

Hideo Hosono

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1,325
ext. papers

81,820
ext. citations

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L-index

#	Paper	IF	Citations
1227	Iron-based layered superconductor La[O(1-x)F(x)]FeAs ($x = 0.05-0.12$) with $T(c) = 26$ K. <i>Journal of the American Chemical Society</i> , 2008 , 130, 3296-7	16.4	6586
1226	Room-temperature fabrication of transparent flexible thin-film transistors using amorphous oxide semiconductors. <i>Nature</i> , 2004 , 432, 488-92	50.4	5517
1225	P-type electrical conduction in transparent thin films of CuAlO ₂ . <i>Nature</i> , 1997 , 389, 939-942	50.4	1685
1224	Thin-film transistor fabricated in single-crystalline transparent oxide semiconductor. <i>Science</i> , 2003 , 300, 1269-72	33.3	1534
1223	Present status of amorphous In-Ga-Zn-O thin-film transistors. <i>Science and Technology of Advanced Materials</i> , 2010 , 11, 044305	7.1	1287
1222	Superconductivity at 43 K in an iron-based layered compound LaO(1-x)F(x)FeAs. <i>Nature</i> , 2008 , 453, 376-8	50.4	1056
1221	Iron-based layered superconductor: LaOFeP. <i>Journal of the American Chemical Society</i> , 2006 , 128, 10012-6	36.4	1051
1220	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	3.4	944
1219	Ammonia synthesis using a stable electride as an electron donor and reversible hydrogen store. <i>Nature Chemistry</i> , 2012 , 4, 934-40	17.6	801
1218	Giant thermoelectric Seebeck coefficient of a two-dimensional electron gas in SrTiO ₃ . <i>Nature Materials</i> , 2007 , 6, 129-34	27	794
1217	Ionic amorphous oxide semiconductors: Material design, carrier transport, and device application. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 851-858	3.9	736
1216	Transparent Conducting Oxides for Photovoltaics. <i>MRS Bulletin</i> , 2007 , 32, 242-247	3.2	697
1215	Deep-ultraviolet transparent conductive InGaZnO ₃ thin films. <i>Applied Physics Letters</i> , 2000 , 77, 4166-4168	3.4	688
1214	Material characteristics and applications of transparent amorphous oxide semiconductors. <i>NPG Asia Materials</i> , 2010 , 2, 15-22	10.3	664
1213	High-density electron anions in a nanoporous single crystal: [Ca ₂₄ Al ₂₈ O ₆₄] ⁴⁺ (4e ⁻). <i>Science</i> , 2003 , 301, 626-9	33.3	638
1212	To What Extent Iron-Pnictide New Superconductors Have Been Clarified: A Progress Report. <i>Journal of the Physical Society of Japan</i> , 2009 , 78, 062001	1.5	632
1211	Amorphous Oxide Semiconductors for High-Performance Flexible Thin-Film Transistors. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 4303-4308	1.4	589

