femtosecond-laser-encoded distributed-feedback color center laser in lithium fluoride single crystals. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 311-313	3.4	79
168	Wide-gap layered oxychalcogenide semiconductors: Materials, electronic structures and optoelectronic properties. <i>Thin Solid Films</i> , <b>2006</b> , 496, 8-15	2.2	77
167	Electron field emission from TiO <sub>2</sub> nanotube arrays synthesized by hydrothermal reaction. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 043114	3.4	76
166	A germanate transparent conductive oxide. <i>Nature Communications</i> , <b>2011</b> , 2, 470	17.4	75

- 165 Structural relaxation in amorphous oxide semiconductor, a-In-Ga-Zn-O. *Journal of Applied Physics*, **2012**, 111, 073513 2.5 74
- 164 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. *Journal of Applied Physics*, **2003**, 94, 5805-5808 2.5 74
- 163 Breast cancer stem cells. *Breast Cancer*, **2010**, 17, 80-5 3.4 70
- 162 Electronic structure of oxygen dangling bond in glassy SiO<sub>2</sub>: the role of hyperconjugation. *Physical Review Letters*, **2003**, 90, 186404 7.4 70
- 161 Stability and high-frequency operation of amorphous InGaZnO thin-film transistors with various passivation layers. *Thin Solid Films*, **2012**, 520, 3778-3782 2.2 69
- 160 . *IEEE Electron Device Letters*, **2011**, 32, 1695-1697 4.4 69
- 159 Electromagnetic properties and electronic structure of the iron-based layered superconductor LaFePO. *Physical Review B*, **2008**, 77, 3.3 68
- 158 Josephson junction in cobalt-doped BaFe<sub>2</sub>As<sub>2</sub> epitaxial thin films on (La,Sr)(Al,Ta)O<sub>3</sub> bicrystal substrates. *Applied Physics Letters*, **2010**, 96, 142507 3.4 66
- 157 First-principles study of native point defects in crystalline indium gallium zinc oxide. *Journal of Applied Physics*, **2009**, 105, 093712 2.5 65
- 156 Atomically-flat, chemically-stable, superconducting epitaxial thin film of iron-based superconductor, cobalt-doped BaFe<sub>2</sub>As<sub>2</sub>. *Solid State Communications*, **2009**, 149, 2121-2124 1.6 65
- 155 Intense thermal field electron emission from room-temperature stable electride. *Applied Physics Letters*, **2005**, 87, 254103 3.4 65
- 154 Water-induced superconductivity in SrFe<sub>2</sub>As<sub>2</sub>. *Physical Review B*, **2009**, 80, 3.3 64
- 153 Electronic Structures and Device Applications of Transparent Oxide Semiconductors: What Is the Real Merit of Oxide Semiconductors?. *International Journal of Applied Ceramic Technology*, **2005**, 2, 285-294 60
- 152 Effects of post-annealing on (110) Cu<sub>2</sub>O epitaxial films and origin of low mobility in Cu<sub>2</sub>O thin-film transistor. *Physica Status Solidi (A) Applications and Materials Science*, **2009**, 206, 2192-2197 1.6 59
- 151 Photoelectron Spectroscopic Study of C12A7:e- and Alq<sub>3</sub> Interface: The Formation of a Low Electron-Injection Barrier. *Journal of Physical Chemistry C*, **2007**, 111, 8403-8406 3.8 59
- 150 Optical and Carrier Transport Properties of Cosputtered ZnInSn Films and Their Applications to TFTs. *Journal of the Electrochemical Society*, **2008**, 155, H390 3.9 57
- 149 Large Photoresponse in Amorphous InGaZnO and Origin of Reversible and Slow Decay. *Electrochemical and Solid-State Letters*, **2010**, 13, H324 54
- 148 Growth mechanism for single-crystalline thin film of InGaO<sub>3</sub>(ZnO)<sub>5</sub> by reactive solid-phase epitaxy. *Journal of Applied Physics*, **2004**, 95, 5532-5539 2.5 54

147	Third-order optical nonlinearity originating from room-temperature exciton in layered compounds LaCuOS and LaCuOSe. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 879-881	3.4	52
