

Hiromichi Ohta

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265
papers

20,465
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57
h-index

141
g-index

291
ext. papers

22,260
ext. citations

5.6
avg, IF

6.53
L-index

#	Paper	IF	Citations
265	Room-temperature fabrication of transparent flexible thin-film transistors using amorphous oxide semiconductors. <i>Nature</i> , 2004 , 432, 488-92	50.4	5517
264	Thin-film transistor fabricated in single-crystalline transparent oxide semiconductor. <i>Science</i> , 2003 , 300, 1269-72	33.3	1534
263	Giant thermoelectric Seebeck coefficient of a two-dimensional electron gas in SrTiO ₃ . <i>Nature Materials</i> , 2007 , 6, 129-34	27	794
262	Deep-ultraviolet transparent conductive ZnGa ₂ O ₄ thin films. <i>Applied Physics Letters</i> , 2000 , 77, 4166-4168	3.4	688
261	Amorphous Oxide Semiconductors for High-Performance Flexible Thin-Film Transistors. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 4303-4308	1.4	589
260	Current injection emission from a transparent p-n junction composed of p-SrCu ₂ O ₂ /n-ZnO. <i>Applied Physics Letters</i> , 2000 , 77, 475-477	3.4	508
259	High-temperature carrier transport and thermoelectric properties of heavily La- or Nb-doped SrTiO ₃ single crystals. <i>Journal of Applied Physics</i> , 2005 , 97, 034106	2.5	447
258	Carrier transport and electronic structure in amorphous oxide semiconductor, a-InGaZnO ₄ . <i>Thin Solid Films</i> , 2005 , 486, 38-41	2.2	385
257	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
256	Reversible redox reactions in an epitaxially stabilized SrCoO(x) oxygen sponge. <i>Nature Materials</i> , 2013 , 12, 1057-63	27	290
255	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
254	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	3.4	288
253	Recent progress in oxide thermoelectric materials: p-type Ca ₃ Co ₄ O ₉ and n-type SrTiO ₃ (-). <i>Inorganic Chemistry</i> , 2008 , 47, 8429-36	5.1	278
252	Transparent oxide optoelectronics. <i>Materials Today</i> , 2004 , 7, 42-51	21.8	265
251	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> , 2007 , 75,	3.3	252
250	Defect passivation and homogenization of amorphous oxide thin-film transistor by wet O ₂ annealing. <i>Applied Physics Letters</i> , 2008 , 93, 192107	3.4	243
249	Highly electrically conductive indium tin oxide thin films epitaxially grown on yttria-stabilized zirconia (100) by pulsed-laser deposition. <i>Applied Physics Letters</i> , 2000 , 76, 2740-2742	3.4	238

248	Preparation of highly conductive, deep ultraviolet transparent InGaO_3 thin film at low deposition temperatures. <i>Thin Solid Films</i> , 2002 , 411, 134-139	2.2	237
247	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	3.4	229
246	Thermoelectrical properties of A-site substituted $\text{Ca}_{1-x}\text{RexMnO}_3$ system. <i>Journal of Applied Physics</i> , 2006 , 100, 084911	2.5	201
245	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
244	Thermoelectric Properties of Homologous Compounds in the $\text{ZnO}/\text{In}_2\text{O}_3$ System. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 2193-2196	3.8	178
243	Single-Crystalline Films of the Homologous Series $\text{InGaO}_3(\text{ZnO})_m$ Grown by Reactive Solid-Phase Epitaxy. <i>Advanced Functional Materials</i> , 2003 , 13, 139-144	15.6	171
242	Topotactic phase transformation of the brownmillerite $\text{SrCoO}_{2.5}$ to the perovskite SrCoO_3 - δ . <i>Advanced Materials</i> , 2013 , 25, 3651-6	24	165
241	Fabrication and characterization of ultraviolet-emitting diodes composed of transparent p-n heterojunction, p-SrCu $_2$ O $_2$ and n-ZnO. <i>Journal of Applied Physics</i> , 2001 , 89, 5720-5725	2.5	159
240	Degenerate p-type conductivity in wide-gap LaCuOS $_{1-x}$ Sex ($x=0\text{--}1$) epitaxial films. <i>Applied Physics Letters</i> , 2003 , 82, 1048-1050	3.4	155
239	Atomic structure of a CeO $_2$ grain boundary: the role of oxygen vacancies. <i>Nano Letters</i> , 2010 , 10, 4668-721.5	11.5	143
238	Frontier of transparent conductive oxide thin films. <i>Vacuum</i> , 2002 , 66, 419-425	3.7	139
237	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
236	Grain Size Dependence of Thermoelectric Performance of Nb-Doped SrTiO $_3$ Polycrystals. <i>Journal of the Ceramic Society of Japan</i> , 2006 , 114, 102-105		132
235	Thermoelectrics based on strontium titanate. <i>Materials Today</i> , 2007 , 10, 44-49	21.8	128
234	Frontier of transparent oxide semiconductors. <i>Solid-State Electronics</i> , 2003 , 47, 2261-2267	1.7	123
233	Fabrication of all oxide transparent p-n homojunction using bipolar CuInO $_2$ semiconducting oxide with delafossite structure. <i>Solid State Communications</i> , 2001 , 121, 15-17	1.6	122
232	Enhanced effective mass in doped SrTiO $_3$ and related perovskites. <i>Physica B: Condensed Matter</i> , 2009 , 404, 2202-2212	2.8	121
231	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