1210	Recent progress in transparent oxide semiconductors: Materials and device application. <i>Thin Solid Films</i> , 2007 , 515, 6000-6014	2.2	514
1209	Current injection emission from a transparent p-n junction composed of p-SrCu2O2/n-ZnO. <i>Applied Physics Letters</i> , 2000 , 77, 475-477	3.4	508
1208	p-channel thin-film transistor using p-type oxide semiconductor, SnO. <i>Applied Physics Letters</i> , 2008 , 93, 032113	3.4	491
1207	Synthesis and control of conductivity of ultraviolet transmitting InGa_2O_3 single crystals. <i>Applied Physics Letters</i> , 1997 , 70, 3561-3563	3.4	469
1206	Transparent p-Type Conducting Oxides: Design and Fabrication of p-n Heterojunctions. <i>MRS Bulletin</i> , 2000 , 25, 28-36	3.2	465
1205	Electride support boosts nitrogen dissociation over ruthenium catalyst and shifts the bottleneck in ammonia synthesis. <i>Nature Communications</i> , 2015 , 6, 6731	17.4	400
1204	Light-induced conversion of an insulating refractory oxide into a persistent electronic conductor. <i>Nature</i> , 2002 , 419, 462-5	50.4	386
1203	Carrier transport and electronic structure in amorphous oxide semiconductor, a-InGaZnO4. <i>Thin Solid Films</i> , 2005 , 486, 38-41	2.2	385
1202	Electronic structure and optoelectronic properties of transparent p-type conducting CuAlO_2 . <i>Journal of Applied Physics</i> , 2000 , 88, 4159	2.5	382
1201	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		371
1200	Epitaxial growth of transparent p-type conducting CuGaO_2 thin films on sapphire (001) substrates by pulsed laser deposition. <i>Journal of Applied Physics</i> , 2001 , 89, 1790	2.5	359
1199	SrCu_2O_2 : A p-type conductive oxide with wide band gap. <i>Applied Physics Letters</i> , 1998 , 73, 220-222	3.4	354
1198	Bipolarity in electrical conduction of transparent oxide semiconductor CuInO_2 with delafossite structure. <i>Applied Physics Letters</i> , 2001 , 78, 1583-1585	3.4	309
1197	Evolution from Itinerant Antiferromagnet to Unconventional Superconductor with Fluorine Doping in $\text{LaFeAs}(\text{O}_{1-x}\text{F}_x)$ Revealed by ^{75}As and ^{139}La Nuclear Magnetic Resonance. <i>Journal of the Physical Society of Japan</i> , 2008 , 77, 073701	1.5	298
1196	Origins of threshold voltage shifts in room-temperature deposited and annealed a-InGaZnO thin-film transistors. <i>Applied Physics Letters</i> , 2009 , 95, 013502	3.4	295
1195	Lead-Free Highly Efficient Blue-Emitting Cs_2CuIn with 0D Electronic Structure. <i>Advanced Materials</i> , 2018 , 30, e1804547	24	292
1194	Modeling of amorphous InGaZnO_4 thin film transistors and their subgap density of states. <i>Applied Physics Letters</i> , 2008 , 92, 133503	3.4	289
1193	Large thermoelectric performance of heavily Nb-doped SrTiO_3 epitaxial film at high temperature. <i>Applied Physics Letters</i> , 2005 , 87, 092108	3.4	288

- 1192 Fabrication and photoresponse of a pn-heterojunction diode composed of transparent oxide semiconductors, p-NiO and n-ZnO. *Applied Physics Letters*, **2003**, 83, 1029-1031 3.4 288
- 1191 Photocatalytic TiO₂ thin film deposited onto glass by DC magnetron sputtering. *Thin Solid Films*, **2001**, 392, 338-344 2.2 285
- 1190 Dicalcium nitride as a two-dimensional electride with an anionic electron layer. *Nature*, **2013**, 494, 336-403 5.4 283
- 1189 Nature and origin of the 5-eV band in SiO₂:GeO₂ glasses. *Physical Review B*, **1992**, 46, 11445-11451 3.3 282
- 1188 Anisotropy of electrical and optical properties in EGa₂O₃ single crystals. *Applied Physics Letters*, **1997**, 71, 933-935 3.4 277
- 1187 Transparent p-type semiconductor: LaCuOS layered oxysulfide. *Applied Physics Letters*, **2000**, 77, 2701-2703 3.3 274
- 1186 Subgap states in transparent amorphous oxide semiconductor, InGaZnO, observed by bulk sensitive x-ray photoelectron spectroscopy. *Applied Physics Letters*, **2008**, 92, 202117 3.4 268
- 1185 Transparent oxide optoelectronics. *Materials Today*, **2004**, 7, 42-51 21.8 265
- 1184 Iron-based superconductors: Current status of materials and pairing mechanism. *Physica C: Superconductivity and Its Applications*, **2015**, 514, 399-422 1.3 263
- 1183 A novel phosphor for glareless white light-emitting diodes. *Nature Communications*, **2012**, 3, 1132 17.4 261
- 1182 Trap densities in amorphous-InGaZnO₄ thin-film transistors. *Applied Physics Letters*, **2008**, 92, 133512 3.4 254
- 1181 Local coordination structure and electronic structure of the large electron mobility amorphous oxide semiconductor In-Ga-Zn-O: Experiment and ab initio calculations. *Physical Review B*, **2007**, 75, 3.3 252
- 1180 Nickel-based oxyphosphide superconductor with a layered crystal structure, LaNiOP. *Inorganic Chemistry*, **2007**, 46, 7719-21 5.1 245
- 1179 Defect passivation and homogenization of amorphous oxide thin-film transistor by wet O₂ annealing. *Applied Physics Letters*, **2008**, 93, 192107 3.4 243
- 1178 Two types of oxygen-deficient centers in synthetic silica glass. *Physical Review B*, **1988**, 38, 12772-12775 3.3 239
- 1177 Highly Efficient Blue-Emitting Bi-Doped Cs₂SnCl₆ Perovskite Variant: Photoluminescence Induced by Impurity Doping. *Advanced Functional Materials*, **2018**, 28, 1801131 15.6 239
- 1176 Highly electrically conductive indium oxide thin films epitaxially grown on yttria-stabilized zirconia (100) by pulsed-laser deposition. *Applied Physics Letters*, **2000**, 76, 2740-2742 3.4 238
- 1175 Preparation of highly conductive, deep ultraviolet transparent EGa₂O₃ thin film at low deposition temperatures. *Thin Solid Films*, **2002**, 411, 134-139 2.2 237

