Kunihito Koumoto

List of Publications by Year
in descending order

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266 papers	12,050 citations	25034 57 h-index	33894 99 g-index
270 all docs	270 docs citations	270 times ranked	11699 citing authors

#	Article	IF	Citations
1	Giant thermoelectric Seebeck coefficient of a two-dimensional electron gas in SrTiO3. Nature Materials, 2007, 6, 129-134.	27.5	910
2	Flexible n-type thermoelectric materials by organic intercalation of layered transition metalÂdichalcogenide TiS2. Nature Materials, 2015, 14, 622-627.	27.5	612
3	Oxide Thermoelectric Materials: A Nanostructuring Approach. Annual Review of Materials Research, 2010, 40, 363-394.	9.3	401
4	Recent Progress in Oxide Thermoelectric Materials: p-Type Ca₃Co₄O₉ and n-Type SrTiO₃^{â”}. Inorganic Chemistry, 2008, 47, 8429-8436.	4.0	328
5	Complex Oxide Materials for Potential Thermoelectric Applications. MRS Bulletin, 2006, 31, 206-210.	3.5	327
6	Thermoelectric Ceramics for Energy Harvesting. Journal of the American Ceramic Society, 2013, 96, 1-23.	3.8	286
7	Room temperature deposition of a TiO2 thin film from aqueous peroxotitanate solution. Journal of Materials Chemistry, 2003, 13, 608-613.	6.7	256
8	A novel high-performance photovoltaicâ€“thermoelectric hybrid device. Energy and Environmental Science, 2011, 4, 3676.	30.8	239
9	Thermoelectric Properties of Homologous Compounds in the ZnO-In2O3 System. Journal of the American Ceramic Society, 1996, 79, 2193-2196.	3.8	208
10	Gas Sensing Characteristics of Porous ZnO and Pt/ZnO Ceramics. Journal of the American Ceramic Society, 1985, 68, 40-43.	3.8	185
11	The effect of surface charge on hydroxyapatite nucleation. Biomaterials, 2004, 25, 3915-3921.	11.4	161
12	Bioinspired Ceramic Thin Film Processing:â€‰ Present Status and Future Perspectives. Crystal Growth and Design, 2005, 5, 1983-2017.	3.0	147
13	Grain Size Dependence of Thermoelectric Performance of Nb-Doped SrTiO3 Polycrystals. Journal of the Ceramic Society of Japan, 2006, 114, 102-105.	1.3	146
14	Enhanced effective mass in doped SrTiO3 and related perovskites. Physica B: Condensed Matter, 2009, 404, 2202-2212.	2.7	144
15	Thermoelectric properties of single crystal CuAlO2 with a layered structure. Journal of Materials Chemistry, 2001, 11, 251-252.	6.7	136
16	Development of novel thermoelectric materials by reduction of lattice thermal conductivity. Science and Technology of Advanced Materials, 2010, 11, 044306.	6.1	131
17	Acidâ”Base Properties and Zeta Potentials of Self-Assembled Monolayers Obtained via in Situ Transformationsâ€. Langmuir, 2004, 20, 8693-8698.	3.5	130
18	A solution-processed TiS₂/organic hybrid superlattice film towards flexible thermoelectric devices. Journal of Materials Chemistry A, 2017, 5, 564-570.	10.3	130

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19	High-Resolution Electron Microscopy Observations of Stacking Faults in beta-SiC. Journal of the American Ceramic Society, 1989, 72, 1985-1987.	3.8	128
20	Stacking Faults in beta-SiC Formed during Carbothermal Reduction of SiO2. Journal of the American Ceramic Society, 1996, 79, 1777-1782.	3.8	128
21	Low-Thermal-Conductivity (MS)1+x(TiS2)2 (M = Pb, Bi, Sn) Misfit Layer Compounds for Bulk Thermoelectric Materials. Materials, 2010, 3, 2606-2617.	2.9	125
22	Morphology and Stacking Faults of Î²â€Silicon Carbide Whisker Synthesized by Carbothermal Reduction. Journal of the American Ceramic Society, 2000, 83, 2584-2592.	3.8	121
23	Site-Selective Deposition and Morphology Control of UV- and Visible-Light-Emitting ZnO Crystals. Crystal Growth and Design, 2006, 6, 75-78.	3.0	120
