Si-Young Choi

List of Publications by Year
in descending order

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191	6,772	66343	82547
papers	citations	42 h-index	72 g-index

199	199	199	9772
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reversible Manipulation of Photoconductivity Caused by Surface Oxygen Vacancies in Perovskite Stannates with Ultraviolet Light. Advanced Materials, 2022, 34, e2107650.	21.0	17
2	Spinâ€“Orbit Torque Switching in an Allâ€Van der Waals Heterostructure. Advanced Materials, 2022, 34, e2101730.	21.0	68
3	Continuous Oxygen Vacancy Gradient in TiO₂ Photoelectrodes by a Photoelectrochemicalâ€Driven â€œSelfâ€Purificationâ€•Process. Advanced Energy Materials, 2022, 12, .	19.5	42
4	Reversible Manipulation of Photoconductivity Caused by Surface Oxygen Vacancies in Perovskite Stannates with Ultraviolet Light (Adv. Mater. 5/2022). Advanced Materials, 2022, 34, .	21.0	0
5	Substrate-Dependent Growth Mode Control of MoS₂ Monolayers: Implications for Hydrogen Evolution and Field-Effect Transistors. ACS Applied Nano Materials, 2022, 5, 4336-4342.	5.0	4
6	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:r mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math> superlattice for a model two-dimensional quantum Heisenberg antiferromagnet. Physical Review Research, 2022, 4, .	3.6	5
7	Facile MOF-derived one-pot synthetic approach toward Ru single atoms, nanoclusters, and nanoparticles dispersed on CeO2 supports for enhanced ammonia synthesis. Journal of Catalysis, 2022, 408, 316-328.	6.2	25
8	Ultrafast Graphitization and Reduction of Spongy Graphene Oxide by Low-Energy Electromagnetic Radiation to Boost the Performance and Stability of Carbon-Based Supercapacitors. ACS Applied Energy Materials, 2022, 5, 367-379.	5.1	5
9	Strain Engineering of Domain Coexistence in Epitaxial Lead-Titanite Thin Films. Coatings, 2022, 12, 542.	2.6	1
10	Facile Synthesis of Necessary Amorphous Structure FePO₄ Nanospheres as Superior Sodium-Ion Battery Cathodes. ACS Applied Energy Materials, 2022, 5, 5954-5963.	5.1	14
11	Crystal Facet-Manipulated 2D Pt Nanodendrites to Achieve an Intimate Heterointerface for Hydrogen Evolution Reactions. Journal of the American Chemical Society, 2022, 144, 9033-9043.	13.7	53
12	Highly enhanced ferroelectricity in HfO ₂ -based ferroelectric thin film by light ion bombardment. Science, 2022, 376, 731-738.	12.6	58
13	Thermal stress-assisted annealing to improve the crystalline quality of an epitaxial YSZ buffer layer on Si. Journal of Materials Chemistry C, 2022, 10, 10027-10036.	5.5	5
14	Reconfigurable photo-induced doping of two-dimensional van der Waals semiconductors using different photon energies. Nature Electronics, 2021, 4, 38-44.	26.0	42
15	FeF₃Â·0.33H₂O@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
16	Designing efficient spin Seebeck-based thermoelectric devices via simultaneous optimization of bulk and interface properties. Energy and Environmental Science, 2021, 14, 3480-3491.	30.8	19
17	Identification of Point Defects in Atomically Thin Transition-Metal Dichalcogenide Semiconductors as Active Dopants. Nano Letters, 2021, 21, 3341-3354.	9.1	19
18	Electronic and Structural Transitions of LaAlO₃/SrTiO₃ Heterostructure Driven by Polar Fieldâ€Assisted Oxygen Vacancy Formation at the Surface. Advanced Science, 2021, 8, e2002073.	11.2	23

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19	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
