

Toshio Kamiya

List of Publications by Year in descending order

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243
papers

31,367
citations

7568

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249
all docs

249
docs citations

249
times ranked

14831
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Room-temperature fabrication of transparent flexible thin-film transistors using amorphous oxide semiconductors. <i>Nature</i> , 2004, 432, 488-492. | 27.8 | 6,503 |
| 2 | Thin-Film Transistor Fabricated in Single-Crystalline Transparent Oxide Semiconductor. <i>Science</i> , 2003, 300, 1269-1272. | 12.6 | 1,709 |
| 3 | Present status of amorphous InGaZnO thin-film transistors. <i>Science and Technology of Advanced Materials</i> , 2010, 11, 044305. | 6.1 | 1,559 |
| 4 | Iron-Based Layered Superconductor: LaOFeP . <i>Journal of the American Chemical Society</i> , 2006, 128, 10012-10013. | 13.7 | 1,207 |
| 5 | High-mobility thin-film transistor with amorphous InGaZnO ₄ channel fabricated by room temperature rf-magnetron sputtering. <i>Applied Physics Letters</i> , 2006, 89, 112123. | 3.3 | 1,048 |
| 6 | Material characteristics and applications of transparent amorphous oxide semiconductors. <i>NPG Asia Materials</i> , 2010, 2, 15-22. | 7.9 | 852 |
| 7 | High-Density Electron Anions in a Nanoporous Single Crystal: $[\text{Ca}_{24}\text{Al}_{28}\text{O}_{64}]_{4+}(4e^-)$. <i>Science</i> , 2003, 301, 626-629. | 12.6 | 744 |
| 8 | Amorphous Oxide Semiconductors for High-Performance Flexible Thin-Film Transistors. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 4303-4308. | 1.5 | 659 |
| 9 | p-channel thin-film transistor using p-type oxide semiconductor, SnO. <i>Applied Physics Letters</i> , 2008, 93, . | 3.3 | 577 |
| 10 | 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> , 2009, 5, 273-288. | 1.2 | 464 |
| 11 | Light-induced conversion of an insulating refractory oxide into a persistent electronic conductor. <i>Nature</i> , 2002, 419, 462-465. | 27.8 | 431 |
| 12 | Carrier transport and electronic structure in amorphous oxide semiconductor, a-InGaZnO ₄ . <i>Thin Solid Films</i> , 2005, 486, 38-41. | 1.8 | 423 |
| 13 | Fabrication and photoresponse of a pn-heterojunction diode composed of transparent oxide semiconductors, p-NiO and n-ZnO. <i>Applied Physics Letters</i> , 2003, 83, 1029-1031. | 3.3 | 329 |
| 14 | Origins of threshold voltage shifts in room-temperature deposited and annealed a-InGaZnO thin-film transistors. <i>Applied Physics Letters</i> , 2009, 95, . | 3.3 | 324 |
| 15 | Modeling of amorphous InGaZnO ₄ thin film transistors and their subgap density of states. <i>Applied Physics Letters</i> , 2008, 92, . | 3.3 | 318 |
| 16 | Subgap states in transparent amorphous oxide semiconductor, InGaZnO, observed by bulk sensitive x-ray photoelectron spectroscopy. <i>Applied Physics Letters</i> , 2008, 92, . | 3.3 | 298 |
| 17 | Trap densities in amorphous-InGaZnO ₄ thin-film transistors. <i>Applied Physics Letters</i> , 2008, 92, . | 3.3 | 290 |
| 18 | Defect passivation and homogenization of amorphous oxide thin-film transistor by wet O ₂ annealing. <i>Applied Physics Letters</i> , 2008, 93, . | 3.3 | 276 |