1174	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, 468-483		235
1173	Carrier transport in transparent oxide semiconductor with intrinsic structural randomness probed using single-crystalline InGaO ₃ (ZnO) ₅ films. <i>Applied Physics Letters</i> , 2004 , 85, 1993-1995	3.4	229
1172	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
1171	Advantageous grain boundaries in iron pnictide superconductors. <i>Nature Communications</i> , 2011 , 2, 409	17.4	212
1170	Crystallographic phase transition and high-T _c superconductivity in LaFeAsO:F. <i>Superconductor Science and Technology</i> , 2008 , 21, 125028	3.1	212
1169	Novel oxide amorphous semiconductors: transparent conducting amorphous oxides. <i>Journal of Non-Crystalline Solids</i> , 1996 , 203, 334-344	3.9	212
1168	Ambipolar oxide thin-film transistor. <i>Advanced Materials</i> , 2011 , 23, 3431-4	24	207
1167	Recent advances in iron-based superconductors toward applications. <i>Materials Today</i> , 2018 , 21, 278-302	21.8	200
1166	Combinatorial approach to thin-film transistors using multicomponent semiconductor channels: An application to amorphous oxide semiconductors in InGaZnO system. <i>Applied Physics Letters</i> , 2007 , 90, 242114	3.4	200
1165	Microporous crystal 12CaO x 7Al(2)O(3) encaging abundant O(-) radicals. <i>Journal of the American Chemical Society</i> , 2002 , 124, 738-9	16.4	197
1164	Epitaxial growth of high mobility Cu ₂ O thin films and application to p-channel thin film transistor. <i>Applied Physics Letters</i> , 2008 , 93, 202107	3.4	193
1163	Electronic structure of oxygen deficient amorphous oxide semiconductor a-InGaZnO _{4-x} : Optical analyses and first-principle calculations. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008 , 5, 3098-3100		187
1162	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
1161	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		185
1160	Fabrication of transparent p-n heterojunction thin film diodes based entirely on oxide semiconductors. <i>Applied Physics Letters</i> , 1999 , 75, 2851-2853	3.4	184
1159	Electronic structure of the amorphous oxide semiconductor a-InGaZnO _{4-x} : Tauc Lorentz optical model and origins of subgap states. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009 , 206, 860-867	1.6	183
1158	Metallic state in a lime-alumina compound with nanoporous structure. <i>Nano Letters</i> , 2007 , 7, 1138-43	11.5	183
1157	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	2.2	183