20	Tunable high-temperature itinerant antiferromagnetism in a van der Waals magnet. Nature Communications, 2021, 12, 2844.	12.8	29
21	Superior Rate Capability and Cycling Stability in Partially Cation-Disordered Co-Free Li-Rich Layered Materials Enabled by an Initial Activation Process. Chemistry of Materials, 2021, 33, 5115-5126.	6.7	5
22	TEM sample preparation using micro-manipulator for in-situ MEMS experiment. Applied Microscopy, 2021, 51, 8.	1.4	5
23	Heteroepitaxial van der Waals semiconductor superlattices. Nature Nanotechnology, 2021, 16, 1092-1098.	31.5	54
24	Harnessing Selective Exsolution of Sn Metal to Enhance Electrical Conductivity in Oxygenâ€Ðeficient Perovskite Stannates. Advanced Functional Materials, 2021, 31, 2105086.	14.9	11
25	Heterogeneous integration of single-crystalline rutile nanomembranes with steep phase transition on silicon substrates. Nature Communications, 2021, 12, 5019.	12.8	11
26	Structural evolution of hexagonal boron nitride powder by Bead-milling. Materials Letters, 2021, 300, 130118.	2.6	3
27	Visualization of Transition Metal Decoration on h-BN Surface. Nano Letters, 2021, 21, 10562-10569.	9.1	5
28	Atomic-level defect modulation and characterization methods in 2D materials. APL Materials, 2021, 9, .	5.1	16
29	Template Engineering of Metal-to-Insulator Transitions in Epitaxial Bilayer Nickelate Thin Films. ACS Applied Materials & Interfaces, 2021, 13, 54466-54475.	8.0	5
30	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
31	Free-Standing, Robust, and Stable Li⁺ Conductive Li(Sr,Zr)₂(PO₄)₃/PEO Composite Electrolytes for Solid-State Batteries. ACS Applied Energy Materials, 2021, 4, 13974-13982.	5.1	3
32	Low-voltage magnetoelectric coupling in membrane heterostructures. Science Advances, 2021, 7, eabh2294.	10.3	18
33	Twisted van der Waals Josephson Junction Based on a High-T_c Superconductor. Nano Letters, 2021, 21, 10469-10477.	9.1	22
34	Flexopiezoelectricity at ferroelastic domain walls in WO3 films. Nature Communications, 2020, 11, 4898.	12.8	25
35	Stabilizing hidden room-temperature ferroelectricity via a metastable atomic distortion pattern. Nature Communications, 2020, 11, 4944.	12.8	25
36	Epitaxial antiperovskite/perovskite heterostructures for materials design. Science Advances, 2020, 6, eaba4017.	10.3	18

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37	Resistive Switching in Few-Layer Hexagonal Boron Nitride Mediated by Defects and Interfacial Charge Transfer. ACS Applied Materials & Interfaces, 2020, 12, 46288-46295.	8.0	18
38	Controlling spin current polarization through non-collinear antiferromagnetism. Nature Communications, 2020, 11, 4671.	12.8	103
39	Polar Metal Phase Induced by Oxygen Octahedral Network Relaxation in Oxide Thin Films. Small, 2020, 16, e2003055.	10.0	7
40	Directional ionic transport across the oxide interface enables low-temperature epitaxy of rutile TiO2. Nature Communications, 2020, 11, 1401.	12.8	20
41	Strain-driven disproportionation at a correlated oxide metal-insulator transition. Physical Review B, 2020, 101, .	3.2	26
42	Charge density wave modulation in superconducting <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>BaPb</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow><mml:mo>/</mml:mo><mml:mrow><mml:mi>Ba</mml:mi> mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> superlattices. Physical Review B, 2020, 101, .	3.2	4
43	Accelerated Hydrogen Diffusion and Surface Exchange by Domain Boundaries in Epitaxial VO₂ Thin Films. ACS Nano, 2020, 14, 2533-2541.	14.6	20
