

# Si-Young Choi

## List of Publications by Year in descending order

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191  
papers

6,772  
citations

66343

42  
h-index

82547

72  
g-index

199  
all docs

199  
docs citations

199  
times ranked

9772  
citing authors

#	ARTICLE	IF	CITATIONS
1	Emergence of room-temperature ferroelectricity at reduced dimensions. <i>Science</i> , 2015, 349, 1314-1317.	12.6	259
2	Reversible phase modulation and hydrogen storage in multivalent VO <sub>2</sub> epitaxial thin films. <i>Nature Materials</i> , 2016, 15, 1113-1119.	27.5	237
3	Coplanar semiconductor-metal circuitry defined on few-layer MoTe <sub>2</sub> via polymorphic heteroepitaxy. <i>Nature Nanotechnology</i> , 2017, 12, 1064-1070.	31.5	210
4	Manganese based layered oxides with modulated electronic and thermodynamic properties for sodium ion batteries. <i>Nature Communications</i> , 2019, 10, 5203.	12.8	202
5	Ubiquitous magneto-mechano-electric generator. <i>Energy and Environmental Science</i> , 2015, 8, 2402-2408.	30.8	177
6	Nearly room temperature ferromagnetism in a magnetic metal-rich van der Waals metal. <i>Science Advances</i> , 2020, 6, eaay8912.	10.3	172
7	Atomic-Scale Visualization of Antisite Defects in $\text{LiFePO}_4$ . <i>Physical Review Letters</i> , 2008, 100, 125502.	7.8	165
8	Isostructural metal-insulator transition in VO <sub>2</sub> . <i>Science</i> , 2018, 362, 1037-1040.	12.6	158
9	The influence of CNTs on the thermoelectric properties of a CNT/Bi <sub>2</sub> Te <sub>3</sub> composite. <i>Carbon</i> , 2013, 52, 541-549.	10.3	156
10	Enhancement of the anisotropic photocurrent in ferroelectric oxides by strain gradients. <i>Nature Nanotechnology</i> , 2015, 10, 972-979.	31.5	134
11	Facile synthesis of manganese carbonate quantum dots/Ni(HCO <sub>3</sub> ) <sub>2</sub> •MnCO <sub>3</sub> composites as advanced cathode materials for high energy density asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22102-22117.	10.3	127
12	Effect of oxygen partial pressure on grain boundary structure and grain growth behavior in BaTiO <sub>3</sub> . <i>Acta Materialia</i> , 2006, 54, 2849-2855.	7.9	120
13	Direct Imaging of Reconstructed Atoms on TiO <sub>2</sub> (110) Surfaces. <i>Science</i> , 2008, 322, 570-573.	12.6	120
14	Sintering kinetics by structural transition at grain boundaries in barium titanate. <i>Acta Materialia</i> , 2004, 52, 2937-2943.	7.9	106
15	Controlling spin current polarization through non-collinear antiferromagnetism. <i>Nature Communications</i> , 2020, 11, 4671.	12.8	103
16	Highly Conductive Aluminum Textile and Paper for Flexible and Wearable Electronics. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7718-7723.	13.8	101
17	Low-loss Piezoelectric Single-crystal Fibers for Enhanced Magnetic Energy Harvesting with Magnetolectric Composite. <i>Advanced Energy Materials</i> , 2016, 6, 1601244.	19.5	100
18	Sharpened VO <sub>2</sub> Phase Transition via Controlled Release of Epitaxial Strain. <i>Nano Letters</i> , 2017, 17, 5614-5619.	9.1	93