- 1156 Superconductivity induced by co-doping in quaternary fluoroarsenide CaFeAsF. *Journal of the American Chemical Society*, **2008**, 130, 14428-9 16.4 181
- 1155 Band-gap widening of CdO thin films. *Journal of Applied Physics*, **1998**, 84, 6174-6177 2.5 180
- 1154 Electron localization and a confined electron gas in nanoporous inorganic electrides. *Physical Review Letters*, **2003**, 91, 126401 7.4 177
- 1153 Work Function of a Room-Temperature, Stable Electride [Ca₂₄Al₂₈O₆₄]^{4+(e)}. *Advanced Materials*, **2007**, 19, 3564-3569 24 176
- 1152 Two-dome structure in electron-doped iron arsenide superconductors. *Nature Communications*, **2012**, 3, 943 17.4 174
- 1151 Working hypothesis to explore novel wide band gap electrically conducting amorphous oxides and examples. *Journal of Non-Crystalline Solids*, **1996**, 198-200, 165-169 3.9 172
- 1150 Specific contact resistances between amorphous oxide semiconductor InGaZnO and metallic electrodes. *Thin Solid Films*, **2008**, 516, 5899-5902 2.2 171
- 1149 Single-Crystalline Films of the Homologous Series InGaO₃(ZnO)_m Grown by Reactive Solid-Phase Epitaxy. *Advanced Functional Materials*, **2003**, 13, 139-144 15.6 171
- 1148 Effects of excess oxygen on operation characteristics of amorphous In-Ga-Zn-O thin-film transistors. *Applied Physics Letters*, **2011**, 99, 093507 3.4 166
- 1147 Sputtering formation of p-type SnO thin-film transistors on glass toward oxide complimentary circuits. *Applied Physics Letters*, **2010**, 97, 072111 3.4 165
- 1146 Water Durable Electride YBi Electronic Structure and Catalytic Activity for Ammonia Synthesis. *Journal of the American Chemical Society*, **2016**, 138, 3970-3 16.4 159
- 1145 Fabrication and characterization of ultraviolet-emitting diodes composed of transparent p-n heterojunction, p-SrCu₂O₂ and n-ZnO. *Journal of Applied Physics*, **2001**, 89, 5720-5725 2.5 159
- 1144 Amorphous oxide channel TFTs. *Thin Solid Films*, **2008**, 516, 1516-1522 2.2 155
- 1143 Degenerate p-type conductivity in wide-gap LaCuOS_{1-x}Sex (x=0) epitaxial films. *Applied Physics Letters*, **2003**, 82, 1048-1050 3.4 155
- 1142 Superconductivity under High Pressure in LaFeAsO. *Journal of the Physical Society of Japan*, **2008**, 77, 113712 1.5 154
- 1141 Occurrence of superoxide radical ion in crystalline calcium aluminate 12CaO.7Al₂O₃ prepared via solid-state reactions. *Inorganic Chemistry*, **1987**, 26, 1192-1195 5.1 153
- 1140 Effects of Diffusion of Hydrogen and Oxygen on Electrical Properties of Amorphous Oxide Semiconductor, In-Ga-Zn-O. *ECS Journal of Solid State Science and Technology*, **2013**, 2, P5-P8 2 152
- 1139 Factors controlling electron transport properties in transparent amorphous oxide semiconductors. *Journal of Non-Crystalline Solids*, **2008**, 354, 2796-2800 3.9 152

1138	A Possible Ground State and Its Electronic Structure of a Mother Material (LaOFeAs) of New Superconductors. <i>Journal of the Physical Society of Japan</i> , 2008 , 77, 053709	1.5	151
1137	Amorphous InGaZnO coplanar homojunction thin-film transistor. <i>Applied Physics Letters</i> , 2009 , 94, 133502	3.4	150
1136	Superconductivity in an inorganic electride $12\text{CaO} \times 7\text{Al}_2\text{O}_3:e^-$. <i>Journal of the American Chemical Society</i> , 2007 , 129, 7270-1	16.4	150
1135	Ternary intermetallic LaCoSi as a catalyst for N_2 activation. <i>Nature Catalysis</i> , 2018 , 1, 178-185	36.5	149
1134	Two-photon processes in defect formation by excimer lasers in synthetic silica glass. <i>Applied Physics Letters</i> , 1988 , 53, 1891-1893	3.4	149
1133	Intrinsic defects in a photovoltaic perovskite variant Cs_2SnI_6 . <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 18900-3	3.6	148
1132	Field Emission of Electron Anions Clathrated in Subnanometer-Sized Cages in $[\text{Ca}_{24}\text{Al}_{28}\text{O}_{64}]^{4+}(4e^-)$ <i>Advanced Materials</i> , 2004 , 16, 685-689	24	146
1131	Growth, structure and carrier transport properties of Ga_2O_3 epitaxial film examined for transparent field-effect transistor. <i>Thin Solid Films</i> , 2006 , 496, 37-41	2.2	142
1130	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
1129	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> , 2011 , 109, 073726	2.5	141
1128	Highly stable amorphous In-Ga-Zn-O thin-film transistors produced by eliminating deep subgap defects. <i>Applied Physics Letters</i> , 2011 , 99, 053505	3.4	139
1127	Frontier of transparent conductive oxide thin films. <i>Vacuum</i> , 2002 , 66, 419-425	3.7	139
1126	A p-Type Amorphous Oxide Semiconductor and Room Temperature Fabrication of Amorphous Oxide p-n Heterojunction Diodes. <i>Advanced Materials</i> , 2003 , 15, 1409-1413	24	138
1125	Essential role of hydride ion in ruthenium-based ammonia synthesis catalysts. <i>Chemical Science</i> , 2016 , 7, 4036-4043	9.4	138
1124	Discovery of earth-abundant nitride semiconductors by computational screening and high-pressure synthesis. <i>Nature Communications</i> , 2016 , 7, 11962	17.4	133
1123	Bipolar Conduction in SnO Thin Films. <i>Electrochemical and Solid-State Letters</i> , 2011 , 14, H13		132
1122	Chemical Design and Thin Film Preparation of p-Type Conductive Transparent Oxides 2000 , 4, 407-414		132
1121	Itinerant ferromagnetism in the layered crystals LaCoOX ($X=\text{P,As}$). <i>Physical Review B</i> , 2008 , 77,	3.3	129