44	Nearly room temperature ferromagnetism in a magnetic metal-rich van der Waals metal. Science Advances, 2020, 6, eaay8912.	10.3	172
45	Compositional and Geometrical Effects of Bimetallic Cuâ€“Sn Catalysts on Selective Electrochemical CO₂ Reduction to CO. ACS Applied Energy Materials, 2020, 3, 4466-4473.	5.1	44
46	Improvements in structural and optical properties of wafer-scale hexagonal boron nitride film by post-growth annealing. Scientific Reports, 2019, 9, 10590.	3.3	21
47	Self-assembly of correlated (Ti, V)O2 superlattices with tunable lamella periods by kinetically enhanced spinodal decomposition. NPG Asia Materials, 2019, 11, .	7.9	4
48	Atomically thin three-dimensional membranes of van der Waals semiconductors by wafer-scale growth. Science Advances, 2019, 5, eaaw3180.	10.3	22
49	Nano Hard Carbon Anodes for Sodium-Ion Batteries. Nanomaterials, 2019, 9, 793.	4.1	26
50	Fabrication of Foldable Metal Interconnections by Hybridizing with Amorphous Carbon Ultrathin Anisotropic Conductive Film. ACS Nano, 2019, 13, 7175-7184.	14.6	27
51	Doping behavior of Br in Li4Ti5O12 anode materials and their electrochemical performance for Li-ion batteries. Ceramics International, 2019, 45, 17574-17579.	4.8	19
52	All-Dry Transfer of Graphene Film by van der Waals Interactions. Nano Letters, 2019, 19, 3590-3596.	9.1	36
53	Symmetry-bridging phase as the mechanism for the large strains in relaxor-PbTiO3 single crystals. Journal of the European Ceramic Society, 2019, 39, 3327-3331.	5.7	7
54	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

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55	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
56	Epitaxial van der Waals Contacts between Transition-Metal Dichalcogenide Monolayer Polymorphs. Nano Letters, 2019, 19, 1814-1820.	9.1	37
57	Enhanced catalytic activity of edge-exposed 1T phase WS₂ grown directly on a WO₃ nanohelical array for water splitting. Journal of Materials Chemistry A, 2019, 7, 26378-26384.	10.3	23
58	CR6â€interacting factor 1 controls autoimmune arthritis by regulation of signal transducer and activator of transcription 3 pathway and T helper type 17 cells. Immunology, 2019, 156, 413-421.	4.4	4
59	Manganese based layered oxides with modulated electronic and thermodynamic properties for sodium ion batteries. Nature Communications, 2019, 10, 5203.	12.8	202
60	Inverse size-dependence of piezoelectricity in single BaTiO3 nanoparticles. Nano Energy, 2019, 58, 78-84.	16.0	23
61	Strain-mediated point defects in thermoelectric p-type bismuth telluride polycrystalline. Nano Energy, 2019, 55, 486-493.	16.0	32
62	Nanoscaffold WO₃ by Kinetically Controlled Polymorphism. Crystal Growth and Design, 2019, 19, 479-486.	3.0	6
63	Direct imaging of the electron liquid at oxide interfaces. Nature Nanotechnology, 2018, 13, 198-203.	31.5	40
64	Configurable topological textures in strain graded ferroelectric nanoplates. Nature Communications, 2018, 9, 403.	12.8	91
65	Directing Oxygen Vacancy Channels in SrFeO_{2.5} Epitaxial Thin Films. ACS Applied Materials & Interfaces, 2018, 10, 4831-4837.	8.0	43
66	Ro60 Inhibits Colonic Inflammation and Fibrosis in a Mouse Model of Dextran Sulfate Sodium-Induced Colitis. Immunology Letters, 2018, 201, 45-51.	2.5	5
67	Isostructural metal-insulator transition in VO ₂. Science, 2018, 362, 1037-1040.	12.6	158
68	Writing monolithic integrated circuits on a two-dimensional semiconductor with a scanning light probe. Nature Electronics, 2018, 1, 512-517.	26.0	74
