

Hiromichi Ohta

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

265
papers

20,465
citations

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	Optoelectronic properties of transparent oxide semiconductor ASnO ₃ (A = Ba, Sr, and Ca) epitaxial films and thin film transistors. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022 , 40, 020803	2.9	1
264	Antiferroelectric-to-ferroelectric phase transition in hexagonal rare-earth iron oxides. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 5621-5626	7.1	0
263	Observation of topological Hall torque exerted on a domain wall in the ferromagnetic oxide SrRuO ₃ . <i>Science Advances</i> , 2022 , 8, eabl6192	14.3	1
262	Structure and thermoelectric properties of electrochemically doped polythiophene thin films: Effect of side chain density. <i>Applied Physics Letters</i> , 2021 , 119, 183304	3.4	1
261	Solid-State Electrochemical Switch of Superconductor-Metal-Insulators. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 54204-54209	9.5	2
260	Breaking of Thermopower-Conductivity Trade-Off in LaTiO Film around Mott Insulator to Metal Transition. <i>Advanced Science</i> , 2021 , 8, e2102097	13.6	2
259	Unveiling the Electronic Structure of Grain Boundaries in Anatase with Electron Microscopy and First-Principles Modeling. <i>Nano Letters</i> , 2021 , 21, 9217-9223	11.5	2
258	Thermal Management Technologies: Anomalously Low Heat Conduction in Single-Crystal Superlattice Ceramics Lower Than Randomly Oriented Polycrystals (Adv. Mater. Interfaces 7/2021). <i>Advanced Materials Interfaces</i> , 2021 , 8, 2170039	4.6	
257	Low thermal conductivity of SrTiO ₃ PbTiO ₃ and SrTiO ₃ BrNbO ₃ thermoelectric oxide solid solutions. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 4075-4085	3.8	1
256	Solid-state electrochemical redox control of the optoelectronic properties for SrFeO _x thin films. <i>Journal of Applied Physics</i> , 2021 , 129, 215303	2.5	3
255	Thermal Diffusivity of the Mott Insulator Ca ₂ RuO ₄ in a Non-equilibrium Steady State. <i>Journal of the Physical Society of Japan</i> , 2021 , 90, 063601	1.5	0
254	Pressure-tunable thermal conductivity observed for bisamide functionalized diacetylene crystals. <i>Journal of Materials Science</i> , 2021 , 56, 15481-15490	4.3	
253	Single-Dislocation Schottky Diodes. <i>Nano Letters</i> , 2021 , 21, 5586-5592	11.5	1
252	Solid-State Electrochemical Protonation of SrCoO _{2.5} into H _x SrCoO _{2.5} (x = 1, 1.5, and 2). <i>ACS Applied Electronic Materials</i> , 2021 , 3, 3296-3300	4	2
251	Fabrication and characterization of tetragonal yttria-stabilized zirconia single-crystalline thin film. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 1198-1203	3.8	0
250	Layered cobalt oxide epitaxial films exhibiting thermoelectric ZT = 0.11 at room temperature. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 274-280	13	7
249	Anisotropic Electrical Conductivity of Oxygen-Deficient Tungsten Oxide Films with Epitaxially Stabilized 1D Atomic Defect Tunnels. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 6864-6869	9.5	2