1120	Vacancy-enabled N activation for ammonia synthesis on an Ni-loaded catalyst. <i>Nature</i> , 2020 , 583, 391-395	50.4	129
1119	Photochemical reactions in GeO ₂ -SiO ₂ glasses induced by ultraviolet irradiation: Comparison between Hg lamp and excimer laser. <i>Physical Review B</i> , 1995 , 52, 1661-1665	3.3	128
1118	Subgap states, doping and defect formation energies in amorphous oxide semiconductor a-InGaZnO ₄ studied by density functional theory. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 1698-1703	1.6	127
1117	Activation and splitting of carbon dioxide on the surface of an inorganic electride material. <i>Nature Communications</i> , 2013 , 4, 2378	17.4	126
1116	Ru-Loaded C12A7:e ⁻ Electride as a Catalyst for Ammonia Synthesis. <i>ACS Catalysis</i> , 2017 , 7, 2313-2324	13.1	125
1115	Room-temperature excitons in wide-gap layered-oxysulfide semiconductor: LaCuOS. <i>Applied Physics Letters</i> , 2001 , 78, 2333-2335	3.4	125
1114	Experimental evidence for the Si-Si bond model of the 7.6-eV band in SiO ₂ glass. <i>Physical Review B</i> , 1991 , 44, 12043-12045	3.3	125
1113	Frontier of transparent oxide semiconductors. <i>Solid-State Electronics</i> , 2003 , 47, 2261-2267	1.7	123
1112	Physical disorder and optical properties in the vacuum ultraviolet region of amorphous SiO(2). <i>Physical Review Letters</i> , 2001 , 87, 175501	7.4	123
1111	Fabrication of all oxide transparent p ⁻ homojunction using bipolar CuInO ₂ semiconducting oxide with delafossite structure. <i>Solid State Communications</i> , 2001 , 121, 15-17	1.6	122
1110	Origin of definite Hall voltage and positive slope in mobility-donor density relation in disordered oxide semiconductors. <i>Applied Physics Letters</i> , 2010 , 96, 122103	3.4	121
1109	Mechano-catalytic overall water splitting. <i>Chemical Communications</i> , 1998 , 2185-2186	5.8	121
1108	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
1107	Two-Dimensional Transition-Metal Electride Y ₂ C. <i>Chemistry of Materials</i> , 2014 , 26, 6638-6643	9.6	113
1106	Fabrication and characterization of heteroepitaxial p-n junction diode composed of wide-gap oxide semiconductors p-ZnRh ₂ O ₄ /n-ZnO. <i>Applied Physics Letters</i> , 2003 , 82, 823-825	3.4	112
1105	Natural van der Waals heterostructural single crystals with both magnetic and topological properties. <i>Science Advances</i> , 2019 , 5, eaax9989	14.3	111
1104	Nickel-based phosphide superconductor with infinite-layer structure, BaNi ₂ P ₂ . <i>Solid State Communications</i> , 2008 , 147, 111-113	1.6	110
1103	Crystal structure of metastable ϵ -CeZrO ₄ phase possessing an ordered arrangement of Ce and Zr ions. <i>Journal of Alloys and Compounds</i> , 2000 , 312, 94-103	5.7	110