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19	Gigantic Electrostrain in Duplex Structured Alkaline Niobates. <i>Chemistry of Materials</i> , 2012, 24, 3363-3369.	6.7	92
20	Configurable topological textures in strain graded ferroelectric nanoplates. <i>Nature Communications</i> , 2018, 9, 403.	12.8	91
21	Role of additional PCBM layer between ZnO and photoactive layers in inverted bulk-heterojunction solar cells. <i>Scientific Reports</i> , 2014, 4, 4306.	3.3	83
22	Writing monolithic integrated circuits on a two-dimensional semiconductor with a scanning light probe. <i>Nature Electronics</i> , 2018, 1, 512-517.	26.0	74
23	Orientation-Dependent Arrangement of Antisite Defects in Lithium Iron(II) Phosphate Crystals. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 543-546.	13.8	73
24	Grain-Growth Behavior during Stepwise Sintering of Barium Titanate in Hydrogen Gas and Air. <i>Journal of the American Ceramic Society</i> , 2003, 86, 2228-2230.	3.8	72
25	Assessment of Strain-Generated Oxygen Vacancies Using SrTiO <sub>3</sub> Bicrystals. <i>Nano Letters</i> , 2015, 15, 4129-4134.	9.1	69
26	Spin-Orbit Torque Switching in an All-Van der Waals Heterostructure. <i>Advanced Materials</i> , 2022, 34, e2101730.	21.0	68
27	Room temperature fabricated ZnO thin film transistor using high-K Bi <sub>1.5</sub> Zn <sub>1.0</sub> Nb <sub>1.5</sub> O <sub>7</sub> gate insulator prepared by sputtering. <i>Applied Physics Letters</i> , 2006, 89, 022905.	3.3	65
28	Distinct Configurations of Antisite Defects in Ordered Metal Phosphates: Comparison between LiMnPO <sub>4</sub> and LiFePO <sub>4</sub> . <i>Physical Review Letters</i> , 2012, 108, 195501.	7.8	61
29	Highly Conducting, Transparent, and Flexible Indium Oxide Thin Film Prepared by Atomic Layer Deposition Using a New Liquid Precursor Et <sub>2</sub> InN(SiMe <sub>3</sub> ) <sub>2</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 17481-17488.	8.0	58
30	Highly enhanced ferroelectricity in HfO <sub>2</sub> -based ferroelectric thin film by light ion bombardment. <i>Science</i> , 2022, 376, 731-738.	12.6	58
31	Atomic-Scale Observation of Oxygen Substitution and Its Correlation with Hole-Transport Barriers in Cu <sub>2</sub> ZnSnSe <sub>4</sub> Thin-Film Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1501902.	19.5	56
32	Heteroepitaxial van der Waals semiconductor superlattices. <i>Nature Nanotechnology</i> , 2021, 16, 1092-1098.	31.5	54
33	A Novel Solution-Stamping Process for Preparation of a Highly Conductive Aluminum Thin Film. <i>Advanced Materials</i> , 2011, 23, 5524-5528.	21.0	53
34	Minimal residual disease-based effect and long-term outcome of first-line dasatinib combined with chemotherapy for adult Philadelphia chromosome-positive acute lymphoblastic leukemia. <i>Annals of Oncology</i> , 2016, 27, 1081-1088.	1.2	53
35	Crystal Facet-Manipulated 2D Pt Nanodendrites to Achieve an Intimate Heterointerface for Hydrogen Evolution Reactions. <i>Journal of the American Chemical Society</i> , 2022, 144, 9033-9043.	13.7	53
36	Unleashing the Full Potential of Magnetoelectric Coupling in Film Heterostructures. <i>Advanced Materials</i> , 2017, 29, 1605688.	21.0	50