248	Overlayer deposition-induced control of oxide ion concentration in SrFeCoO oxygen sponges.. <i>RSC Advances</i> , 2021 , 11, 32210-32215	3.7	1
247	Hot-carrier Separation Induced by the Electric Field of a p-n Junction between Titanium Dioxide and Nickel Oxide. <i>Chemistry Letters</i> , 2021 , 50, 374-377	1.7	1
246	Anomalously Low Heat Conduction in Single-Crystal Superlattice Ceramics Lower Than Randomly Oriented Polycrystals. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2001932	4.6	3
245	Atomistic Origin of Li-Ion Conductivity Reduction at (LiLa)TiO Grain Boundary. <i>Nano Letters</i> , 2021 , 21, 6282-6288	11.5	0
244	Reversible Redox Control of Optoelectronic Properties of Hexagonal Tungsten Oxide Epitaxial Films Grown on YSZ Solid Electrolyte. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 3619-3624	4	0
243	Substrate-Independent Energy-Level Pinning of an Organic Semiconductor Providing Versatile Hole-Injection Electrodes. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 3994-4001	4	1
242	Tuning of the Optoelectronic Properties for Transparent Oxide Semiconductor ASnO ₃ by Modulating the Size of A-Ions. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 3971-3976	4	3
241	Oligothiophene-Based Phosphonates for Surface Modification of Ultraflat Transparent Conductive Oxides. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1902114	4.6	1
240	Insulator-to-Metal Transition of Cr ₂ O ₃ Thin Films via Isovalent Ru ³⁺ Substitution. <i>Chemistry of Materials</i> , 2020 , 32, 5272-5279	9.6	3
239	Fabrication and Operating Mechanism of Deep-UV Transparent Semiconducting SrSnO ₃ -Based Thin Film Transistor. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000100	6.4	4
238	Effect of lattice distortions on the electron and thermal transport properties of transparent oxide semiconductor Ba _{1-x} Sr _x SnO ₃ solid solution films. <i>Journal of Applied Physics</i> , 2020 , 127, 115701	2.5	4
237	2D thermoelectrics 2020 , 209-225		0
236	Current-induced effective magnetic field in La _{0.67} Sr _{0.33} MnO ₃ /LaAlO ₃ /SrTiO ₃ structures. <i>AIP Advances</i> , 2020 , 10, 015129	1.5	2
235	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
234	Arbitrary control of the diffusion potential between a plasmonic metal and a semiconductor by an angstrom-thick interface dipole layer. <i>Journal of Chemical Physics</i> , 2020 , 152, 034705	3.9	1
233	Phase Instability amid Dimensional Crossover in Artificial Oxide Crystal. <i>Physical Review Letters</i> , 2020 , 124, 026401	7.4	23
232	Anisotropic Heat Conduction in Ion-Substituted Layered Cobalt Oxides. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1901816	4.6	8
231	High electrical conducting deep-ultraviolet-transparent oxide semiconductor La-doped SrSnO ₃ exceeding ~3000 S cm ⁻¹ . <i>Applied Physics Letters</i> , 2020 , 116, 022103	3.4	22