230	TiO ₂ nanoparticles prepared using an aqueous peroxotitanate solution. <i>Ceramics International</i> , 2004 , 30, 1365-1368	5.1	104
229	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
228	Room-Temperature Preparation of ZrO ₂ Precursor Thin Film in an Aqueous Peroxozirconium-Complex Solution. <i>Chemistry of Materials</i> , 2004 , 16, 2615-2622	9.6	99
227	Heteroepitaxial growth of a wide-gap p-type semiconductor, LaCuOS. <i>Applied Physics Letters</i> , 2002 , 81, 598-600	3.4	96
226	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
225	Electrical and Optical Properties and Electronic Structures of LnCuOS (Ln = La~Nd). <i>Chemistry of Materials</i> , 2003 , 15, 3692-3695	9.6	84
224	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
223	Ruddlesden-Popper phases as thermoelectric oxides: Nb-doped SrO(SrTiO ₃) _n (n=1,2). <i>Journal of Applied Physics</i> , 2006 , 100, 063717	2.5	82
222	Coherent and Incoherent Excitations of Electron-Doped SrTiO ₃ . <i>Physical Review Letters</i> , 2008 , 100, 056401	11	77
221	Enhanced Seebeck coefficient of quantum-confined electrons in SrTiO ₃ BrTi _{0.8} Nb _{0.2} O ₃ superlattices. <i>Applied Physics Letters</i> , 2007 , 91, 192105	3.4	75
220	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
219	Unusually large enhancement of thermopower in an electric field induced two-dimensional electron gas. <i>Advanced Materials</i> , 2012 , 24, 740-4	24	71
218	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
217	Topotactic Metal-Insulator Transition in Epitaxial SrFeO Thin Films. <i>Advanced Materials</i> , 2017 , 29, 1606564	64	67
216	Near-UV emitting diodes based on a transparent p-n junction composed of heteroepitaxially grown p-SrCu ₂ O ₂ and n-Zno. <i>Journal of Crystal Growth</i> , 2002 , 237-239, 496-502	1.6	67
215	Field-induced water electrolysis switches an oxide semiconductor from an insulator to a metal. <i>Nature Communications</i> , 2010 , 1, 118	17.4	65
214	Thermoelectric properties of electron doped SrO(SrTiO ₃) _n (n=1,2) ceramics. <i>Journal of Applied Physics</i> , 2009 , 105, 103701	2.5	65
213	Thermoelectric phase diagram in a CaTiO ₃ BrTiO ₃ BaTiO ₃ system. <i>Applied Physics Letters</i> , 2007 , 90, 072101	3.4	63