24	TiO2 nanoparticles prepared using an aqueous peroxotitanate solution. Ceramics International, 2004, 30, 1365-1368.	4.8	111
25	Room-Temperature Preparation of ZrO2 Precursor Thin Film in an Aqueous Peroxozirconium-Complex Solution. Chemistry of Materials, 2004, 16, 2615-2622.	6.7	110
26	Interfacial Thermal Resistance and Thermal Conductivity in Nanograined SrTiO₃. Applied Physics Express, 2010, 3, 031101.	2.4	101
27	Magnetoresponsive Onâ€Demand Release of Hybrid Liposomes Formed from Fe₃O₄ Nanoparticles and Thermosensitive Block Copolymers. Small, 2011, 7, 1683-1689.	10.0	99
28	Magnetoresponsive Smart Capsules Formed with Polyelectrolytes, Lipid Bilayers and Magnetic Nanoparticles. ACS Applied Materials & Interfaces, 2010, 2, 768-773.	8.0	97
29	Flexible thermoelectric foil for wearable energy harvesting. Nano Energy, 2016, 30, 840-845.	16.0	96
30	Electrical and Optical Properties of Radio-Frequency-Sputtered Thin Films of (ZnO)5In2O3. Chemistry of Materials, 1998, 10, 3033-3039.	6.7	91
31	Self-Assembly Patterning of Silica Colloidal Crystals. Langmuir, 2005, 21, 4478-4481.	3.5	90
32	Improvement in thermoelectric properties of (ZnO)₅In₂O₃ through partial substitution of yttrium for indium. Journal of Materials Research, 1998, 13, 523-526.	2.6	87
33	Intercalation: Building a Natural Superlattice for Better Thermoelectric Performance in Layered Chalcogenides. Journal of Electronic Materials, 2011, 40, 1271-1280.	2.2	87
34	Enhanced Seebeck coefficient of quantum-confined electrons in SrTiO3âˆ•SrTi0.8Nb0.2O3 superlattices. Applied Physics Letters, 2007, 91, .	3.3	85
35	Thermoelectric properties of highly textured NaCo2O4 ceramics processed by the reactive templated grain growth (RTGG) method. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2001, 86, 20-25.	3.5	81
36	Site-Selective Deposition and Micropatterning of SrTiO3Thin Film on Self-Assembled Monolayers by the Liquid Phase Deposition Method. Chemistry of Materials, 2002, 14, 5006-5014.	6.7	80

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37	Structure and Thermoelectric Transport Properties of Isoelectronically Substituted (ZnO)5In2O3. Journal of Solid State Chemistry, 2000, 150, 221-227.	2.9	79
38	Thermoelectric properties of sintered polycrystalline ZnIn₂S₄. Journal of Materials Research, 1999, 14, 4176-4181.	2.6	78
39	Selective Deposition of ZnF(OH) on Self-Assembled Monolayers in Znâ^'NH4F Aqueous Solutions for Micropatterning of Zinc Oxide. Langmuir, 2001, 17, 1461-1469.	3.5	77
40	Micropatterning of Copper on a Poly(ethylene terephthalate) Substrate Modified with a Self-Assembled Monolayer. Langmuir, 2006, 22, 332-337.	3.5	77
41	Sub-10 nm strontium titanate nanocubes highly dispersed in non-polar organic solvents. Nanoscale, 2010, 2, 2080.	5.6	77
42	Electrodeposition of CuInS2 from aqueous solution (II) electrodeposition of CuInS2 film. Thin Solid Films, 1996, 286, 151-153.	1.8	74
43	A novel glass-fiber-aided cold-press method for fabrication of n-type Ag₂Te nanowires thermoelectric film on flexible copy-paper substrate. Journal of Materials Chemistry A, 2017, 5, 24740-24748.	10.3	73
44	Thermoelectric properties of electron doped SrO(SrTiO3)nâ€^(n=1,2) ceramics. Journal of Applied Physics, 2009, 105, .	2.5	71
45	Tunable UV-Responsive Organicâ^'Inorganic Hybrid Capsules. Chemistry of Materials, 2009, 21, 195-197.	6.7	70
46	Graphene-Based Thermoelectrics. ACS Applied Energy Materials, 2020, 3, 2224-2239.	5.1	70
47	Site-Selective Deposition of Magnetite Particulate Thin Films on Patterned Self-assembled Monolayers. Chemistry of Materials, 2004, 16, 3484-3488.	6.7	69