230	Electric field thermopower modulation analyses of the operation mechanism of transparent amorphous SnO ₂ thin-film transistor. <i>Applied Physics Letters</i> , 2020 , 116, 143503	3.4	7
229	Charge and thermoelectric transport mechanism in donor-acceptor copolymer films. <i>Physical Review Research</i> , 2020 , 2,	3.9	3
228	Ferroelectric Oxide Thin Film with an Out-of-Plane Electrical Conductivity. <i>Nano Letters</i> , 2020 , 20, 1047-1053	10.5	3
227	Unusually Large Thermopower Change from +330 to -185 K ⁻¹ of Brownmillerite SrCoO _{2.5} . <i>ACS Applied Electronic Materials</i> , 2020 , 2, 2250-2256	4	2
226	Coexistence of High Electron Conduction and Low Heat Conduction in Tungsten Oxide Epitaxial Films with 1D Atomic Defect Tunnels. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 2507-2513	4	3
225	Thickness Optimization toward High-Performance Bottom-Gated Transparent Tin Dioxide Thin-Film Transistors. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 3454-3458	4	5
224	Non-equilibrium Steady State in the Mott Insulator Ca ₂ RuO ₄ . <i>Journal of the Physical Society of Japan</i> , 2020 , 89, 093707	1.5	1
223	Spontaneous Generation of Carrier Electrons at the Interface between Polycrystalline ZnO and Amorphous InGaZnO ₄ . <i>Advanced Electronic Materials</i> , 2020 , 6, 2000404	6.4	2
222	Optimization of Two-Dimensional Channel Thickness in Nanometer-Thick SnO ₂ -Based Top-Gated Thin-Film Transistors Using Electric Field Thermopower Modulation: Implications for Flat-Panel Displays. <i>ACS Applied Nano Materials</i> , 2020 , 3, 12427-12432	5.6	4
221	Thermoelectric phase diagram of the SrTiO ₃ -LaTiO ₃ solid-solution system through a metal to Mott insulator transition. <i>Journal of Applied Physics</i> , 2019 , 126, 075104	2.5	2
220	Thermopower Modulation Clarification of the Operating Mechanism in Wide Bandgap BaSnO ₃ -SrSnO ₃ Solid-Solution Based Thin Film Transistors. <i>Small</i> , 2019 , 15, e1805394	11	11
219	Formation of environmentally stable hole-doped graphene films with instantaneous and high-density carrier doping via a boron-based oxidant. <i>Npj 2D Materials and Applications</i> , 2019 , 3,	8.8	16
218	Electrical, Optical, and Thermal Transport Properties of Oxygen-Deficient Amorphous WO _x (2.5 Journal of Physical Chemistry C, 2019 , 123, 15419-15424	3.8	7
217	Electron Sandwich Doubles the Thermoelectric Power Factor of SrTiO ₃ (Phys. Status Solidi A 9(2019). <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1970034	1.6	
216	A Room-Temperature Ferroelectric Ferromagnet in a 1D Tetrahedral Chain Network. <i>Advanced Materials</i> , 2019 , 31, e1808104	24	12
215	Peculiar magnetotransport properties in La _{0.67} Sr _{0.33} MnO ₃ /LaAlO ₃ /SrTiO ₃ . <i>AIP Advances</i> , 2019 , 9, 035129	12.9	2
214	Oxide-based optical, electrical and magnetic properties switching devices with water-incorporated gate insulator. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, 090501	1.4	4
213	Fast operation of a WO ₃ -based solid-state electrochromic transistor. <i>AIP Advances</i> , 2019 , 9, 025122	1.5	3

212	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
211	Thermal conductivity tensor of NbO ₂ . <i>International Journal of Heat and Mass Transfer</i> , 2019 , 137, 263-267.	4.9	9
210	Current-Induced Modulation of Coercive Field in the Ferromagnetic Oxide SrRuO ₃ . <i>IEEE Transactions on Magnetics</i> , 2019 , 55, 1-4	2	4
209	Electric Field Thermopower Modulation of 2D Electron Systems 2019 , 97-120		2
208	Macroscopic Visualization of Fast Electrochemical Reaction of SrCoO _x Oxygen Sponge. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1901260	4.6	9
207	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
206	Investigation of electrical and thermal transport property reductions in La-doped BaSnO ₃ films. <i>Physical Review Materials</i> , 2019 , 3,	3.2	8
205	Electron Sandwich Doubles the Thermoelectric Power Factor of SrTiO ₃ . <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1800832	1.6	3
204	Macroscopic Visualization: Macroscopic Visualization of Fast Electrochemical Reaction of SrCoO _x Oxygen Sponge (Adv. Mater. Interfaces 23/2019). <i>Advanced Materials Interfaces</i> , 2019 , 6, 1970148	4.6	3
203	Surface charge accumulation and electrochemical protonation of transition metal oxides using water-infiltrated nanoporous glass. <i>Semiconductor Science and Technology</i> , 2019 , 34, 123001	1.8	1
202	Effects of vacuum annealing on the electron mobility of epitaxial La-doped BaSnO ₃ films. <i>APL Materials</i> , 2019 , 7, 022507	5.7	22
201	Chemical hole doping into large-area transition metal dichalcogenide monolayers using boron-based oxidant. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 02CB15	1.4	6
200	Plasmon-Assisted Polarity Switching of a Photoelectric Conversion Device by UV and Visible Light Irradiation. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 14064-14071	3.8	6
199	Directing Oxygen Vacancy Channels in SrFeO Epitaxial Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 4831-4837	9.5	23
198	Stoichiometric and Oxygen-Deficient VO as Versatile Hole Injection Electrode for Organic Semiconductors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10552-10559	9.5	11
197	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
196	Double thermoelectric power factor of a 2D electron system. <i>Nature Communications</i> , 2018 , 9, 2224	17.4	35
195	Fabrication, Characterization, and Modulation of Functional Nanolayers 2018 , 207-235		1