69	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
70	Facetâ€Đependent Phase Control by Band Filling and Anisotropic Electronâ€“Lattice Coupling in HVO₂ Epitaxial Films. Advanced Electronic Materials, 2018, 4, 1800128.	5.1	15
71	Effect of cation ratio and order on magnetic circular dichroism in the double perovskite Sr2Fe1+Re1-O6. Ultramicroscopy, 2018, 193, 137-142.	1.9	11
72	Ferroelastically protected polarization switching pathways to control electrical conductivity in strain-graded ferroelectric nanoplates. Physical Review Materials, 2018, 2, .	2.4	14

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73	Unleashing the Full Potential of Magnetoelectric Coupling in Film Heterostructures. Advanced Materials, 2017, 29, 1605688.	21.0	50
74	Strong and anisotropic magnetoelectricity in composites of magnetostrictive Ni and solid-state grown lead-free piezoelectric BZTâ€“BCT single crystals. Journal of Asian Ceramic Societies, 2017, 5, 36-41.	2.3	34
75	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
76	Pressure-Dependent Growth of Wafer-Scale Few-layer h-BN by Metalâ€“Organic Chemical Vapor Deposition. Crystal Growth and Design, 2017, 17, 2569-2575.	3.0	21
77	Electronâ€“Lattice Coupling in Correlated Materials of Low Electron Occupancy. Nano Letters, 2017, 17, 5458-5463.	9.1	6
78	Coplanar semiconductorâ€“metal circuitry defined on few-layer MoTe2 via polymorphic heteroepitaxy. Nature Nanotechnology, 2017, 12, 1064-1070.	31.5	210
79	Regulator of Calcineurin 3 Ameliorates Autoimmune Arthritis by Suppressing Th17 Cell Differentiation. American Journal of Pathology, 2017, 187, 2034-2045.	3.8	14
80	Sharpened VO₂ Phase Transition via Controlled Release of Epitaxial Strain. Nano Letters, 2017, 17, 5614-5619.	9.1	93
81	Disordered ferroelectricity in the PbTiO₃/SrTiO₃ superlattice thin film. APL Materials, 2017, 5, 066104.	5.1	14
82	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
83	Electric-field-induced spin disorder-to-order transition near a multiferroic triple phase point. Nature Physics, 2017, 13, 189-196.	16.7	41
84	Auto-encoders for Noise Reduction in Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2017, 23, 130-131.	0.4	6
85	Composite coating of Li2Oâ€“2B2O3 and carbon as multi-conductive electron/Li-ion channel on the surface of LiNi0.5Mn1.5O4 cathode. Journal of Power Sources, 2017, 365, 249-256.	7.8	19
86	In-situ Observation of Domain Wall Motion in Electroplated Ni80-Fe20 Thin Film by Lorentz TEM and DPC Imaging. Journal of Magnetics, 2017, 22, 563-569.	0.4	6
87	Real-Time Observation of Two-Phase Separation in LiFePO4 at Elevated Temperature. Microscopy and Microanalysis, 2016, 22, 1368-1369.	0.4	0
88	Reversible phase modulation and hydrogen storage in multivalent VO2 epitaxial thin films. Nature Materials, 2016, 15, 1113-1119.	27.5	237
89	Atomicâ€Scale Observation of Oxygen Substitution and Its Correlation with Holeâ€Transport Barriers in Cu₂ZnSnSe₄ Thinâ€Film Solar Cells. Advanced Energy Materials, 2016, 6, 1501902.	19.5	56
90	Tailoring the Magnetoelectric Properties of Pb(Zr,Ti)O₃ Film Deposited on Amorphous Metglas Foil by Laser Annealing. Journal of the American Ceramic Society, 2016, 99, 2680-2687.	3.8	26

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91	Insights into cationic ordering in Re-based double perovskite oxides. Scientific Reports, 2016, 6, 19746.	3.3	45