48	Control over Film Thickness of SnO2Ultrathin Film Selectively Deposited on a Patterned Self-Assembled Monolayer. Langmuir, 2002, 18, 10379-10385.	3.5	68
49	Micropatterning of anatase TiO2 thin films from an aqueous solution by a site-selective immersion method. Journal of Materials Chemistry, 2002, 12, 2643-2647.	6.7	68
50	Body Heat Powers Future Electronic Skins. Joule, 2019, 3, 1399-1403.	24.0	67
51	Reactive Solid-Phase Epitaxial Growth of NaxCoO2(xâ^¼ 0.83) via Lateral Diffusion of Na into a Cobalt Oxide Epitaxial Layer. Crystal Growth and Design, 2005, 5, 25-28.	3.0	66
52	Investigation of Apatite Deposition onto Charged Surfaces in Aqueous Solutions Using a Quartzâ€Crystal Microbalance. Journal of the American Ceramic Society, 2003, 86, 782-790.	3.8	65
53	Micropatterning of TiO2 Thin Film in an Aqueous Peroxotitanate Solution. Chemistry of Materials, 2004, 16, 1062-1067.	6.7	64
54	Dielectric Mismatch Mediates Carrier Mobility in Organic-Intercalated Layered TiS₂. Nano Letters, 2015, 15, 6302-6308.	9.1	62

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55	Self-Assembly Patterning of Colloidal Crystals Constructed from Opal Structure or NaCl Structure. Langmuir, 2004, 20, 5588-5592.	3.5	61
56	CO2 gas sensor usingÎ²-Al2O3 and metal carbonate. Journal of Materials Science Letters, 1986, 5, 285-286.	0.5	60
57	Enhancement of Thermoelectric Figure of Merit for Bi0.5Sb1.5Te3 by Metal Nanoparticle Decoration. Journal of Electronic Materials, 2012, 41, 1165-1169.	2.2	60
58	Electronic conduction in La-based perovskite-type oxides. Science and Technology of Advanced Materials, 2015, 16, 026001.	6.1	58
59	Seedless micropatterning of copper by electroless deposition on self-assembled monolayers. Journal of Materials Chemistry, 2004, 14, 976.	6.7	57
60	The Formation Mechanism of a Textured Ceramic of Thermoelectric [Ca2CoO3]0.62[CoO2] on Î²-Co(OH)2Templates through in Situ Topotactic Conversion. Journal of the American Chemical Society, 2005, 127, 6367-6373.	13.7	57
61	Site-Selective Deposition and Micropatterning of Visible-Light-Emitting Europium-Doped Yttrium Oxide Thin Film on Self-Assembled Monolayers. Chemistry of Materials, 2007, 19, 1002-1008.	6.7	57
62	Influence of ionic size of rare-earth site on the thermoelectric properties of RCoO3-type perovskite cobalt oxides. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2001, 85, 70-75.	3.5	55
63	Thermoelectric Performance of Yttrium-substituted (ZnO)5In2O3Improved through Ceramic Texturing. Japanese Journal of Applied Physics, 2002, 41, 731-732.	1.5	55
64	Nanoscale stacking faults induced low thermal conductivity in thermoelectric layered metal sulfides. Applied Physics Letters, 2012, 100, .	3.3	54
65	Nano/micro-patterning of anatase TiO2thin film from an aqueous solution by site-selective elimination method. Science and Technology of Advanced Materials, 2003, 4, 461-467.	6.1	52
66	Fabrication of Self-Assembled Monolayers (SAMs) and Inorganic Micropattern on Flexible Polymer Substrate. Langmuir, 2004, 20, 3278-3283.	3.5	52
67	Microstructure-Controlled Deposition of SrTiO3Thin Film on Self-Assembled Monolayers in an Aqueous Solution of (NH4)2TiF6â^'Sr(NO3)2â^'H3BO3. Chemistry of Materials, 2003, 15, 2399-2410.	6.7	50
68	High-temperature thermoelectric properties of Ca0.9â^'xSrxYb0.1MnO3â^'Î´â€^(â‰xâ‰0.2). Journal of Applied Physics, 2009, 105, .	2.5	50
69	Wearable and flexible thermoelectrics for energy harvesting. MRS Bulletin, 2018, 43, 193-198.	3.5	48
70	Arrangement of Nanosized Ceramic Particles on Self-Assembled Monolayers. Japanese Journal of Applied Physics, 2000, 39, 4596-4600.	1.5	47