194	High Thermoelectric Power Factor of High-Mobility 2D Electron Gas. <i>Advanced Science</i> , 2018 , 5, 1700696	13.6	35
193	Extremely Light Carrier-Effective Mass in a Distorted Simple Metal Oxide. <i>Advanced Electronic Materials</i> , 2018 , 5, 1800504	6.4	1
192	Oxygen Vacancies Allow Tuning the Work Function of Vanadium Dioxide. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1801033	4.6	12
191	Crystallographic orientation, surface energy, wetting property relationships of rare earth oxides. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18384-18388	13	15
190	Highly air- and moisture-stable hole-doped carbon nanotube films achieved using boron-based oxidant. <i>Applied Physics Express</i> , 2017 , 10, 035101	2.4	10
189	Reactive Solid-Phase Epitaxy and Electrical Conductivity of Layered Sodium Manganese Oxide Films. <i>Crystal Growth and Design</i> , 2017 , 17, 1849-1853	3.5	3
188	Thermoelectric phase diagram of the SrTiO ₃ /SrNbO ₃ solid solution system. <i>Journal of Applied Physics</i> , 2017 , 121, 185102	2.5	15
187	Graphene Substrate for van der Waals Epitaxy of Layer-Structured Bismuth Antimony Telluride Thermoelectric Film. <i>Advanced Materials</i> , 2017 , 29, 1604899	24	28
186	Highly conducting leakage-free electrolyte for SrCoO _x -based non-volatile memory device. <i>Journal of Applied Physics</i> , 2017 , 122, 135303	2.5	9
185	Solid-phase epitaxial film growth and optical properties of a ferroelectric oxide, Sr ₂ Nb ₂ O ₇ . <i>Journal of Applied Physics</i> , 2017 , 122, 135305	2.5	8
184	Transition-metal-oxide based functional thin-film device using leakage-free electrolyte. <i>Journal of the Ceramic Society of Japan</i> , 2017 , 125, 608-615	1	4
183	Infrared-transmittance tunable metal-insulator conversion device with thin-film-transistor-type structure on a glass substrate. <i>APL Materials</i> , 2017 , 5, 056105	5.7	8
182	Gate tunable spin-orbit coupling and weak antilocalization effect in an epitaxial La _{2/3} Sr _{1/3} MnO ₃ thin film. <i>Physical Review B</i> , 2017 , 96,	3.3	7
181	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
180	Topotactic Metal-Insulator Transition in Epitaxial SrFeO Thin Films. <i>Advanced Materials</i> , 2017 , 29, 1606564	6.4	67
179	Thermopower modulation clarification of the intrinsic effective mass in transparent oxide semiconductor BaSnO ₃ . <i>Physical Review Materials</i> , 2017 , 1,	3.2	28
178	Optoelectronic properties of valence-state-controlled amorphous niobium oxide. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 255001	1.8	9
177	Reversibly Switchable Electromagnetic Device with Leakage-Free Electrolyte. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600044	6.4	27