| # | ARTICLE | IF | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Local coordination structure and electronic structure of the large electron mobility amorphous oxide semiconductor In-Ga-Zn-O: Experiment and <i>ab initio</i> calculations. <i>Physical Review B</i> , 2007, 75, . | 3.2 | 275 |
| 20 | Nickel-Based Oxyphosphide Superconductor with a Layered Crystal Structure, LaNiOP. <i>Inorganic Chemistry</i> , 2007, 46, 7719-7721. | 4.0 | 268 |
| 21 | Crystal Structures, Optoelectronic Properties, and Electronic Structures of Layered Oxychalcogenides M_2CuOCh ($\text{M} = \text{Bi, La}$; $\text{Ch} = \text{S, Se, Te}$): Effects of Electronic Configurations of M^{3+} Ions. <i>Chemistry of Materials</i> , 2008, 20, 326-334. | 6.7 | 258 |
| 22 | Carrier transport in transparent oxide semiconductor with intrinsic structural randomness probed using single-crystalline $\text{InGaO}_3(\text{ZnO})_5$ films. <i>Applied Physics Letters</i> , 2004, 85, 1993-1995. | 3.3 | 247 |
| 23 | Advantageous grain boundaries in iron pnictide superconductors. <i>Nature Communications</i> , 2011, 2, 409. | 12.8 | 246 |
| 24 | Ambipolar Oxide Thin-Film Transistor. <i>Advanced Materials</i> , 2011, 23, 3431-3434. | 21.0 | 236 |
| 25 | Epitaxial growth of high mobility Cu_2O thin films and application to p-channel thin film transistor. <i>Applied Physics Letters</i> , 2008, 93, . | 3.3 | 222 |
| 26 | Combinatorial approach to thin-film transistors using multicomponent semiconductor channels: An application to amorphous oxide semiconductors in In-Ga-Zn-O system. <i>Applied Physics Letters</i> , 2007, 90, 242114. | 3.3 | 219 |
| 27 | 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> , 2009, 5, 462-467. | 1.2 | 219 |
| 28 | Electronic structure of oxygen deficient amorphous oxide semiconductor $\text{In}_{1-x}\text{Ga}_x\text{ZnO}_{4-x}$: Optical analyses and first-principle calculations. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 3098-3100. | 0.8 | 214 |
| 29 | Tin monoxide as an 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. | 1.8 | 213 |
| 30 | Metallic State in a Lime-Alumina Compound with Nanoporous Structure. <i>Nano Letters</i> , 2007, 7, 1138-1143. | 9.1 | 208 |
| 31 | Electronic structure of the amorphous oxide semiconductor $\text{In}_{1-x}\text{Ga}_x\text{ZnO}_{4-x}$: Lorentz optical model and origins of subgap states. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 860-867. | 1.8 | 207 |
| 32 | UV-detector based on pn-heterojunction diode composed of transparent oxide semiconductors, p-NiO/n-ZnO. <i>Thin Solid Films</i> , 2003, 445, 317-321. | 1.8 | 206 |
| 33 | Effects of excess oxygen on operation characteristics of amorphous In-Ga-Zn-O thin-film transistors. <i>Applied Physics Letters</i> , 2011, 99, . | 3.3 | 203 |
| 34 | Specific contact resistances between amorphous oxide semiconductor In-Ga-Zn-O and metallic electrodes. <i>Thin Solid Films</i> , 2008, 516, 5899-5902. | 1.8 | 191 |
| 35 | 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> , 2013, 2, P5-P8. | 1.8 | 191 |
| 36 | Sputtering formation of p-type SnO thin-film transistors on glass toward oxide complimentary circuits. <i>Applied Physics Letters</i> , 2010, 97, . | 3.3 | 189 |