71	Ca-doped RCoO3 (R = Gd, Sm, Nd, Pr) as thermoelectric materials. Journal of Materials Chemistry, 2000, 10, 2007-2009.	6.7	47
72	A novel process to form a silica-like thin layer on polyethylene terephthalate film and its application for gas barrier. Thin Solid Films, 2005, 473, 351-356.	1.8	47

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73	Fabrication and thermoelectric properties of heavily rare-earth metal-doped SrO(SrTiO3)n (n=1, 2) ceramics. Ceramics International, 2008, 34, 849-852.	4.8	46
74	Grain-boundary grooves and surface diffusion in polycrystalline alumina measured by atomic force microscope. Journal of the European Ceramic Society, 1998, 18, 595-600.	5.7	45
75	Thermoelectric properties of highly textured (ZnO)5In2O3 ceramics. Journal of Materials Chemistry, 2001, 11, 2324-2328.	6.7	45
76	Site-selective deposition and micropatterning of tantalum oxide thin films using a monolayer. Journal of the European Ceramic Society, 2004, 24, 301-307.	5.7	45
77	Effects of Boron, Carbon, and Iron Content on the Stacking Fault Formation during Synthesis of Î²â€SiC Particles in the System SiO₂â€Câ€H₂. Journal of the American Ceramic Society, 1998, 81, 1255-1261.	3.8	45
78	Thermoelectric Flexible Silver Selenide Films: Compositional and Length Optimization. IScience, 2020, 23, 100753.	4.1	42
79	Thermoelectric properties of PbTe thin films prepared by gas evaporation method. Journal of Materials Research, 1999, 14, 209-212.	2.6	40
80	GAS SENSITIVITY OF CuO/ZnO HETERO-CONTACT. Chemistry Letters, 1986, 15, 413-416.	1.3	39
81	Microstructure dependence of mechanical and dielectric strengthsâ€”i. porosity. Engineering Fracture Mechanics, 1991, 40, 927-930.	4.3	38
82	The effect of Eu substitution on thermoelectric properties of SrTi0.8Nb0.2O3. Journal of Applied Physics, 2007, 102, 116107.	2.5	38
83	Morphology control of ZnO crystalline particles in aqueous solution. Electrochimica Acta, 2007, 53, 171-174.	5.2	37
84	Preparation of hybrid hollow capsules formed with Fe3O4 and polyelectrolytes via the layer-by-layer assembly and the aqueous solution process. Journal of Colloid and Interface Science, 2010, 341, 64-68.	9.4	37
85	Simulation of Thermoelectric Performance of Bulk SrTiO₃ with Twoâ€Đimensional Electron Gas Grain Boundaries. Journal of the American Ceramic Society, 2010, 93, 1677-1681.	3.8	36
86	Electronic transport properties of the perovskite-type oxides La1âˆ’xSrxCoO3Â±Î´. Journal of Materials Chemistry, 2012, 22, 20217.	6.7	36
87	Patterned Adsorption of Protein onto a Carbohydrate Monolayer Immobilized on Si. Langmuir, 2003, 19, 9107-9109.	3.5	35
88	Effects of mesoporous silica addition on thermoelectric properties of Nb-doped SrTiO3. Journal of Alloys and Compounds, 2010, 497, 308-311.	5.5	35
89	Electrodeposition of CuInS2 from aqueous solution Part I. Electrodeposition of Cuî—¸S film. Thin Solid Films, 1996, 280, 160-162.	1.8	34
90	Nb-doped grain boundary induced thermoelectric power factor enhancement in La-doped SrTiO3 nanoceramics. Journal of Power Sources, 2013, 241, 255-258.	7.8	34

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91	The Effect of Atmosphere and Doping on Electrical Conductivity of CuO. Japanese Journal of Applied Physics, 1992, 31, 2488-2491.	1.5	33
92	Thermoelectric Properties of (ZnO)5In2O3 Thin Films Prepared by r.f. Sputtering Method.. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 1997, 44, 44-49.	0.2	33
93	Effect of Relative Humidity on Current-Voltage Characteristics of Li-Doped CuO/ZnO Junction. Japanese Journal of Applied Physics, 1983, 22, 1933-1933.	1.5	32