176	Search for non-equilibrium thermoelectrics. <i>Scripta Materialia</i> , 2016 , 111, 23-28	5.6	15
175	Atomic structures and oxygen dynamics of CeO ₂ grain boundaries. <i>Scientific Reports</i> , 2016 , 6, 20288	4.9	46
174	A transparent electrochromic metal-insulator switching device with three-terminal transistor geometry. <i>Scientific Reports</i> , 2016 , 6, 25819	4.9	32
173	Solid-Liquid phase epitaxial growth of Li ₄ Ti ₅ O ₁₂ thin film. <i>Applied Physics Express</i> , 2016 , 9, 125501	2.4	3
172	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
171	Enhanced thermoelectric power in two-dimensional transition metal dichalcogenide monolayers. <i>Physical Review B</i> , 2016 , 94,	3.3	45
170	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
169	Characterization of electronic structure around metal-insulator transition in V _{1-x} W _x O ₂ thin films by thermopower measurement. <i>Journal of the Ceramic Society of Japan</i> , 2015 , 123, 307-311	1	
168	Solid-Phase Epitaxial Growth of A-Site-Ordered Perovskite Sr _{4-x} Er _x Co ₄ O ₁₂ A Room Temperature Ferrimagnetic p-Type Semiconductor. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500199	6.4	4
167	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
166	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
165	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
164	Thermopower enhancement by fractional layer control in 2D oxide superlattices. <i>Advanced Materials</i> , 2014 , 26, 6701-5	24	24
163	Thermopower analysis of the electronic structure around the metal-insulator transition in V _{1-x} W _x O ₂ . <i>Physical Review B</i> , 2014 , 90,	3.3	21
162	Reversible redox reactions in an epitaxially stabilized SrCoO(x) oxygen sponge. <i>Nature Materials</i> , 2013 , 12, 1057-63	27	290
161	Electric-field thermopower modulation in SrTiO ₃ -based field-effect transistors. <i>Journal of Materials Science</i> , 2013 , 48, 2797-2805	4.3	14
160	Topotactic phase transformation of the brownmillerite SrCoO _{2.5} to the perovskite SrCoO _{3-x}	24	165
159	Unusually large enhancement of thermopower in an electric field induced two-dimensional electron gas. <i>Advanced Materials</i> , 2012 , 24, 740-4	24	71

158	Atomic structure of a Σ [110]/(111) grain boundary in CeO ₂ . <i>Applied Physics Letters</i> , 2012 , 100, 073109	3-4	20
157	Lithium-ion conducting La _{2/3} Li _{3x} TiO ₃ solid electrolyte thin films with stepped and terraced surfaces. <i>Applied Physics Letters</i> , 2012 , 100, 173107	3-4	16
156	Domain formation in anatase TiO ₂ thin films on LaAlO ₃ substrates. <i>Applied Physics Letters</i> , 2012 , 101, 191602	3-4	14
155	Junctions 2011 , 489-505		
154	Controlling Interface Intermixing and Properties of SrTiO ₃ -Based Superlattices. <i>Advanced Functional Materials</i> , 2011 , 21, 2258-2263	15.6	22
153	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
152	Electric field thermopower modulation analysis of an interfacial conducting layer formed between Y ₂ O ₃ and rutile TiO ₂ . <i>Journal of Applied Physics</i> , 2011 , 110, 063719	2-5	3
151	Epitaxial thin films of p-type spinel ferrite grown by pulsed laser deposition. <i>Applied Physics Letters</i> , 2011 , 99, 242504	3-4	11
150	Field-induced water electrolysis switches an oxide semiconductor from an insulator to a metal. <i>Nature Communications</i> , 2010 , 1, 118	17.4	65
149	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
148	Experimental characterization of the electronic structure of anatase TiO ₂ : Thermopower modulation. <i>Applied Physics Letters</i> , 2010 , 97, 172112	3-4	22
147	Enhancing the electron mobility via delta-doping in SrTiO ₃ . <i>Applied Physics Letters</i> , 2010 , 97, 222115	3-4	47
146	Fabrication of Atomically Flat ScAlMgO ₄ Epitaxial Buffer Layer and Low-Temperature Growth of High-Mobility ZnO Films. <i>Crystal Growth and Design</i> , 2010 , 10, 1084-1089	3-5	5
145	Atomic structure of a CeO ₂ grain boundary: the role of oxygen vacancies. <i>Nano Letters</i> , 2010 , 10, 4668-72	1.5	143
144	Metal-nonmetal transition in Li _x CoO ₂ thin films and thermopower enhancement at high Li concentration. <i>Physical Review B</i> , 2010 , 82,	3-3	10
143	Electric field modulation of thermopower for transparent amorphous oxide thin film transistors. <i>Applied Physics Letters</i> , 2010 , 97, 182105	3-4	10
142	Thermoelectric Properties of SrTiO ₃ : Bulks, Superlattices, and Transistors. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2010 , 57, 232-236	0.2	1
141	Enhancement of thermoelectric performance in rare earth-doped Sr ₃ Ti ₂ O ₇ by symmetry restoration of TiO ₆ octahedra. <i>Journal of Electroceramics</i> , 2010 , 24, 76-82	1.5	25