| # | ARTICLE | IF | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Growth, structure and carrier transport properties of Ga ₂ O ₃ epitaxial film examined for transparent field-effect transistor. Thin Solid Films, 2006, 496, 37-41. | 1.8 | 173 |
| 38 | Amorphous InGaZnO coplanar homojunction thin-film transistor. Applied Physics Letters, 2009, 94, 133502. | 3.3 | 168 |
| 39 | Degenerate p-type conductivity in wide-gap LaCuOSi _{1-x} Sex (x=0~1) epitaxial films. Applied Physics Letters, 2003, 82, 1048-1050. | 3.3 | 166 |
| 40 | Amorphous oxide channel TFTs. Thin Solid Films, 2008, 516, 1516-1522. | 1.8 | 166 |
| 41 | Factors controlling electron transport properties in transparent amorphous oxide semiconductors. Journal of Non-Crystalline Solids, 2008, 354, 2796-2800. | 3.1 | 162 |
| 42 | Highly stable amorphous In-Ga-Zn-O thin-film transistors produced by eliminating deep subgap defects. Applied Physics Letters, 2011, 99, . | 3.3 | 156 |
| 43 | Depth analysis of subgap electronic states in amorphous oxide semiconductor, a-In-Ga-Zn-O, studied by hard x-ray photoelectron spectroscopy. Journal of Applied Physics, 2011, 109, 073726. | 2.5 | 151 |
| 44 | Two-Dimensional Transition-Metal Electride Y ₂ C. Chemistry of Materials, 2014, 26, 6638-6643. | 6.7 | 151 |
| 45 | Proton Conduction in In ³⁺ -Doped SnP ₂ O ₇ at Intermediate Temperatures. Journal of the Electrochemical Society, 2006, 153, A1604. | 2.9 | 149 |
| 46 | Subgap states, doping and defect formation energies in amorphous oxide semiconductor a-InGaZnO ₄ studied by density functional theory. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 1698-1703. | 1.8 | 149 |
| 47 | Bipolar Conduction in SnO Thin Films. Electrochemical and Solid-State Letters, 2011, 14, H13. | 2.2 | 148 |
| 48 | Origin of definite Hall voltage and positive slope in mobility-donor density relation in disordered oxide semiconductors. Applied Physics Letters, 2010, 96, . | 3.3 | 139 |
| 49 | Itinerant ferromagnetism in the layered crystals LaCoO_X . Physical Review B, 2008, 77, . | 3.2 | 138 |
| 50 | Field-induced current modulation in epitaxial film of deep-ultraviolet transparent oxide semiconductor Ga ₂ O ₃ . Applied Physics Letters, 2006, 88, 092106. | 3.3 | 137 |
| 51 | Oligomerization of adenosine A _{2A} and dopamine D ₂ receptors in living cells. Biochemical and Biophysical Research Communications, 2003, 306, 544-549. | 2.1 | 133 |
| 52 | Frontier of transparent oxide semiconductors. Solid-State Electronics, 2003, 47, 2261-2267. | 1.4 | 129 |
| 53 | Circuits using uniform TFTs based on amorphous InGaZnO. Journal of the Society for Information Display, 2007, 15, 915-921. | 2.1 | 121 |
| 54 | Fabrication and characterization of heteroepitaxial p-n junction diode composed of wide-gap oxide semiconductors p-ZnRh ₂ O ₄ /n-ZnO. Applied Physics Letters, 2003, 82, 823-825. | 3.3 | 119 |