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37	Site-selectivity of 3d metal cation dopants and dielectric response in calcium copper titanate. Applied Physics Letters, 2006, 88, 091917.	3.3	48
38	Sustained plasmid DNA release from dissolving mineral coatings. Acta Biomaterialia, 2010, 6, 3426-3435.	8.3	48
39	Phase transitions via selective elemental vacancy engineering in complex oxide thin films. Scientific Reports, 2016, 6, 23649.	3.3	46
40	Insights into cationic ordering in Re-based double perovskite oxides. Scientific Reports, 2016, 6, 19746.	3.3	45
41	Compositional and Geometrical Effects of Bimetallic Cu <sub>2</sub> Sn Catalysts on Selective Electrochemical CO <sub>2</sub> Reduction to CO. ACS Applied Energy Materials, 2020, 3, 4466-4473.	5.1	44
42	Black esophagus with concomitant candidiasis developed after diabetic ketoacidosis. World Journal of Gastroenterology, 2007, 13, 5662.	3.3	44
43	A Layer-Structured Electrode Material Reformed by a PO <sub>4</sub> O <sub>2</sub> Hybrid Framework toward Enhanced Lithium Storage and Stability. Advanced Energy Materials, 2016, 6, 1501717.	19.5	43
44	Directing Oxygen Vacancy Channels in SrFeO <sub>2.5</sub> Epitaxial Thin Films. ACS Applied Materials & Interfaces, 2018, 10, 4831-4837.	8.0	43
45	Wafer-scale and selective-area growth of high-quality hexagonal boron nitride on Ni(111) by metal-organic chemical vapor deposition. Scientific Reports, 2019, 9, 5736.	3.3	42
46	Reconfigurable photo-induced doping of two-dimensional van der Waals semiconductors using different photon energies. Nature Electronics, 2021, 4, 38-44.	26.0	42
47	Continuous Oxygen Vacancy Gradient in TiO <sub>2</sub> Photoelectrodes by a Photoelectrochemical-Driven Self-Purification Process. Advanced Energy Materials, 2022, 12, .	19.5	42
48	Direct Physical Imaging and Chemical Probing of LiFePO <sub>4</sub> for Lithium-Ion Batteries. Advanced Functional Materials, 2010, 20, 4219-4232.	14.9	41
49	Electric-field-induced spin disorder-to-order transition near a multiferroic triple phase point. Nature Physics, 2017, 13, 189-196.	16.7	41
50	Maximization of sodium storage capacity of pure carbon material used in sodium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 16149-16160.	10.3	41
51	Direct imaging of the electron liquid at oxide interfaces. Nature Nanotechnology, 2018, 13, 198-203.	31.5	40
52	Inorganic coatings for optimized non-viral transfection of stem cells. Scientific Reports, 2013, 3, 1567.	3.3	38
53	Upshift of Phase Transition Temperature in Nanostructured PbTiO <sub>3</sub> Thick Film for High Temperature Applications. ACS Applied Materials & Interfaces, 2014, 6, 11980-11987.	8.0	38
54	Kinetic formation and thickening of intergranular amorphous films at grain boundaries in barium titanate. Acta Materialia, 2004, 52, 3721-3726.	7.9	37

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55	Surface-Orientation-Dependent Distribution of Subsurface Cation-Exchange Defects in Olivine-Phosphate Nanocrystals. ACS Nano, 2015, 9, 850-859.	14.6	37
56	Epitaxial van der Waals Contacts between Transition-Metal Dichalcogenide Monolayer Polymorphs. Nano Letters, 2019, 19, 1814-1820.	9.1	37
57	FeF <sub>3</sub> ·0.33H <sub>2</sub> O@carbon nanosheets with honeycomb architectures for high-capacity lithium-ion cathode storage by enhanced pseudocapacitance. Journal of Materials Chemistry A, 2021, 9, 16370-16383.	10.3	37
58	All-Dry Transfer of Graphene Film by van der Waals Interactions. Nano Letters, 2019, 19, 3590-3596.	9.1	36
59	Direct Determination of Dopant Site Selectivity in Ordered Perovskite CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Polycrystals by Aberration-Corrected STEM. Advanced Materials, 2009, 21, 885-889.	21.0	34
60	Enhanced off-resonance magnetoelectric response in laser annealed PZT thick film grown on magnetostrictive amorphous metal substrate. Applied Physics Letters, 2015, 107, .	3.3	34
61	Strong and anisotropic magnetoelectricity in composites of magnetostrictive Ni and solid-state grown lead-free piezoelectric BZT/BCT single crystals. Journal of Asian Ceramic Societies, 2017, 5, 36-41.	2.3	34
62	Microstructure and high-temperature strength of silicon carbide with 2000 ppm yttria. Journal of the European Ceramic Society, 2017, 37, 4449-4455.	5.7	34
63	Grain boundary mobility and grain growth behavior in polycrystals with faceted wet and dry boundaries. Acta Materialia, 2009, 57, 2128-2135.	7.9	33
64	Superior Lithium Storage Performance using Sequentially Stacked MnO <sub>2</sub> /Reduced Graphene Oxide Composite Electrodes. ChemSusChem, 2015, 8, 1484-1491.	6.8	33
65	Multifunctional Mixed SAMs That Promote Both Cell Adhesion and Noncovalent DNA Immobilization. Langmuir, 2008, 24, 6873-6880.	3.5	32
66	Strain-mediated point defects in thermoelectric p-type bismuth telluride polycrystalline. Nano Energy, 2019, 55, 486-493.	16.0	32
67	Effect of step free energy on delayed abnormal grain growth in a liquid phase-sintered BaTiO <sub>3</sub> model system. Journal of the European Ceramic Society, 2011, 31, 755-762.	5.7	29
68	Tunable high-temperature itinerant antiferromagnetism in a van der Waals magnet. Nature Communications, 2021, 12, 2844.	12.8	29
69	Self-Growth of Centimeter-Scale Single Crystals by Normal Sintering Process in Modified Potassium Sodium Niobate Ceramics. Scientific Reports, 2015, 5, 17656.	3.3	28
70	Vacancy-Induced Electronic Structure Variation of Acceptors and Correlation with Proton Conduction in Perovskite Oxides. Angewandte Chemie - International Edition, 2016, 55, 13499-13503.	13.8	28
71	Inhibition of abnormal grain growth in BaTiO <sub>3</sub> by addition of Al <sub>2</sub> O <sub>3</sub> . Journal of the European Ceramic Society, 2006, 26, 1619-1628.	5.7	27
72	Environmental parameters influence non-viral transfection of human mesenchymal stem cells for tissue engineering applications. Cell and Tissue Research, 2012, 347, 689-699.	2.9	27