212	High electrical conductivity of layered cobalt oxide Ca ₃ Co ₄ O ₉ epitaxial films grown by topotactic ion-exchange method. <i>Applied Physics Letters</i> , 2006 , 89, 032111	3.4	59
211	Electronic structure and optical properties of SrCu ₂ O ₂ . <i>Journal of Applied Physics</i> , 2002 , 91, 3074-3078	2.5	59
210	Reactive Solid-Phase Epitaxial Growth of Na _x CoO ₂ (x ~ 0.83) via Lateral Diffusion of Na into a Cobalt Oxide Epitaxial Layer. <i>Crystal Growth and Design</i> , 2005 , 5, 25-28	3.5	57
209	Atomic structure of [0001]-tilt grain boundaries in ZnO: A high-resolution TEM study of fiber-textured thin films. <i>Physical Review B</i> , 2004 , 70,	3.3	56
208	Growth mechanism for single-crystalline thin film of InGaO ₃ (ZnO) ₅ by reactive solid-phase epitaxy. <i>Journal of Applied Physics</i> , 2004 , 95, 5532-5539	2.5	54
207	Electrical Properties and Structure of p-Type Amorphous Oxide Semiconductor xZnO/Rh ₂ O ₃ . <i>Advanced Functional Materials</i> , 2005 , 15, 968-974	15.6	54
206	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
205	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
204	Excitonic blue luminescence from p-LaCuOSe/InGaZn ₅ O ₈ light-emitting diode at room temperature. <i>Applied Physics Letters</i> , 2005 , 87, 211107	3.4	50
203	Field-modulated thermopower in SrTiO ₃ -based field-effect transistors with amorphous 12CaO?7Al ₂ O ₃ glass gate insulator. <i>Applied Physics Letters</i> , 2009 , 95, 113505	3.4	48
202	Transparent Organic Thin-Film Transistor with a Laterally Grown Non-Planar Phthalocyanine Channel. <i>Advanced Materials</i> , 2004 , 16, 312-316	24	48
201	Enhancing the electron mobility via delta-doping in SrTiO ₃ . <i>Applied Physics Letters</i> , 2010 , 97, 222115	3.4	47
200	Atomic and electronic structures of Cu/a-Al ₂ O ₃ interfaces prepared by pulsed-laser deposition. <i>Science and Technology of Advanced Materials</i> , 2003 , 4, 575-584	7.1	47
199	Atomic structures and oxygen dynamics of CeO ₂ grain boundaries. <i>Scientific Reports</i> , 2016 , 6, 20288	4.9	46
198	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
197	Enhanced thermoelectric power in two-dimensional transition metal dichalcogenide monolayers. <i>Physical Review B</i> , 2016 , 94,	3.3	45
196	UV-emitting diode composed of transparent oxide semiconductors: p-SrCu ₂ O ₂ /n-ZnO. <i>Electronics Letters</i> , 2000 , 36, 984	1.1	42
195	Thermoelectric properties of a semicrystalline polymer doped beyond the insulator-to-metal transition by electrolyte gating. <i>Science Advances</i> , 2020 , 6, eaay8065	14.3	40