| # | ARTICLE | IF | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | Nickel-based phosphide superconductor with infinite-layer structure, BaNi ₂ P ₂ . Solid State Communications, 2008, 147, 111-113. | 1.9 | 118 |
| 56 | Hydrogen passivation of electron trap in amorphous In-Ga-Zn-O thin-film transistors. Applied Physics Letters, 2013, 103, . | 3.3 | 112 |
| 57 | Fast Thin-Film Transistor Circuits Based on Amorphous Oxide Semiconductor. IEEE Electron Device Letters, 2007, 28, 273-275. | 3.9 | 110 |
| 58 | Biaxially textured cobalt-doped BaFe ₂ As ₂ films with high critical current density over 1â€MA/cm ² on MgO-buffered metal-tape flexible substrates. Applied Physics Letters, 2011, 98, 242510. | 3.3 | 110 |
| 59 | Superconductivity in Epitaxial Thin Films of Co-Doped SrFe ₂ As ₂ with Bilayered FeAs Structures and their Magnetic Anisotropy. Applied Physics Express, 2008, 1, 101702. | 2.4 | 103 |
| 60 | Nickel-based layered superconductor, LaNiOAs. Journal of Solid State Chemistry, 2008, 181, 2117-2120. | 2.9 | 99 |
| 61 | Femtosecond-laser-encoded distributed-feedback color center laser in lithium fluoride single crystals. Applied Physics Letters, 2004, 84, 311-313. | 3.3 | 97 |
| 62 | Single-atomic-layered quantum wells built in wide-gap semiconductors LnCuOCh (Ln=lanthanide, Ch=chalcogen). Physical Review B, 2004, 69, . | 3.2 | 97 |
| 63 | Optical and electrical properties of amorphous zinc tin oxide thin films examined for thin film transistor application. Journal of Vacuum Science & Technology B, 2008, 26, 495-501. | 1.3 | 96 |
| 64 | Intermediate-Temperature Proton Conduction in Al ³⁺ -Doped SnP ₂ O ₇ . Journal of the Electrochemical Society, 2007, 154, B1265. | 2.9 | 95 |
| 65 | Heavy hole doping of epitaxial thin films of a wide gap p-type semiconductor, LaCuOSe, and analysis of the effective mass. Applied Physics Letters, 2007, 91, . | 3.3 | 91 |
| 66 | Heteroepitaxial growth and optoelectronic properties of layered iron oxyarsenide, LaFeAsO. Applied Physics Letters, 2008, 93, 162504. | 3.3 | 91 |
| 67 | Three-dimensionally stacked flexible integrated circuit: Amorphous oxide/polymer hybrid complementary inverter using n-type a-Inâ€Gaâ€Znâ€O and p-type poly-(9,9-dioctylfluorene-co-bithiophene) thin-film transistors. Applied Physics Letters, 2010, 96, . | 3.3 | 91 |
| 68 | Structural relaxation in amorphous oxide semiconductor, a-In-Ga-Zn-O. Journal of Applied Physics, 2012, 111, . | 2.5 | 90 |
| 69 | Diffusion-Limited a-IGZO/Pt Schottky Junction Fabricated at 200 \$^{\circ}\$C on a Flexible Substrate. IEEE Electron Device Letters, 2011, 32, 1695-1697. | 3.9 | 89 |
| 70 | A germanate transparent conductive oxide. Nature Communications, 2011, 2, 470. | 12.8 | 88 |
| 71 | Wide-gap layered oxychalcogenide semiconductors: Materials, electronic structures and optoelectronic properties. Thin Solid Films, 2006, 496, 8-15. | 1.8 | 86 |
| 72 | Electron field emission from TiO ₂ nanotube arrays synthesized by hydrothermal reaction. Applied Physics Letters, 2006, 89, 043114. | 3.3 | 84 |

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| 73 | Device characteristics improvement of a-In _{0.15} Ga _{0.35} Zn _{0.5} O TFTs by low-temperature annealing. Thin Solid Films, 2010, 518, 3017-3021. | 1.8 | 84 |
| 74 | 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. Applied Physics Express, 2010, 3, 063101. | 2.4 | 83 |
| 75 | Intense thermal field electron emission from room-temperature stable electride. Applied Physics Letters, 2005, 87, 254103. | 3.3 | 81 |
| 76 | Intrinsic excitonic photoluminescence and band-gap engineering of wide-gap-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 | 79 |
| 77 | Stability and high-frequency operation of amorphous In _{0.15} Ga _{0.35} Zn _{0.5} O thin-film transistors with various passivation layers. Thin Solid Films, 2012, 520, 3778-3782. | 1.8 | 78 |
| 78 | Electronic Structure of Oxygen Dangling Bond in GlassySiO ₂ : The Role of Hyperconjugation. Physical Review Letters, 2003, 90, 186404. | 7.8 | 76 |
| 79 | Breast cancer stem cells. Breast Cancer, 2010, 17, 80-85. | 2.9 | 76 |
| 80 | 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. | 2.1 | 72 |
| 81 | First-principles study of native point defects in crystalline indium gallium zinc oxide. Journal of Applied Physics, 2009, 105, . | 2.5 | 72 |
| 82 | Electromagnetic properties and electronic structure of the iron-based layered superconductor LaFePO. Physical Review B, 2008, 77, . | 3.2 | 70 |
| 83 | Water-induced superconductivity inSrFe ₂ As ₂ . Physical Review B, 2009, 80, . | 3.2 | 69 |
| 84 | Interface and bulk effects for bias-light illumination instability in amorphousIn _{0.15} Ga _{0.35} Zn _{0.5} O thin-film transistors. Journal of the Society for Information Display, 2010, 18, 789-795. | 2.1 | 69 |
| 85 | Photoelectron Spectroscopic Study of C12A7:e and Alq ₃ Interface: The Formation of a Low Electron-Injection Barrier. Journal of Physical Chemistry C, 2007, 111, 8403-8406. | 3.1 | 68 |
| 86 | Josephson junction in cobalt-doped BaFe ₂ As ₂ epitaxial thin films on (La,Sr)(Al,Ta)O ₃ bicrystal substrates. Applied Physics Letters, 2010, 96, . | 3.3 | 68 |
| 87 | Atomically-flat, chemically-stable, superconducting epitaxial thin film of iron-based superconductor, cobalt-doped. Solid State Communications, 2009, 149, 2121-2124. | 1.9 | 66 |
| 88 | Effects of post-annealing on (110) Cu ₂ O epitaxial films and origin of low mobility in Cu ₂ O thin-film transistor. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 2192-2197. | 1.8 | 65 |
| 89 | Large Photoresponse in Amorphous In _{0.15} Ga _{0.35} Zn _{0.5} O and Origin of Reversible and Slow Decay. Electrochemical and Solid-State Letters, 2010, 13, H324. | 2.2 | 62 |
| 90 | Holographic writing of volume-type microgratings in silica glass by a single chirped laser pulse. Applied Physics Letters, 2002, 81, 1137-1139. | 3.3 | 58 |