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73	Fabrication of Foldable Metal Interconnections by Hybridizing with Amorphous Carbon Ultrathin Anisotropic Conductive Film. ACS Nano, 2019, 13, 7175-7184.	14.6	27
74	Tailoring the Magnetoelectric Properties of Pb(Zr,Ti)O <sub>3</sub> Film Deposited on Amorphous Metglas Foil by Laser Annealing. Journal of the American Ceramic Society, 2016, 99, 2680-2687.	3.8	26
75	Subsurface Space-Charge Dopant Segregation to Compensate Surface Excess Charge in a Perovskite Oxide. Angewandte Chemie - International Edition, 2016, 55, 9680-9684.	13.8	26
76	Nano Hard Carbon Anodes for Sodium-Ion Batteries. Nanomaterials, 2019, 9, 793.	4.1	26
77	Strain-driven disproportionation at a correlated oxide metal-insulator transition. Physical Review B, 2020, 101, .	3.2	26
78	Flexopiezoelectricity at ferroelastic domain walls in WO <sub>3</sub> films. Nature Communications, 2020, 11, 4898.	12.8	25
79	Stabilizing hidden room-temperature ferroelectricity via a metastable atomic distortion pattern. Nature Communications, 2020, 11, 4944.	12.8	25
80	Facile MOF-derived one-pot synthetic approach toward Ru single atoms, nanoclusters, and nanoparticles dispersed on CeO <sub>2</sub> supports for enhanced ammonia synthesis. Journal of Catalysis, 2022, 408, 316-328.	6.2	25
81	Initial cation stoichiometry and current-voltage behavior in Sc-doped calcium copper titanate. Applied Physics Letters, 2006, 89, 191907.	3.3	24
82	A long-term evaluation of erythema and pigmentation induced by ultraviolet radiations of different wavelengths. Skin Research and Technology, 2007, 13, 360-368.	1.6	24
83	Cation Disordering by Rapid Crystal Growth in Olivine-Phosphate Nanocrystals. Nano Letters, 2012, 12, 3068-3073.	9.1	24
84	The effect of mineral coating morphology on mesenchymal stem cell attachment and expansion. Journal of Materials Chemistry, 2012, 22, 25288.	6.7	23
85	Long-Term Sustainable Aluminum Precursor Solution for Highly Conductive Thin Films on Rigid and Flexible Substrates. ACS Applied Materials & Interfaces, 2014, 6, 15480-15487.	8.0	23
86	Growth of self-textured barium hexaferrite ceramics by normal sintering process and their anisotropic magnetic properties. Journal of the European Ceramic Society, 2017, 37, 4701-4706.	5.7	23
87	Enhanced catalytic activity of edge-exposed 1T phase WS <sub>2</sub> grown directly on a WO <sub>3</sub> nanohelical array for water splitting. Journal of Materials Chemistry A, 2019, 7, 26378-26384.	10.3	23
88	Inverse size-dependence of piezoelectricity in single BaTiO <sub>3</sub> nanoparticles. Nano Energy, 2019, 58, 78-84.	16.0	23
89	Electronic and Structural Transitions of LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Heterostructure Driven by Polar Field-Assisted Oxygen Vacancy Formation at the Surface. Advanced Science, 2021, 8, e2002073.	11.2	23
90	Dislocation structures of low-angle boundaries in Nb-doped SrTiO <sub>3</sub> bicrystals. Journal of Materials Science, 2006, 41, 2621-2625.	3.7	22