146	Localized and Delocalized Electrons in Room-Temperature Stable Electride [Ca <sub>24</sub> Al <sub>28</sub> O <sub>64</sub> ] <sup>4+</sup> (O <sub>2</sub> ) <sup>2-</sup> <sub>x</sub> (e <sup>-</sup> ) <sub>2x</sub> : Analysis of Optical Reflectance Spectra. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 4753-4760	3.8	51
145	Amorphous InGaZnO thin-film transistor with coplanar homojunction structure. <i>Thin Solid Films</i> , <b>2009</b> , 518, 1309-1313	2.2	50
144	Mechanism for Heteroepitaxial Growth of Transparent P-Type Semiconductor: LaCuOS by Reactive Solid-Phase Epitaxy. <i>Crystal Growth and Design</i> , <b>2004</b> , 4, 301-307	3.5	50
143	Excitonic blue luminescence from p-LaCuOSe/InGaZnO light-emitting diode at room temperature. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 211107	3.4	50
142	Intrinsic carrier mobility in amorphous InGaZnO thin-film transistors determined by combined field-effect technique. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 262105	3.4	48
141	High electron doping to a wide band gap semiconductor 12CaO/Al <sub>2</sub> O <sub>3</sub> thin film. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 182105	3.4	48
140	Formation of inorganic electride thin films via site-selective extrusion by energetic inert gas ions. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 023510	2.5	48
139	Holographic writing of volume-type microgratings in silica glass by a single chirped laser pulse. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 1137-1139	3.4	48
138	Thin Film Growth and Device Fabrication of Iron-Based Superconductors. <i>Journal of the Physical Society of Japan</i> , <b>2012</b> , 81, 011011	1.5	47
137	Simple Analytical Model of On Operation of Amorphous InGaZnO Thin-Film Transistors. <i>IEEE Transactions on Electron Devices</i> , <b>2011</b> , 58, 3463-3471	2.9	47
136	Thin film fabrication of nano-porous 12CaO/Al <sub>2</sub> O <sub>3</sub> crystal and its conversion into transparent conductive films by light illumination. <i>Thin Solid Films</i> , <b>2003</b> , 445, 309-312	2.2	47
135	Functions of heteromeric association between adenosine and P2Y receptors. <i>Journal of Molecular Neuroscience</i> , <b>2005</b> , 26, 233-8	3.3	47
134	Comprehensive studies on the stabilities of a-In-Ga-Zn-O based thin film transistor by constant current stress. <i>Thin Solid Films</i> , <b>2010</b> , 518, 3012-3016	2.2	45
133	Opto-electronic properties and light-emitting device application of widegap layered oxychalcogenides: LaCuOCh (Ch = chalcogen) and La <sub>2</sub> CdO <sub>2</sub> Se <sub>2</sub> . <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2006</b> , 203, 2800-2811	1.6	45
132	Antiferromagnetic bipolar semiconductor LaMnPO with ZrCuSiAs-type structure. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 093916	2.5	44
131	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> , <b>2014</b> , 3, Q3085-Q3090	3.2	43
130	Operation Characteristics of Thin-Film Transistors Using Very Thin Amorphous InGaZnO Channels. <i>Electrochemical and Solid-State Letters</i> , <b>2011</b> , 14, H197		43



- 129 Low Threshold Voltage and Carrier Injection Properties of Inverted Organic Light-Emitting Diodes with  $[\text{Ca}_{24}\text{Al}_{28}\text{O}_{64}]^{4+}(4\text{e}^-)$  Cathode and  $\text{Cu}_2\text{Se}$  Anode. *Journal of Physical Chemistry C*, **2009**, 113, 18379-18384 3.8 42
- 128 High critical-current density with less anisotropy in  $\text{BaFe}_2(\text{As,P})_2$  epitaxial thin films: Effect of intentionally grown c-axis vortex-pinning centers. *Applied Physics Letters*, **2014**, 104, 182603 3.4 41
- 127 Thin film growth by pulsed laser deposition and properties of 122-type iron-based superconductor  $\text{AE}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$  (AE=alkaline earth). *Superconductor Science and Technology*, **2012**, 25, 084015 3.1 41