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| 91 | Growth mechanism for single-crystalline thin film of InGaO ₃ (ZnO) ₅ by reactive solid-phase epitaxy. Journal of Applied Physics, 2004, 95, 5532-5539. | 2.5 | 58 |
| 92 | Optical and Carrier Transport Properties of Cosputtered ZnInSnO Films and Their Applications to TFTs. Journal of the Electrochemical Society, 2008, 155, H390. | 2.9 | 57 |
| 93 | Amorphous InGaZn-O thin-film transistor with coplanar homojunction structure. Thin Solid Films, 2009, 518, 1309-1313. | 1.8 | 57 |
| 94 | Third-order optical nonlinearity originating from room-temperature exciton in layered compounds LaCuOS and LaCuOSe. Applied Physics Letters, 2004, 84, 879-881. | 3.3 | 56 |
| 95 | Localized and Delocalized Electrons in Room-Temperature Stable Electride [Ca ₂₄ Al ₂₈ O ₆₄] ⁴⁺ (O ²⁻) ₂ Analysis of Optical Reflectance Spectra. Journal of Physical Chemistry C, 2008, 112, 4753-4760. | 3.1 | 56 |
| 96 | Simple Analytical Model of On Operation of Amorphous InGaZnO Thin-Film Transistors. IEEE Transactions on Electron Devices, 2011, 58, 3463-3471. | 3.0 | 56 |
| 97 | Mechanism for Heteroepitaxial Growth of Transparent P-Type Semiconductor: LaCuOS by Reactive Solid-Phase Epitaxy. Crystal Growth and Design, 2004, 4, 301-307. | 3.0 | 54 |
| 98 | 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. | 1.5 | 53 |
| 99 | Functions of Heteromeric Association Between Adenosine and P2Y Receptors. Journal of Molecular Neuroscience, 2005, 26, 233-238. | 2.3 | 53 |
| 100 | Excitonic blue luminescence from p-LaCuOSe/n-InGaZnO light-emitting diode at room temperature. Applied Physics Letters, 2005, 87, 211107. | 3.3 | 53 |
| 101 | Amorphous InGaZnO Dual-Gate TFTs: Current-Voltage Characteristics and Electrical Stress Instabilities. IEEE Transactions on Electron Devices, 2012, 59, 1928-1935. | 3.0 | 53 |
| 102 | High electron doping to a wide band gap semiconductor 12CaO ⁷ Al ₂ O ₃ thin film. Applied Physics Letters, 2007, 90, 182105. | 3.3 | 52 |
| 103 | Formation of inorganic electride thin films via site-selective extrusion by energetic inert gas ions. Journal of Applied Physics, 2005, 97, 023510. | 2.5 | 51 |
| 104 | Intrinsic carrier mobility in amorphous InGaZnO thin-film transistors determined by combined field-effect technique. Applied Physics Letters, 2010, 96, 262105. | 3.3 | 51 |
| 105 | Thin film fabrication of nano-porous 12CaO ⁷ Al ₂ O ₃ crystal and its conversion into transparent conductive films by light illumination. Thin Solid Films, 2003, 445, 309-312. | 1.8 | 50 |
| 106 | Opto-electronic properties and light-emitting device application of widegap layered oxychalcogenides: LaCuOCh(Ch= chalcogen) and La ₂ CdO ₂ Se ₂ . Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 2800-2811. | 1.8 | 50 |
| 107 | Comprehensive studies on the stabilities of a-In-Ga-Zn-O based thin film transistor by constant current stress. Thin Solid Films, 2010, 518, 3012-3016. | 1.8 | 50 |
| 108 | Thin Film Growth and Device Fabrication of Iron-Based Superconductors. Journal of the Physical Society of Japan, 2012, 81, 011011. | 1.6 | 50 |