94	Critical thickness for giant thermoelectric Seebeck coefficient of 2DEG confined in SrTiO3/SrTi0.8Nb0.2O3 superlattices. Thin Solid Films, 2008, 516, 5916-5920.	1.8	32
95	Effects of YSZ Additions on Thermoelectric Properties of Nb-Doped Strontium Titanate. Journal of Electronic Materials, 2010, 39, 1777-1781.	2.2	32
96	A Novel Glucose Sensor with a Glucose Oxidase Monolayer Immobilized by the Langmuirâ€“Blodgett Technique. Chemistry Letters, 1988, 17, 1265-1268.	1.3	31
97	Characterization of Prussian Blue analogue: nanocrystalline nickel-iron cyanide. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1997, 49, 89-94.	3.5	31
98	Photoinduced Cleavage of Alkyl Monolayers on Si. Langmuir, 2004, 20, 1517-1520.	3.5	31
99	Synthesis of BaTiO₃ Nanowires at Low Temperature. Crystal Growth and Design, 2007, 7, 2713-2715.	3.0	31
100	Site-Selective Deposition of In2O3 Using a Self-Assembled Monolayer. Crystal Growth and Design, 2009, 9, 555-561.	3.0	31
101	Effect of Crystal-Axis Orientation on Dielectric Properties of Ceramics Prepared from Fibrous Barium Titanate. Journal of the American Ceramic Society, 1994, 77, 2327-2331.	3.8	30
102	Photoluminescence from ZnO Nanoparticles Embedded in an Amorphous Matrix. Crystal Growth and Design, 2008, 8, 1503-1508.	3.0	30
103	Perovskite solar cell-thermoelectric tandem system with a high efficiency of over 23%. Materials Today Energy, 2019, 12, 363-370.	4.7	30
104	Decomposition Pressure of Co3O4Determined from Electrical Conductivity Measurements. Japanese Journal of Applied Physics, 1981, 20, 445-446.	1.5	29
105	Anisotropic Thermoelectric Properties of Crystal-Axis Oriented Ceramics of Layer-Structured Oxide in the Ca-Co-O System.. Journal of the Ceramic Society of Japan, 2001, 109, 647-650.	1.3	29
106	Preparation of SrTiO3 thin films by the liquid phase deposition method. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 99, 290-293.	3.5	29
107	Enhancement of thermoelectric performance in rare earth-doped Sr3Ti2O7 by symmetry restoration of TiO6 octahedra. Journal of Electroceramics, 2010, 24, 76-82.	2.0	29
108	Deposition mechanism of anatase TiO2 from an aqueous solution and its site-selective deposition. Solid State Ionics, 2004, 172, 283-288.	2.7	28

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109	Deposition of Î³-FeOOH, Fe3O4 and Fe on Pd-catalyzed substrates. Journal of Crystal Growth, 2005, 284, 176-183.	1.5	28
110	Exfoliation of Layers in Na_{<I>x</I>}CoO₂. Journal of Nanoscience and Nanotechnology, 2006, 6, 1632-1638.	0.9	28
111	Variable on-demand release function of magnetoresponsive hybrid capsules. Journal of Colloid and Interface Science, 2011, 361, 109-114.	9.4	28
112	Anti-reflective coatings prepared via layer-by-layer assembly of mesoporous silica nanoparticles and polyelectrolytes. Polymer Journal, 2015, 47, 190-194.	2.7	28
113	Review on Wearable Thermoelectric Generators: From Devices to Applications. Energies, 2022, 15, 3375.	3.1	28
114	The Enhanced Penetration of Oxygen along the Grain Boundary in Semiconducting Barium Titanate. Japanese Journal of Applied Physics, 1991, 30, 1252-1255.	1.5	27
115	Ca-doped HoCoO3 as p-type oxide thermoelectric material. Materials Letters, 2001, 48, 225-229.	2.6	27
116	Template-Free Self-Assembly of a Nanoporous TiO2Thin Film. Journal of the American Ceramic Society, 2007, 90, 831-837.	3.8	27
117	Experimental characterization of the electronic structure of anatase TiO2: Thermopower modulation. Applied Physics Letters, 2010, 97, 172112.	3.3	27