92	Phase transitions via selective elemental vacancy engineering in complex oxide thin films. Scientific Reports, 2016, 6, 23649.	3.3	46
93	Lowâ€Loss Piezoelectric Singleâ€Crystal Fibers for Enhanced Magnetic Energy Harvesting with Magnetoelectric Composite. Advanced Energy Materials, 2016, 6, 1601244.	19.5	100
94	Vacancyâ€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
95	Vacancyâ€Induced Electronic Structure Variation of Acceptors and Correlation with Proton Conduction in Perovskite Oxides. Angewandte Chemie, 2016, 128, 13697-13701.	2.0	2
96	Subsurface Spaceâ€Charge Dopant Segregation to Compensate Surface Excess Charge in a Perovskite Oxide. Angewandte Chemie - International Edition, 2016, 55, 9680-9684.	13.8	26
97	Subsurface Spaceâ€Charge Dopant Segregation to Compensate Surface Excess Charge in a Perovskite Oxide. Angewandte Chemie, 2016, 128, 9832-9836.	2.0	1
98	Subsurface Distribution of Antisite Defects in LiMnPO₄: Direct Comparison with LiFePO₄. Journal of Physical Chemistry C, 2016, 120, 25985-25989.	3.1	10
99	A Layerâ€Structured Electrode Material Reformed by a PO₄â€O₂ Hybrid Framework toward Enhanced Lithium Storage and Stability. Advanced Energy Materials, 2016, 6, 1501717.	19.5	43
100	Effect of raw powder particle size on microstructure and light transmittance of Î±-alumina films deposited by granule spray in vacuum. Ceramics International, 2016, 42, 3584-3590.	4.8	19
101	Effects of doping and planar defects on the thermoelectric properties of InAs nanowires. RSC Advances, 2016, 6, 7791-7797.	3.6	8
102	Minimal residual disease-based effect and long-term outcome of first-line dasatinib combined with chemotherapy for adult Philadelphia chromosome-positive acute lymphoblastic leukemia. Annals of Oncology, 2016, 27, 1081-1088.	1.2	53
103	Electrochemical Deposition of Flat Nanoporous Pt Layers with Small Pore Dimensions. Electrochimica Acta, 2016, 189, 196-204.	5.2	12
104	Enhanced polarization by the coherent heterophase interface between polar and non-polar phases. Nanoscale, 2016, 8, 7443-7448.	5.6	8
105	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
106	Reliable and cost effective design of intermetallic Ni2Si nanowires and direct characterization of its mechanical properties. Scientific Reports, 2015, 5, 15050.	3.3	19
107	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
108	Ferroelastic twin structures in epitaxial WO3 thin films. Applied Physics Letters, 2015, 107, .	3.3	14

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109	Cationic Ordering and Magnetic Properties of Re-Based Double Perovskite Oxides. Microscopy and Microanalysis, 2015, 21, 125-126.	0.4	0
110	Superior Lithium Storage Performance using Sequentially Stacked MnO₂/Reduced Graphene Oxide Composite Electrodes. ChemSusChem, 2015, 8, 1484-1491.	6.8	33
111	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
112	Capturing Heterogeneous Nucleation of Nanoscale Pits and Subsequent Crystal Shrinkage during Ostwald Ripening of a Metal Phosphate. ACS Nano, 2015, 9, 327-335.	14.6	14
113	Surface-Orientation-Dependent Distribution of Subsurface Cation-Exchange Defects in Olivine-Phosphate Nanocrystals. ACS Nano, 2015, 9, 850-859.	14.6	37
114	Assessment of Strain-Generated Oxygen Vacancies Using SrTiO₃ Bicrystals. Nano Letters, 2015, 15, 4129-4134.	9.1	69
115	Ubiquitous magneto-mechano-electric generator. Energy and Environmental Science, 2015, 8, 2402-2408.	30.8	177
116	Quadruple-junction lattice coherency and phase separation in a binary-phase system. Nature Communications, 2015, 6, 8252.	12.8	11