140	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
139	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
138	Thermal conductivity and Seebeck coefficient of 12CaO?7Al ₂ O ₃ electride with a cage structure. <i>Physical Review B</i> , 2009 , 80,	3.3	13
137	Microstructure evolution of Ca _{0.33} CoO ₂ thin films investigated by high-angle annular dark-field scanning transmission electron microscopy. <i>Journal of Materials Research</i> , 2009 , 24, 279-287	2.5	4
136	Large domain growth of GaN epitaxial films on lattice-matched buffer layer ScAlMgO ₄ . <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009 , 161, 66-70	3.1	5
135	Enhanced effective mass in doped SrTiO ₃ and related perovskites. <i>Physica B: Condensed Matter</i> , 2009 , 404, 2202-2212	2.8	121
134	Anisotropic carrier transport properties in layered cobaltate epitaxial films grown by reactive solid-phase epitaxy. <i>Applied Physics Letters</i> , 2009 , 94, 152105	3.4	19
133	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
132	Electric-Field Modulation of Thermopower for the KTaO ₃ Field-Effect Transistors. <i>Applied Physics Express</i> , 2009 , 2, 121103	2.4	16
131	Epitaxial Film Growth of Li _x CoO ₂ (0.6 x 0.9) via Topotactic Ion Exchange of Na _{0.8} CoO ₂ . <i>Crystal Growth and Design</i> , 2008 , 8, 755-758	3.5	13
130	Thermal Stability of Giant Thermoelectric Seebeck Coefficient for SrTiO ₃ /SrTi _{0.8} Nb _{0.2} O ₃ Superlattices at 900 K. <i>Applied Physics Express</i> , 2008 , 1, 015007	2.4	27
129	Coherent and Incoherent Excitations of Electron-Doped SrTiO ₃ . <i>Physical Review Letters</i> , 2008 , 100, 056401	4	77
128	Potential energy landscape of an interstitial O ₂ molecule in a SiO ₂ film near the SiO ₂ /Si(001) interface. <i>Physical Review B</i> , 2008 , 78,	3.3	9
127	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
126	Direct observations of Ca ordering in Ca _{0.33} CoO ₂ thin films with different superstructures. <i>Applied Physics Letters</i> , 2008 , 93, 181907	3.4	11
125	Relationship between non-localized tail states and carrier transport in amorphous oxide semiconductor, In ₂ O ₃ . <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008 , 205, 1910-1914	1.6	36
124	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
123	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

122	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
121	Fabrication of ScAlMgO ₄ epitaxial thin films using ScGaO ₃ (ZnO) _m buffer layers and its application to lattice-matched buffer layer for ZnO epitaxial growth. <i>Thin Solid Films</i> , 2008 , 516, 5842-5846	2.2	4
120	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
119	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
118	Oxide Superlattices. <i>Journal of the Institute of Electrical Engineers of Japan</i> , 2008 , 128, 290-292	0	
117	Thermoelectric Properties of the Layered Cobaltite Ca ₃ Co ₄ O ₉ Epitaxial Films Fabricated by Topotactic Ion-Exchange Method. <i>Materials Transactions</i> , 2007 , 48, 2104-2107	1.3	5
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3	High-Temperature Thermoelectric Performance of Strontium Titanate Degenerate Semiconductors. <i>Ceramic Transactions</i> , 343-348	0.1	
2	High-Quality Epitaxial Film Growth of Superconducting Sodium-Cobalt Oxyhydrate, Na _{0.3} CoO ₂ · 1.3H ₂ O. <i>Ceramic Transactions</i> , 303-309	0.1	
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