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91	Bulk synthesis of ordered macroporous silica particles for superhydrophobic coatings. <i>Journal of Colloid and Interface Science</i> , 2012, 386, 88-98.	9.4	22
92	Atomically thin three-dimensional membranes of van der Waals semiconductors by wafer-scale growth. <i>Science Advances</i> , 2019, 5, eaaw3180.	10.3	22
93	Twisted van der Waals Josephson Junction Based on a High- $T_c$ Superconductor. <i>Nano Letters</i> , 2021, 21, 10469-10477.	9.1	22
94	Pressure-Dependent Growth of Wafer-Scale Few-layer h-BN by Metal-Organic Chemical Vapor Deposition. <i>Crystal Growth and Design</i> , 2017, 17, 2569-2575.	3.0	21
95	Improvements in structural and optical properties of wafer-scale hexagonal boron nitride film by post-growth annealing. <i>Scientific Reports</i> , 2019, 9, 10590.	3.3	21
96	TEM Observations of Singular Grain Boundaries and their Roughening Transition in $\text{TiO}_2$ -Excess $\text{BaTiO}_3$ . <i>International Journal of Materials Research</i> , 2003, 94, 193-199.	0.8	21
97	Direct Deposition of Highly Conductive Aluminum Thin Film on Substrate by Solution-Dipping Process. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 4581-4585.	8.0	20
98	Microstructural development of cobalt ferrite ceramics and its influence on magnetic properties. <i>Metals and Materials International</i> , 2013, 19, 1209-1213.	3.4	20
99	Directional ionic transport across the oxide interface enables low-temperature epitaxy of rutile $\text{TiO}_2$ . <i>Nature Communications</i> , 2020, 11, 1401.	12.8	20
100	Accelerated Hydrogen Diffusion and Surface Exchange by Domain Boundaries in Epitaxial $\text{VO}_2$ Thin Films. <i>ACS Nano</i> , 2020, 14, 2533-2541.	14.6	20
101	Reliable and cost effective design of intermetallic $\text{Ni}_2\text{Si}$ nanowires and direct characterization of its mechanical properties. <i>Scientific Reports</i> , 2015, 5, 15050.	3.3	19
102	Effect of raw powder particle size on microstructure and light transmittance of $\gamma$ -alumina films deposited by granule spray in vacuum. <i>Ceramics International</i> , 2016, 42, 3584-3590.	4.8	19
103	Doping behavior of Br in $\text{Li}_4\text{Ti}_5\text{O}_{12}$ anode materials and their electrochemical performance for Li-ion batteries. <i>Ceramics International</i> , 2019, 45, 17574-17579.	4.8	19
104	Designing efficient spin Seebeck-based thermoelectric devices via simultaneous optimization of bulk and interface properties. <i>Energy and Environmental Science</i> , 2021, 14, 3480-3491.	30.8	19
105	Identification of Point Defects in Atomically Thin Transition-Metal Dichalcogenide Semiconductors as Active Dopants. <i>Nano Letters</i> , 2021, 21, 3341-3354.	9.1	19
106	Composite coating of $\text{Li}_2\text{O} \cdot 2\text{B}_2\text{O}_3$ and carbon as multi-conductive electron/Li-ion channel on the surface of $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ cathode. <i>Journal of Power Sources</i> , 2017, 365, 249-256.	7.8	19
107	Controlled shape with enhanced electrochemical performance of various ions doped $\text{Li}_2\text{MnSiO}_4$ cathode nanoparticles. <i>Materials Letters</i> , 2013, 105, 113-116.	2.6	18
108	Epitaxial antiperovskite/perovskite heterostructures for materials design. <i>Science Advances</i> , 2020, 6, eaba4017.	10.3	18