117	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
118	Enhancement of the anisotropic photocurrent in ferroelectric oxides by strain gradients. Nature Nanotechnology, 2015, 10, 972-979.	31.5	134
119	Facile synthesis of manganese carbonate quantum dots/Ni(HCO₃)₂â€“MnCO₃ composites as advanced cathode materials for high energy density asymmetric supercapacitors. Journal of Materials Chemistry A, 2015, 3, 22102-22117.	10.3	127
120	Emergence of room-temperature ferroelectricity at reduced dimensions. Science, 2015, 349, 1314-1317.	12.6	259
121	Highly Conducting, Transparent, and Flexible Indium Oxide Thin Film Prepared by Atomic Layer Deposition Using a New Liquid Precursor Et₂InN(SiMe₃)₂. ACS Applied Materials & Interfaces, 2014, 6, 17481-17488.	8.0	58
122	Upshift of Phase Transition Temperature in Nanostructured PbTiO₃ Thick Film for High Temperature Applications. ACS Applied Materials & Interfaces, 2014, 6, 11980-11987.	8.0	38
123	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
124	Role of additional PCBM layer between ZnO and photoactive layers in inverted bulk-heterojunction solar cells. Scientific Reports, 2014, 4, 4306.	3.3	83
125	Manufacture of a micro-sized piezoelectric ceramic structure using a sacrificial polymer mold insert. Microsystem Technologies, 2013, 19, 343-349.	2.0	16
126	Controlled shape with enhanced electrochemical performance of various ions doped Li2MnSiO4 cathode nanoparticles. Materials Letters, 2013, 105, 113-116.	2.6	18

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127	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
128	<scp><scp>ZrB</scp></scp>₂â€“<scp><scp>SiC</scp></scp> Nanoâ€Powder Mixture Prepared Using <scp><scp>ZrSi</scp></scp>₂ and Modified Spark Plasma Sintering. Journal of the American Ceramic Society, 2013, 96, 1051-1054.	3.8	16
129	Real-Time Observation of Crystal Evaporation in a Metal Phosphate at High Temperature. Journal of the American Chemical Society, 2013, 135, 7811-7814.	13.7	14
130	Direct Deposition of Highly Conductive Aluminum Thin Film on Substrate by Solution-Dipping Process. ACS Applied Materials & Interfaces, 2013, 5, 4581-4585.	8.0	20
131	Highly Conductive Aluminum Textile and Paper for Flexible and Wearable Electronics. Angewandte Chemie - International Edition, 2013, 52, 7718-7723.	13.8	101
132	The influence of CNTs on the thermoelectric properties of a CNT/Bi2Te3 composite. Carbon, 2013, 52, 541-549.	10.3	156
133	Microstructural development of cobalt ferrite ceramics and its influence on magnetic properties. Metals and Materials International, 2013, 19, 1209-1213.	3.4	20
134	Role of alkali carbonate and salt in topochemical synthesis of K1/2Na1/2NbO3 and NaNbO3 templates. Metals and Materials International, 2013, 19, 1283-1287.	3.4	2
135	Formation of Dendrite-Like Defect during PR-Mask Silicon Oxide Wet Etching Process and Its Removal Method. ECS Solid State Letters, 2013, 2, P97-P100.	1.4	0
136	Direct Observation of Cationic Ordering in Double Perovskite Sr₂FeReO₆ Crystals. Microscopy and Microanalysis, 2013, 19, 25-28.	0.4	7
137	Inorganic coatings for optimized non-viral transfection of stem cells. Scientific Reports, 2013, 3, 1567.	3.3	38
138	Control of Crystallinity in Nanocrystalline Silicon Prepared by High Working Pressure Plasma-Enhanced Chemical Vapor Deposition. Advances in Materials Science and Engineering, 2012, 2012, 1-6.	1.8	6