194	Atomic and Electronic Structures of Ni/YSZ(111) Interface. <i>Materials Transactions</i> , 2004 , 45, 2137-2143	1.3	40
193	Fabrication and thermoelectric properties of heavily rare-earth metal-doped SrO(SrTiO ₃) _n (n = 1, 2) ceramics. <i>Ceramics International</i> , 2008 , 34, 849-852	5.1	37
192	Relationship between non-localized tail states and carrier transport in amorphous oxide semiconductor, In _{0.7} Ga _{0.3} ZnO. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008 , 205, 1910-1914	1.6	36
191	Thermal diffusivity measurements of molten salts using a three-layered cell by the laser flash method. <i>Review of Scientific Instruments</i> , 1990 , 61, 2645-2649	1.7	36
190	Double thermoelectric power factor of a 2D electron system. <i>Nature Communications</i> , 2018 , 9, 2224	17.4	35
189	Novel film growth technique of single crystalline In ₂ O ₃ (ZnO) _m (m=integer) homologous compound. <i>Thin Solid Films</i> , 2002 , 411, 147-151	2.2	35
188	High Thermoelectric Power Factor of High-Mobility 2D Electron Gas. <i>Advanced Science</i> , 2018 , 5, 1700696	13.6	35
187	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
186	Wide gap p-type degenerate semiconductor: Mg-doped LaCuOSe. <i>Thin Solid Films</i> , 2003 , 445, 304-308	2.2	33
185	Polaron Transport and Thermoelectric Behavior in La-Doped SrTiO ₃ Thin Films with Elemental Vacancies. <i>Advanced Functional Materials</i> , 2015 , 25, 799-804	15.6	32
184	A transparent electrochromic metal-insulator switching device with three-terminal transistor geometry. <i>Scientific Reports</i> , 2016 , 6, 25819	4.9	32
183	Critical thickness for giant thermoelectric Seebeck coefficient of 2DEG confined in SrTiO ₃ /SrTi _{0.8} Nb _{0.2} O ₃ superlattices. <i>Thin Solid Films</i> , 2008 , 516, 5916-5920	2.2	30
182	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
181	Dimensional crossover of polaron dynamics in Nb:SrTiO ₃ /SrTiO ₃ superlattices: Possible mechanism of thermopower enhancement. <i>Physical Review B</i> , 2010 , 82,	3.3	29
180	Graphene Substrate for van der Waals Epitaxy of Layer-Structured Bismuth Antimony Telluride Thermoelectric Film. <i>Advanced Materials</i> , 2017 , 29, 1604899	24	28
179	Thermoelectric Properties of (ZnO) ₅ In ₂ O ₃ Thin Films Prepared by r.f. Sputtering Method.. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 1997 , 44, 44-49	0.2	28
178	Thermoelectric properties of layered perovskite-type (Sr _{1-x} Cax) ₃ (Ti _{1-y} Nby) ₂ O ₇ . <i>Journal of Applied Physics</i> , 2007 , 101, 083707	2.5	28
177	Li-Doped NiO Epitaxial Thin Film with Atomically Flat Surface. <i>Journal of Materials Research</i> , 2004 , 19, 913-920	2.5	28

176	Fabrication of heteroepitaxial thin films of layered oxychalcogenides LnCuOCh ($\text{Ln} = \text{La, Nd}$; $\text{Ch} = \text{S, Se}$) by reactive solid-phase epitaxy. <i>Journal of Materials Research</i> , 2004 , 19, 2137-2143	2.5	28
175	Thermopower modulation clarification of the intrinsic effective mass in transparent oxide semiconductor BaSnO_3 . <i>Physical Review Materials</i> , 2017 , 1,	3.2	28
174	Reversibly Switchable Electromagnetic Device with Leakage-Free Electrolyte. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600044	6.4	27
173	Thermal Stability of Giant Thermoelectric Seebeck Coefficient for $\text{SrTiO}_3/\text{SrTi}_{0.8}\text{Nb}_{0.2}\text{O}_3$ Superlattices at 900 K. <i>Applied Physics Express</i> , 2008 , 1, 015007	2.4	27
172	Heteroepitaxial Growth of Zinc Oxide Single Crystal Thin Films on (111) Plane YSZ by Pulsed Laser Deposition. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 570, 309		27
171	Atomic structure and strain field of threading dislocations in CeO_2 thin films on yttria-stabilized ZrO_2 . <i>Applied Physics Letters</i> , 2011 , 98, 153104	3.4	26
170	Large enhancement of the thermoelectric Seebeck coefficient for amorphous oxide semiconductor superlattices with extremely thin conductive layers. <i>Physica Status Solidi - Rapid Research Letters</i> , 2008 , 2, 105-107	2.5	26
169	Large thickness dependence of the carrier mobility in a transparent oxide semiconductor, La-doped BaSnO_3 . <i>Applied Physics Letters</i> , 2018 , 112, 232102	3.4	25
168	Giant power factors in p- and n-type large-area graphene films on a flexible plastic substrate. <i>Npj 2D Materials and Applications</i> , 2019 , 3,	8.8	25
167	Enhancement of thermoelectric performance in rare earth-doped $\text{Sr}_3\text{Ti}_2\text{O}_7$ by symmetry restoration of TiO_6 octahedra. <i>Journal of Electroceramics</i> , 2010 , 24, 76-82	1.5	25
166	Surface Modification of Glass Substrates for Oxide Heteroepitaxy: Pasteable Three-Dimensionally Oriented Layered Oxide Thin Films. <i>Advanced Materials</i> , 2006 , 18, 1649-1652	24	25
165	Potential profiling of the nanometer-scale charge-depletion layer in n- $\text{ZnO}/\text{p-NiO}$ junction using photoemission spectroscopy. <i>Applied Physics Letters</i> , 2006 , 89, 153502	3.4	25
164	Thermopower enhancement by fractional layer control in 2D oxide superlattices. <i>Advanced Materials</i> , 2014 , 26, 6701-5	24	24
163	Phase Instability amid Dimensional Crossover in Artificial Oxide Crystal. <i>Physical Review Letters</i> , 2020 , 124, 026401	7.4	23
162	Directing Oxygen Vacancy Channels in SrFeO Epitaxial Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 4831-4837	9.5	23
161	High electrical conducting deep-ultraviolet-transparent oxide semiconductor La-doped SrSnO_3 exceeding $\sim 3000 \text{ S cm}^{-1}$. <i>Applied Physics Letters</i> , 2020 , 116, 022103	3.4	22
160	Room-Temperature-Protonation-Driven On-Demand Metal/Insulator Conversion of a Transition Metal Oxide. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500063	6.4	22
159	Thermopower analysis of metal-insulator transition temperature modulations in vanadium dioxide thin films with lattice distortion. <i>Physical Review B</i> , 2015 , 92,	3.3	22