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|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 109 | Roles of Hydrogen in Amorphous Oxide Semiconductor In-Ga-Zn-O: Comparison of Conventional and Ultra-High-Vacuum Sputtering. ECS Journal of Solid State Science and Technology, 2014, 3, Q3085-Q3090. | 1.8 | 50 |
| 110 | Low Threshold Voltage and Carrier Injection Properties of Inverted Organic Light-Emitting Diodes with $[\text{Ca}_{24}\text{Al}_{28}\text{O}_{64}]^{4+}$ Cathode and Cu_2Se Anode. Journal of Physical Chemistry C, 2009, 113, 18379-18384. | 3.1 | 49 |
| 111 | Antiferromagnetic bipolar semiconductor LaMnPO with ZrCuSiAs-type structure. Journal of Applied Physics, 2009, 105, 093916. | 2.5 | 47 |
| 112 | Device applications of transparent oxide semiconductors: Excitonic blue LED and transparent flexible TFT. Journal of Electroceramics, 2006, 17, 267-275. | 2.0 | 46 |
| 113 | Operation Characteristics of Thin-Film Transistors Using Very Thin Amorphous In-Ga-Zn-O Channels. Electrochemical and Solid-State Letters, 2011, 14, H197. | 2.2 | 46 |
| 114 | Field-Induced Current Modulation in Nanoporous Semiconductor, Electron-Doped $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$. Chemistry of Materials, 2005, 17, 6311-6316. | 6.7 | 45 |
| 115 | ZnO-Based Semiconductors as Building Blocks for Active Devices. MRS Bulletin, 2008, 33, 1061-1066. | 3.5 | 45 |
| 116 | Origins of Hole Doping and Relevant Optoelectronic Properties of Wide Gap p-Type Semiconductor, LaCuOSe. Journal of the American Chemical Society, 2010, 132, 15060-15067. | 13.7 | 43 |
| 117 | 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, . | 3.3 | 43 |
| 118 | Photoluminescence from Au ion-implanted nanoporous single-crystal $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$. Physical Review B, 2006, 73, . | 3.2 | 42 |
| 119 | Identical effects of indirect and direct electron doping of superconducting $\text{BaFe}_2(\text{As,P})_2$ thin films. Physical Review B, 2012, 85, . | 3.2 | 42 |
| 120 | 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. | 3.5 | 42 |
| 121 | Wide gap p-type degenerate semiconductor: Mg-doped LaCuOSe. Thin Solid Films, 2003, 445, 304-308. | 1.8 | 41 |
| 122 | Heteroepitaxial growth of layered semiconductors, LaZnOPn (Pn=P and As). Thin Solid Films, 2008, 516, 5800-5804. | 1.8 | 40 |
| 123 | Doping effects in amorphous oxides. Journal of the Ceramic Society of Japan, 2012, 120, 447-457. | 1.1 | 40 |
| 124 | Superconductivity in noncentrosymmetric ternary equiatomic pnictides LaMP_3 . Physical Review B, 2010, 81, 020501. | 3.2 | 40 |
| 125 | Control of carrier concentration and surface flattening of CuGaO_2 epitaxial films for a p-channel transparent transistor. Thin Solid Films, 2008, 516, 5790-5794. | 1.8 | 39 |
| 126 | Heteroepitaxial film growth of layered compounds with the ZrCuSiAs-type and ThCr_2Si_2 -type structures: From Cu-based semiconductors to Fe-based superconductors. Physica C: Superconductivity and Its Applications, 2009, 469, 657-666. | 1.2 | 39 |