139	On-Chip Stochastic Resonance of Ion Channel Systems With Variable Internal Noise. IEEE Transactions on Nanobioscience, 2012, 11, 169-175.	3.3	4
140	Distinct Configurations of Antisite Defects in Ordered Metal Phosphates: Comparison betweenLiMnPO4andLiFePO4. Physical Review Letters, 2012, 108, 195501.	7.8	61
141	The effect of mineral coating morphology on mesenchymal stem cell attachment and expansion. Journal of Materials Chemistry, 2012, 22, 25288.	6.7	23
142	Gigantic Electrostrain in Duplex Structured Alkaline Niobates. Chemistry of Materials, 2012, 24, 3363-3369.	6.7	92
143	Bulk synthesis of ordered macroporous silica particles for superhydrophobic coatings. Journal of Colloid and Interface Science, 2012, 386, 88-98.	9.4	22
144	Cation Disordering by Rapid Crystal Growth in Olivine-Phosphate Nanocrystals. Nano Letters, 2012, 12, 3068-3073.	9.1	24

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145	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
146	Effect of excess Re on the magnetic properties of Sr2FeReO6 double-perovskite. Materials Letters, 2012, 75, 143-145.	2.6	5
147	Improved electrochemical properties of patterned Si film electrodes. Microelectronic Engineering, 2012, 89, 104-108.	2.4	11
148	Direct Determination of Cationic Disordering in Sodium Bismuth Titanate. Applied Microscopy, 2012, 42, 164-173.	1.4	3
149	Dependence of Milling Time on Electrochemical Properties of Nano Si Electrodes Prepared by Ball-Milling. Journal of Nanoscience and Nanotechnology, 2011, 11, 6262-6265.	0.9	6
150	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
151	Preparation of aluminumâ€“organic nanocomposite materials via wet chemical process. Advanced Powder Technology, 2011, 22, 608-612.	4.1	4
152	A Novel Solutionâ€Stamping Process for Preparation of a Highly Conductive Aluminum Thin Film. Advanced Materials, 2011, 23, 5524-5528.	21.0	53
153	Examination of selectivity of templates for the textured potassium sodium niobate ceramics. Advanced Powder Technology, 2011, 22, 383-389.	4.1	8
154	Effect of step free energy on delayed abnormal grain growth in a liquid phase-sintered BaTiO3 model system. Journal of the European Ceramic Society, 2011, 31, 755-762.	5.7	29
155	Influence of Sintering Atmosphere on Abnormal Grain Growth Behaviour in Potassium Sodium Niobate Ceramics Sintered at Low Temperature. Journal of the Korean Ceramic Society, 2011, 48, 641-647.	2.3	17
156	Direct Physical Imaging and Chemical Probing of LiFePO₄ for Lithiumâ€Ion Batteries. Advanced Functional Materials, 2010, 20, 4219-4232.	14.9	41
157	Sustained plasmid DNA release from dissolving mineral coatings. Acta Biomaterialia, 2010, 6, 3426-3435.	8.3	48
158	Large-scale synthesis of n-type gallium nitride nanowires using NiI2-decorated carbon nanotubes as a reactant. Carbon, 2010, 48, 2401-2408.	10.3	2
159	Shape memory effect-induced crack closure in Si thin film deposited on a Tiâ€“50.3Ni (at%) alloy substrate. Journal of Alloys and Compounds, 2010, 507, L8-L12.	5.5	5
160	Framework of Ubiquitous Sensor Network for the Crack Monitoring of Offshore Structures. , 2009, , .		1
161	Direct Determination of Dopant Site Selectivity in Ordered Perovskite CaCu₃Ti₄O₁₂ Polycrystals by Aberrationâ€Corrected STEM. Advanced Materials, 2009, 21, 885-889.	21.0	34
162	Orientationâ€Dependent Arrangement of Antisite Defects in Lithium Iron(II) Phosphate Crystals. Angewandte Chemie - International Edition, 2009, 48, 543-546.	13.8	73

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