- 158 Controlling Interface Intermixing and Properties of SrTiO₃-Based Superlattices. *Advanced Functional Materials*, **2011**, 21, 2258-2263 15.6 22
- 157 Experimental characterization of the electronic structure of anatase TiO₂: Thermopower modulation. *Applied Physics Letters*, **2010**, 97, 172112 3.4 22
- 156 Application of a Transparent Conductive Substrate with an Atomically Flat and Stepped Surface to Lateral Growth of an Organic Molecule: Vanadyl Phthalocyanine. *Advanced Materials*, **2003**, 15, 1258-1262 2.4 22
- 155 Effects of vacuum annealing on the electron mobility of epitaxial La-doped BaSnO₃ films. *APL Materials*, **2019**, 7, 022507 5.7 22
- 154 Thermopower analysis of the electronic structure around the metal-insulator transition in V_{1-x}W_xO₂. *Physical Review B*, **2014**, 90, 3.3 21
- 153 Fabrication and thermoelectric properties of layered cobaltite, Sr_{0.32}Na_{0.21}CoO₂ epitaxial films. *Applied Physics Letters*, **2006**, 88, 082109 3.4 21
- 152 Temperature Dependence of the Chemical Potential in Na_xCoO₂: Implications for the Large Thermoelectric Power. *Journal of the Physical Society of Japan*, **2007**, 76, 103709 1.5 21
- 151 Atomic structure of a B [110]/(111) grain boundary in CeO₂. *Applied Physics Letters*, **2012**, 100, 073109 3.4 20
- 150 Anisotropic carrier transport properties in layered cobaltate epitaxial films grown by reactive solid-phase epitaxy. *Applied Physics Letters*, **2009**, 94, 152105 3.4 19
- 149 Thermoelectric Properties of Ruddlesden-Popper Phase n-Type Semiconducting Oxides: La-, Nd-, and Nb-Doped Sr₃Ti₂O₇. *International Journal of Applied Ceramic Technology*, **2007**, 4, 326-331 2 18
- 148 Self-Adjusted, Three-Dimensional Lattice-Matched Buffer Layer for Growing ZnO Epitaxial Film: Homologous Series Layered Oxide, InGaO₃(ZnO)₅. *Crystal Growth and Design*, **2006**, 6, 2451-2456 3.5 18
- 147 All oxide transparent MISFET using high-k dielectrics gates. *Microelectronic Engineering*, **2004**, 72, 294-298 5 18
- 146 Heteroepitaxial growth of single-phase zinc blende ZnS films on transparent substrates by pulsed laser deposition under H₂S atmosphere. *Solid State Communications*, **2002**, 124, 411-415 1.6 18
- 145 Two-dimensional electronic structure and multiple excitonic states in layered oxychalcogenide semiconductors, LaCuOCh (Ch=S, Se, Te): Optical properties and relativistic ab initio study. *Thin Solid Films*, **2005**, 486, 98-103 2.2 18
- 144 Pulsed laser deposition system for producing oxide thin films at high temperature. *Review of Scientific Instruments*, **2001**, 72, 3340-3343 1.7 17
- 143 Formation of environmentally stable hole-doped graphene films with instantaneous and high-density carrier doping via a boron-based oxidant. *Npj 2D Materials and Applications*, **2019**, 3, 8.8 16
- 142 Lithium-ion conducting La_{2/3-x}Li_{3x}TiO₃ solid electrolyte thin films with stepped and terraced surfaces. *Applied Physics Letters*, **2012**, 100, 173107 3.4 16
- 141 Electric-Field Modulation of Thermopower for the KTaO₃ Field-Effect Transistors. *Applied Physics Express*, **2009**, 2, 121103 2.4 16