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109	Resistive Switching in Few-Layer Hexagonal Boron Nitride Mediated by Defects and Interfacial Charge Transfer. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 46288-46295.	8.0	18
110	Low-voltage magnetoelectric coupling in membrane heterostructures. <i>Science Advances</i> , 2021, 7, eabh2294.	10.3	18
111	Effect of Al <sub>2</sub> O <sub>3</sub> dopant on abnormal grain growth in BaTiO <sub>3</sub> . <i>Journal of the European Ceramic Society</i> , 2005, 25, 2033-2036.	5.7	17
112	Change in cation nonstoichiometry at interfaces during crystal growth in polycrystalline BaTiO <sub>3</sub> . <i>Applied Physics Letters</i> , 2006, 88, 011909.	3.3	17
113	Influence of Sintering Atmosphere on Abnormal Grain Growth Behaviour in Potassium Sodium Niobate Ceramics Sintered at Low Temperature. <i>Journal of the Korean Ceramic Society</i> , 2011, 48, 641-647.	2.3	17
114	Reversible Manipulation of Photoconductivity Caused by Surface Oxygen Vacancies in Perovskite Stannates with Ultraviolet Light. <i>Advanced Materials</i> , 2022, 34, e2107650.	21.0	17
115	Manufacture of a micro-sized piezoelectric ceramic structure using a sacrificial polymer mold insert. <i>Microsystem Technologies</i> , 2013, 19, 343-349.	2.0	16
116	ZrB <sub>2</sub> and SiC Nano Powder Mixture Prepared Using ZrSi <sub>2</sub> and Modified Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , 2013, 96, 1051-1054.	3.8	16
117	Atomic-level defect modulation and characterization methods in 2D materials. <i>APL Materials</i> , 2021, 9, .	5.1	16
118	Facet-Dependent Phase Control by Band Filling and Anisotropic Electron Lattice Coupling in HVO <sub>2</sub> Epitaxial Films. <i>Advanced Electronic Materials</i> , 2018, 4, 1800128.	5.1	15
119	Real-Time Observation of Crystal Evaporation in a Metal Phosphate at High Temperature. <i>Journal of the American Chemical Society</i> , 2013, 135, 7811-7814.	13.7	14
120	Ferroelastic twin structures in epitaxial WO <sub>3</sub> thin films. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	14
121	Capturing Heterogeneous Nucleation of Nanoscale Pits and Subsequent Crystal Shrinkage during Ostwald Ripening of a Metal Phosphate. <i>ACS Nano</i> , 2015, 9, 327-335.	14.6	14
122	Regulator of Calcineurin 3 Ameliorates Autoimmune Arthritis by Suppressing Th17 Cell Differentiation. <i>American Journal of Pathology</i> , 2017, 187, 2034-2045.	3.8	14
123	Disordered ferroelectricity in the PbTiO <sub>3</sub> /SrTiO <sub>3</sub> superlattice thin film. <i>APL Materials</i> , 2017, 5, 066104.	5.1	14
124	Ferroelastically protected polarization switching pathways to control electrical conductivity in strain-graded ferroelectric nanoplates. <i>Physical Review Materials</i> , 2018, 2, .	2.4	14
125	Facile Synthesis of Necessary Amorphous Structure FePO <sub>4</sub> Nanospheres as Superior Sodium-Ion Battery Cathodes. <i>ACS Applied Energy Materials</i> , 2022, 5, 5954-5963.	5.1	14
126	Abnormal Grain Growth in Barium Titanate Doped with Alumina. <i>Journal of the American Ceramic Society</i> , 2006, 89, 060427083300023-???	3.8	12