118	Nanocomposites of CuO/SWCNT: Promising thermoelectric materials for mid-temperature thermoelectric generators. Journal of the European Ceramic Society, 2019, 39, 3307-3314.	5.7	27
119	Improvement in Thermoelectric Characteristics of n-type Iron Disilicide by Local Composition Modification. Journal of the American Ceramic Society, 1995, 78, 1089-1092.	3.8	26
120	Realizing a High ZT of 1.6 in N-Type Mg₃Sb₂-Based Zintl Compounds through Mn and Se Codoping. ACS Applied Materials & Interfaces, 2020, 12, 21799-21807.	8.0	26
121	Room Temperature CVD of TiO₂ Thin Films and Their Electronic Properties. Science of Advanced Materials, 2009, 1, 138-143.	0.7	26
122	Site-Selective Deposition and Micropatterning of Zirconia Thin Films on Templates of Self-Assembled Monolayers. Journal of the Ceramic Society of Japan, 2002, 110, 379-385.	1.3	25
123	Cationic Silver Nanoparticles Dispersed in Water Prepared from Insoluble Salts. Chemistry Letters, 2003, 32, 194-195.	1.3	25
124	Thermoelectric performance enhancement of (BiS)1.2(TiS2)2 misfit layer sulfide by chromium doping. Journal of Advanced Ceramics, 2013, 2, 42-48.	17.4	25
125	Statistical Analysis of Dielectric Strength of BaTiO3Ceramic Films. Japanese Journal of Applied Physics, 1980, 19, 867-871.	1.5	24
126	Formation and Characterization of Indium Hydroxide Films. Journal of the Ceramic Society of Japan, 1998, 106, 381-384.	1.3	24

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127	Effect of Postdeposition Annealing on Luminescence from Zinc Oxide Patterns Prepared by the Electroless Deposition Process. Journal of the Electrochemical Society, 2004, 151, H169.	2.9	24
128	Solution synthesis and growth mechanism of SrTiO₃mesocrystals. CrystEngComm, 2013, 15, 679-685.	2.6	24
129	Enhancement of thermoelectric properties by lattice softening and energy band gap control in Te-deficient InTe1â^'Î´. AIP Advances, 2018, 8, .	1.3	24
130	Comparison of Mechanical and Dielectric Strength Distributions for Variously Surface-Finished Titanium Dioxide Ceramics. Journal of the American Ceramic Society, 1989, 72, 1373-1376.	3.8	23
131	Crystallization of Hydroxyapatite under Langmuir Monolayers. Journal of the Ceramic Society of Japan, 1996, 104, 291-295.	1.3	23
132	Change in the Oxidation State of the Adsorbed Oxygen Equilibrated at 25Â°C on ZnO Surface during Room Temperature Annealing after Rapid Quenching. Japanese Journal of Applied Physics, 1999, 38, 1534-1538.	1.5	23
133	Nano/Micro Patterning of Inorganic Thin Films. Bulletin of the Chemical Society of Japan, 2008, 81, 1337-1376.	3.2	23
134	Titanium sulphene: two-dimensional confinement of electrons and phonons giving rise to improved thermoelectric performance. Physical Chemistry Chemical Physics, 2012, 14, 15641.	2.8	23
135	Micropatterning of lanthanum-based oxide thin film on self-assembled monolayers. Journal of Colloid and Interface Science, 2004, 274, 392-397.	9.4	22
136	Anisotropic carrier transport properties in layered cobaltate epitaxial films grown by reactive solid-phase epitaxy. Applied Physics Letters, 2009, 94, .	3.3	22
137	Thermoelectric Performance of SrTiO₃ Enhanced by Nanostructuringâ€"Self-Assembled Particulate Film of Nanocubes. ACS Applied Materials & Interfaces, 2013, 5, 10933-10937.	8.0	22
138	Doubling the ZT record of TiS₂-based thermoelectrics by incorporation of ionized impurity scattering. Journal of Materials Chemistry C, 2018, 6, 9345-9353.	5.5	22
139	Realization of an Ultrahigh Power Factor and Enhanced Thermoelectric Performance in TiS₂ via Microstructural Texture Engineering. ACS Applied Materials & Interfaces, 2020, 12, 41687-41695.	8.0	22