140	Preparation and thermoelectric properties of heavily Nb-doped SrO(SrTiO ₃) ₁ epitaxial films. <i>Journal of Applied Physics</i> , 2007 , 102, 033702	2.5	16
139	HRTEM Characterization of Atomic Structures in Cu/.ALPHA.-Al ₂ O ₃ (0001) Interface. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2003 , 52, 555-559	0.1	16
138	Efficiency and long-term durability of a nitrogen-doped single-walled carbon nanotube electrocatalyst synthesized by defluorination-assisted nanotube-substitution for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 9184-9195	13	16
137	Thermoelectric phase diagram of the SrTiO ₃ BrNbO ₃ solid solution system. <i>Journal of Applied Physics</i> , 2017 , 121, 185102	2.5	15
136	Defluorination-assisted nanotube-substitution reaction with ammonia gas for synthesis of nitrogen-doped single-walled carbon nanotubes. <i>Carbon</i> , 2015 , 94, 1052-1060	10.4	15
135	Search for non-equilibrium thermoelectrics. <i>Scripta Materialia</i> , 2016 , 111, 23-28	5.6	15
134	Te Monolayer-Driven Spontaneous van der Waals Epitaxy of Two-dimensional Pnictogen Chalcogenide Film on Sapphire. <i>Nano Letters</i> , 2017 , 17, 6140-6145	11.5	15
133	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
132	EPITAXIAL GROWTH OF TRANSPARENT CONDUCTIVE OXIDES. <i>International Journal of Modern Physics B</i> , 2002 , 16, 173-180	1.1	15
131	Crystallographic orientation/surface energy/wetting property relationships of rare earth oxides. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18384-18388	13	15
130	Buffer layer-less fabrication of a high-mobility transparent oxide semiconductor, La-doped BaSnO ₃ . <i>Journal of Materials Chemistry C</i> , 2019 , 7, 5797-5802	7.1	14
129	Electric-field thermopower modulation in SrTiO ₃ -based field-effect transistors. <i>Journal of Materials Science</i> , 2013 , 48, 2797-2805	4.3	14
128	Domain formation in anatase TiO ₂ thin films on LaAlO ₃ substrates. <i>Applied Physics Letters</i> , 2012 , 101, 191602	3.4	14
127	Structural Transformation of Ca-Arrangements and Carrier Transport Properties in Ca _{0.33} CoO ₂ Epitaxial Films. <i>Applied Physics Express</i> , 2009 , 2, 035503	2.4	14
126	Two-dimensional thermoelectric Seebeck coefficient of SrTiO ₃ -based superlattices. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 2363-2368	1.3	14
125	Enhancement of Seebeck coefficient for SrO(SrTiO ₃) ₂ by Sm substitution: Crystal symmetry restoration of distorted TiO ₆ octahedra. <i>Applied Physics Letters</i> , 2007 , 91, 242102	3.4	14
124	Epitaxial Growth of a Copper-phthalocyanine on a Transparent Conductive Substrate with an Atomically Flat Surface. <i>Crystal Growth and Design</i> , 2005 , 5, 143-146	3.5	14
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- 1 Thermoelectric Performance of Doped SrO(SrTiO₃)_n (n = 1, 2) Ruddlesden-Popper Phases 193-202