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127	Abnormal Grain Growth and Intergranular Amorphous Film Formation in BaTiO <sub>3</sub> . Journal of the American Ceramic Society, 2007, 90, 645-648.	3.8	12
128	A screening approach reveals the influence of mineral coating morphology on human mesenchymal stem cell differentiation. Biotechnology Journal, 2013, 8, 496-501.	3.5	12
129	Hierarchical Shape Evolution of Cuprous Oxide Micro- and Nanocrystals by Surfactant-Assisted Electrochemical Deposition. Crystal Growth and Design, 2015, 15, 4969-4974.	3.0	12
130	Electrochemical Deposition of Flat Nanoporous Pt Layers with Small Pore Dimensions. Electrochimica Acta, 2016, 189, 196-204.	5.2	12
131	Improved electrochemical properties of patterned Si film electrodes. Microelectronic Engineering, 2012, 89, 104-108.	2.4	11
132	Quadruple-junction lattice coherency and phase separation in a binary-phase system. Nature Communications, 2015, 6, 8252.	12.8	11
133	Effect of cation ratio and order on magnetic circular dichroism in the double perovskite Sr <sub>2</sub> Fe <sub>1+Re</sub> 1-O <sub>6</sub> . Ultramicroscopy, 2018, 193, 137-142.	1.9	11
134	Harnessing Selective Exsolution of Sn Metal to Enhance Electrical Conductivity in Oxygen-Deficient Perovskite Stannates. Advanced Functional Materials, 2021, 31, 2105086.	14.9	11
135	Heterogeneous integration of single-crystalline rutile nanomembranes with steep phase transition on silicon substrates. Nature Communications, 2021, 12, 5019.	12.8	11
136	Subsurface Distribution of Antisite Defects in LiMnPO <sub>4</sub> : Direct Comparison with LiFePO <sub>4</sub> . Journal of Physical Chemistry C, 2016, 120, 25985-25989.	3.1	10
137	Characteristics of Fe-Cr-Al Alloy Nanopowders Prepared by Electrical Wire Explosion Process under Liquid Media. Materials Transactions, 2011, 52, 250-253.	1.2	9
138	Combinatory treatment using tacrolimus and a STAT3 inhibitor regulate Treg cells and plasma cells. International Journal of Immunopathology and Pharmacology, 2018, 32, 205873841877872.	2.1	9
139	Critical Grain Size for Abnormal Grain Growth of BaTiO <sub>3</sub> in Air. Journal of the Ceramic Society of Japan, 2006, 114, 970-973.	1.3	8
140	High-Resolution Transmission Electron Microscopy Observation of Liquid-Phase Bonded Aluminum/Sapphire Interfaces. Materials Transactions, 2009, 50, 1037-1040.	1.2	8
141	Examination of selectivity of templates for the textured potassium sodium niobate ceramics. Advanced Powder Technology, 2011, 22, 383-389.	4.1	8
142	Integrated 3-D stress determination by hydraulic fracturing in multiple inclined boreholes beneath an underground cavern. International Journal of Rock Mechanics and Minings Sciences, 2015, 75, 44-55.	5.8	8
143	Effects of doping and planar defects on the thermoelectric properties of InAs nanowires. RSC Advances, 2016, 6, 7791-7797.	3.6	8
144	Enhanced polarization by the coherent heterophase interface between polar and non-polar phases. Nanoscale, 2016, 8, 7443-7448.	5.6	8

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145	Pristine Graphene Insertion at the Metal/Semiconductor Interface to Minimize Metal-Induced Gap States. ACS Applied Materials & Interfaces, 2021, 13, 22828-22835.	8.0	8
146	Van der Waals Heterostructure of Hexagonal Boron Nitride with an AlGaN/GaN Epitaxial Wafer for High-Performance Radio Frequency Applications. ACS Applied Materials & Interfaces, 2021, 13, 59440-59449.	8.0	8
147	Direct Observation of Cationic Ordering in Double Perovskite Sr <sub>2</sub> FeReO <sub>6</sub> Crystals. Microscopy and Microanalysis, 2013, 19, 25-28.	0.4	7
148	Symmetry-bridging phase as the mechanism for the large strains in relaxor-PbTiO <sub>3</sub> single crystals. Journal of the European Ceramic Society, 2019, 39, 3327-3331.	5.7	7
149	Polar Metal Phase Induced by Oxygen Octahedral Network Relaxation in Oxide Thin Films. Small, 2020, 16, e2003055.	10.0	7
150	Inherent nanoscale bend of crystal lattice in Fe-doped calcium copper titanate. Applied Physics Letters, 2006, 89, 121903.	3.3	6
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