140	Light-excited superhydrophilicity of amorphous TiO2 thin films deposited in an aqueous peroxotitanate solution. Langmuir, 2004, 20, 3188-94.	3.5	22
141	Synthesis of an oxygen nonstoichiometric Sr6Co5O15 phase. Materials Research Bulletin, 2006, 41, 732-739.	5.2	20
142	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.	2.1	20
143	X-ray absorption study on LiNi0.8Co0.15Al0.05O2 cathode material for lithium-ion batteries. Ceramics International, 2008, 34, 859-862.	4.8	20
144	Origin of high electrical conductivity in alkaline-earth doped LaCoO3. Journal of Materials Chemistry, 2012, 22, 11003.	6.7	20

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145	Growth Behavior of TiO2 Particles via the Liquid Phase Deposition Process. Journal of the Ceramic Society of Japan, 2007, 115, 831-834.	1.1	19
146	Templated nucleation of hybrid iron oxide nanoparticles on polysaccharide nanogels. Colloid and Polymer Science, 2013, 291, 1375-1380.	2.1	19
147	Enhanced thermoelectric performance of xMoS2â€“TiS2 nanocomposites. Journal of Alloys and Compounds, 2016, 666, 346-351.	5.5	19
148	Fibrous and Porous Microstructure Formation in 6Hâ€SiC by Anodization in HF Solution. Journal of the Electrochemical Society, 1998, 145, 2456-2460.	2.9	18
149	Electric-Field Modulation of Thermopower for the KTaO₃Field-Effect Transistors. Applied Physics Express, 2009, 2, 121103.	2.4	18
150	LaCo_{1â€“x}Ni_xO₃ with Improved Electrical Conductivity. Inorganic Chemistry, 2012, 51, 9259-9264.	4.0	18
151	Influence of excess SrO on the thermoelectric properties of heavily doped SrTiO3 ceramics. Applied Physics Letters, 2013, 102, .	3.3	18
152	Enhancement of Electrical Conduction in ZnO by CoO Doping. Journal of the American Ceramic Society, 1982, 65, c93-c94.	3.8	17
153	Electrical and Thermal Transport Properties in Layer-Structured (ZnO)mIn2O3(m=5 and 9) Ceramics. Japanese Journal of Applied Physics, 2002, 41, 6430-6435.	1.5	17
154	Synthesis of Acicular BaTiO3 Particles using Acicular Barium Oxalates. Crystal Growth and Design, 2008, 8, 169-171.	3.0	17
155	Effects of Transition Metal Substitution on the Thermoelectric Properties of Metallic (BiS)1.2(TiS2)2 Misfit Layer Sulfide. Journal of Electronic Materials, 2014, 43, 1870-1874.	2.2	17
156	Reaction Sintering of Polycarbosilane-Impregnated Compact of Silicon Carbide Hollow Particles and the Resultant Thermoelectric Properties. Journal of the American Ceramic Society, 1991, 74, 2922-2924.	3.8	16
157	Self-assembly of Particle Wires in 2-D Ordered Array. Chemistry Letters, 2003, 32, 1016-1017.	1.3	16
158	Atomic scale flattening of organosilane self-assembled monolayer and patterned tin hydroxide thin films. Journal of the European Ceramic Society, 2004, 24, 427-434.	5.7	16
159	Epitaxial Film Growth of Li_xCoO₂ (0.6 â‰ x â‰ 0.9) via Topotactic Ion Exchange of Na_{0.8}CoO₂. Crystal Growth and Design, 2008, 8, 755-758.	3.0	16
160	Direct observations of Ca ordering in Ca0.33CoO2 thin films with different superstructures. Applied Physics Letters, 2008, 93, .	3.3	16
161	Self-originating two-step synthesis of coreâ€“shell structured La-doped SrTiO₃ nanocubes. Journal of Asian Ceramic Societies, 2013, 1, 35-40.	2.3	16
162	A highly-efficient concentrated perovskite solar cell-thermoelectric generator tandem system. Journal of Energy Chemistry, 2021, 59, 730-735.	12.9	16

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163	Simultaneous Measurement of Electrical Conductivity and the Amount of Adsorbed Oxygen in Porous ZnO. Bulletin of the Chemical Society of Japan, 1988, 61, 1979-1983.	3.2	15
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