- 126 Identical effects of indirect and direct electron doping of superconducting  $\text{BaFe}_2\text{As}_2$  thin films. *Physical Review B*, **2012**, 85, 3.3 41
- 125 ZnO-Based Semiconductors as Building Blocks for Active Devices. *MRS Bulletin*, **2008**, 33, 1061-1066 3.2 41
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- 123 Amorphous  $\text{InGaZnO}$  Dual-Gate TFTs: Current-Voltage Characteristics and Electrical Stress Instabilities. *IEEE Transactions on Electron Devices*, **2012**, 59, 1928-1935 2.9 40
- 122 Calculation of Crystal Structures, Dielectric Constants and Piezoelectric Properties of Wurtzite-Type Crystals Using Ab-Initio Periodic Hartree-Fock Method. *Japanese Journal of Applied Physics*, **1996**, 35, 4421-4426 1.4 39
- 121 Photoluminescence from Au ion-implanted nanoporous single-crystal  $12\text{CaO}\cdot\text{Al}_2\text{O}_3$ . *Physical Review B*, **2006**, 73, 3.3 39
- 120 Field-Induced Current Modulation in Nanoporous Semiconductor, Electron-Doped  $12\text{CaO}\cdot\text{Al}_2\text{O}_3$ . *Chemistry of Materials*, **2005**, 17, 6311-6316 9.6 39
- 119 Heteroepitaxial film growth of layered compounds with the  $\text{ZrCuSiAs}$ -type and  $\text{ThCr}_2\text{Si}_2$ -type structures: From Cu-based semiconductors to Fe-based superconductors. *Physica C: Superconductivity and Its Applications*, **2009**, 469, 657-666 1.3 37
- 118 Origins of hole doping and relevant optoelectronic properties of wide gap p-type semiconductor,  $\text{LaCuOSe}$ . *Journal of the American Chemical Society*, **2010**, 132, 15060-7 16.4 36
- 117 Heteroepitaxial growth of layered semiconductors,  $\text{LaZnOPn}$  (Pn = P and As). *Thin Solid Films*, **2008**, 516, 5800-5804 2.2 36
- 116 Amorphous  $\text{SnGaZnO}$  channel thin-film transistors. *Physica Status Solidi (A) Applications and Materials Science*, **2008**, 205, 1920-1924 1.6 34
- 115 Band alignment of  $\text{InGaZnO}_4/\text{Si}$  interface by hard x-ray photoelectron spectroscopy. *Journal of Applied Physics*, **2012**, 112, 033713 2.5 33
- 114  $\text{Sn}_{0.9}\text{In}_{0.1}\text{P}_2\text{O}_7$ -Based Organic/Inorganic Composite Membranes. *Journal of the Electrochemical Society*, **2007**, 154, B63 3.9 33
- 113 Synthesis of single-phase layered oxychalcogenide  $\text{La}_2\text{CdO}_2\text{Se}_2$ : crystal structure, optical and electrical properties. *Journal of Materials Chemistry*, **2004**, 14, 2946 33
- 112 Wide gap p-type degenerate semiconductor: Mg-doped  $\text{LaCuOSe}$ . *Thin Solid Films*, **2003**, 445, 304-308 2.2 33



111	Microstructure and transport properties of [001]-tilt bicrystal grain boundaries in iron pnictide superconductor, cobalt-doped BaFe <sub>2</sub> As <sub>2</sub> . <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2012</b> , 177, 515-519	3.1	32
110	Superconductivity in noncentrosymmetric ternary equiatomic pnictides LaMP (M = Ir and Rh; P = P and As). <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	32
109	Control of carrier concentration and surface flattening of CuGaO <sub>2</sub> epitaxial films for a p-channel transparent transistor. <i>Thin Solid Films</i> , <b>2008</b> , 516, 5790-5794	2.2	32
108	Effects of low-temperature ozone annealing on operation characteristics of amorphous InGaZnO thin-film transistors. <i>Thin Solid Films</i> , <b>2012</b> , 520, 3787-3790	2.2	30
107	Mobility- and temperature-dependent device model for amorphous InGaZnO thin-film transistors. <i>Thin Solid Films</i> , <b>2014</b> , 559, 40-43	2.2	30
106	Doping effects in amorphous oxides. <i>Journal of the Ceramic Society of Japan</i> , <b>2012</b> , 120, 447-457	1	30
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