1102	Solvated electrons in high-temperature melts and glasses of the room-temperature stable electride [CaAl ₁₀ Fe ₂]. <i>Science</i> , 2011 , 333, 71-4	33.3	109
1101	Electronic structure of the transparent p-type semiconductor (LaO)CuS. <i>Physical Review B</i> , 2001 , 64,	3.3	108
1100	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
1099	From insulator to electride: a theoretical model of nanoporous oxide 12CaO.7Al ₂ O ₃ . <i>Journal of the American Chemical Society</i> , 2007 , 129, 942-51	16.4	105
1098	Experimental Evidence for Frenkel Defect Formation in Amorphous SiO ₂ by Electronic Excitation. <i>Physical Review Letters</i> , 1998 , 80, 317-320	7.4	105
1097	Ammonia decomposition by ruthenium nanoparticles loaded on inorganic electride C12A7:e [□] <i>Chemical Science</i> , 2013 , 4, 3124	9.4	104
1096	Formation and Characterization of Hydrogen Boride Sheets Derived from MgB by Cation Exchange. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13761-13769	16.4	104
1095	Fast Thin-Film Transistor Circuits Based on Amorphous Oxide Semiconductor. <i>IEEE Electron Device Letters</i> , 2007 , 28, 273-275	4.4	104
1094	Decomposition of water by a CaTiO ₃ photocatalyst under UV light irradiation. <i>Materials Research Bulletin</i> , 2002 , 37, 2401-2406	5.1	104
1093	Surface morphology and crystal quality of low resistive indium tin oxide grown on yttria-stabilized zirconia. <i>Journal of Applied Physics</i> , 2002 , 91, 3547-3550	2.5	104
1092	Electronic Defects in Amorphous Oxide Semiconductors: A Review. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1800372	1.6	103
1091	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
1090	ZnRh ₂ O ₄ : A p-type semiconducting oxide with a valence band composed of a low spin state of Rh ³⁺ in a 4d ⁶ configuration. <i>Applied Physics Letters</i> , 2002 , 80, 1207-1209	3.4	100
1089	Efficient and Stable Ammonia Synthesis by Self-Organized Flat Ru Nanoparticles on Calcium Amide. <i>ACS Catalysis</i> , 2016 , 6, 7577-7584	13.1	100
1088	Pseudoisotropic upper critical field in cobalt-doped SrFe ₂ As ₂ epitaxial films. <i>Physical Review Letters</i> , 2009 , 102, 117004	7.4	99
1087	Self-organized Ruthenium-Barium Core-Shell Nanoparticles on a Mesoporous Calcium Amide Matrix for Efficient Low-Temperature Ammonia Synthesis. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2648-2652	16.4	98
1086	Superconducting Gap and Pseudogap in Iron-Based Layered Superconductor La(O _{1-x} F _x)FeAs. <i>Journal of the Physical Society of Japan</i> , 2008 , 77, 063708	1.5	98
1085	Spin Ordering in LaFeAsO and Its Suppression in Superconductor LaFeAsO _{0.89} F _{0.11} Probed by Mössbauer Spectroscopy. <i>Journal of the Physical Society of Japan</i> , 2008 , 77, 103706	1.5	97

1084	Fabrication of surface relief gratings on transparent dielectric materials by two-beam holographic method using infrared femtosecond laser pulses. <i>Applied Physics B: Lasers and Optics</i> , 2000 , 71, 119-121	1.9	97
1083	Bipartite magnetic parent phases in the iron oxypnictide superconductor. <i>Nature Physics</i> , 2014 , 10, 300-302	10.2	96
1082	Hydrogen in layered iron arsenides: Indirect electron doping to induce superconductivity. <i>Physical Review B</i> , 2011 , 84,	3.3	96
1081	Heteroepitaxial growth of a wide-gap p-type semiconductor, LaCuOS. <i>Applied Physics Letters</i> , 2002 , 81, 598-600	3.4	96
1080	Synthesis of a Room Temperature Stable $12\text{CaO} \cdot 7\text{Al}_2\text{O}_3$ Electride from the Melt and Its Application as an Electron Field Emitter. <i>Chemistry of Materials</i> , 2006 , 18, 1938-1944	9.6	94
1079	Long lasting phosphorescence and photostimulated luminescence in Tb-ion-activated reduced calcium aluminate glasses. <i>Journal of Applied Physics</i> , 1999 , 86, 3729-3733	2.5	94
1078	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
1077	Protonic conduction in oxide glasses: Simple relations between electrical conductivity, activation energy, and the O-H bonding state. <i>Physical Review B</i> , 1988 , 38, 10166-10169	3.3	92
1076	Band gap engineering, band edge emission, and p-type conductivity in wide-gap $\text{LaCuOS}_{1-x}\text{Sex}$ oxychalcogenides. <i>Journal of Applied Physics</i> , 2002 , 91, 4768-4770	2.5	90
1075	Optical and electrical properties of amorphous zinc tin oxide thin films examined for thin film transistor application. <i>Journal of Vacuum Science & Technology B</i> , 2008 , 26, 495		89
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