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|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 127 | Band alignment of InGaZnO ₄ /Si interface by hard x-ray photoelectron spectroscopy. Journal of Applied Physics, 2012, 112, . | 2.5 | 37 |
| 128 | Amorphous SnGaZnO channel thin-film transistors. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1920-1924. | 1.8 | 36 |
| 129 | New functionalities in abundant element oxides: ubiquitous element strategy. Science and Technology of Advanced Materials, 2011, 12, 034303. | 6.1 | 36 |
| 130 | Effects of low-temperature ozone annealing on operation characteristics of amorphous InGaZnO thin-film transistors. Thin Solid Films, 2012, 520, 3787-3790. | 1.8 | 36 |
| 131 | Mobility- and temperature-dependent device model for amorphous InGaZnO thin-film transistors. Thin Solid Films, 2014, 559, 40-43. | 1.8 | 36 |
| 132 | Synthesis of single-phase layered oxychalcogenide La ₂ CdO ₂ Se ₂ : crystal structure, optical and electrical properties. Journal of Materials Chemistry, 2004, 14, 2946. | 6.7 | 35 |
| 133 | Microstructure and transport properties of [001]-tilt bicrystal grain boundaries in iron pnictide superconductor, cobalt-doped BaFe ₂ As ₂ . Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2012, 177, 515-519. | 3.5 | 35 |
| 134 | Sn _{0.9} In _{0.1} P ₂ O ₇ -Based Organic/Inorganic Composite Membranes. Journal of the Electrochemical Society, 2007, 154, B63. http://www.w3.org/1998/Math/MathML | 2.9 | 34 |
| 135 | LaCo_2B_2 A Co-Based Layered Superconductor with a ThCr_2Si_2 Structure. Physical Review Letters, 2011, 106, 237001. | 7.8 | 34 |
| 136 | Magnetic Structure and Electromagnetic Properties of LnCrAsO with a ZrCuSiAs-type Structure (Ln = Tj ETQq0 0 0 rgBT /Overlock 10 Tf | 4.6 | 34 |
| 137 | Optical Properties and Two-Dimensional Electronic Structure in Wide-Gap Layered Oxychalcogenide: La ₂ CdO ₂ Se ₂ . Journal of Physical Chemistry B, 2004, 108, 17344-17351. | 2.6 | 33 |
| 138 | Epitaxial film growth and optoelectrical properties of layered semiconductors, LaMnXO (X=P, As, and Tj ETQq0 0 0 rgBT /Overlock 10 Tf | 2.5 | 33 |
| 139 | Narrow Bandgap in BaZn_2As_2 and Its Chemical Origins. Journal of the American Chemical Society, 2014, 136, 14959-14965. | 13.7 | 33 |
| 140 | Growth of high-quality SnS epitaxial films by H ₂ S flow pulsed laser deposition. Applied Physics Letters, 2014, 104, . | 3.3 | 32 |
| 141 | Fabrication of heteroepitaxial thin films of layered oxychalcogenides LnCuOCh (Ln = LaNd; Ch = Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf | 2.6 | 31 |
| 142 | Solid State Syntheses of $12\text{SrO}\cdot 7\text{Al}_2\text{O}_3$ and Formation of High Density Oxygen Radical Anions, $\text{O}^{\cdot -}$ and $\text{O}_2^{\cdot -}$. Chemistry of Materials, 2008, 20, 5987-5996. | 6.7 | 30 |
| 143 | Thin film and bulk fabrication of room-temperature-stable electride C ₁₂ A ₇ :e ⁻ utilizing reduced amorphous $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$ (C ₁₂ A ₇). Journal of Non-Crystalline Solids, 2008, 354, 2772-2776. | 3.1 | 30 |
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