

# Young-min Kim

## List of Publications by Year in descending order

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160  
papers

5,641  
citations

87888

38  
h-index

95266

68  
g-index

164  
all docs

164  
docs citations

164  
times ranked

8747  
citing authors

#	ARTICLE	IF	CITATIONS
1	Wafer-scale single-crystal hexagonal boron nitride film via self-collimated grain formation. <i>Science</i> , 2018, 362, 817-821.	12.6	336
2	Enhanced tunnelling electroresistance effect due to a ferroelectrically induced phase transition at a magnetic complex oxide interface. <i>Nature Materials</i> , 2013, 12, 397-402.	27.5	283
3	Probing oxygen vacancy concentration and homogeneity in solid-oxide fuel-cell cathode materials on the subunit-cell level. <i>Nature Materials</i> , 2012, 11, 888-894.	27.5	282
4	Multiphase transformation and Ostwald's rule of stages during crystallization of metal phosphate. <i>Nature Physics</i> , 2009, 5, 68-73.	16.7	268
5	Direct observation of ferroelectric field effect and vacancy-controlled screening at the BiFeO <sub>3</sub> /La <sub>x</sub> Sr <sub>1-x</sub> MnO <sub>3</sub> interface. <i>Nature Materials</i> , 2014, 13, 1019-1025.	27.5	218
6	Ferromagnetic Order at Room Temperature in Monolayer WSe <sub>2</sub> Semiconductor via Vanadium Dopant. <i>Advanced Science</i> , 2020, 7, 1903076.	11.2	148
7	Self-selective van der Waals heterostructures for large scale memory array. <i>Nature Communications</i> , 2019, 10, 3161.	12.8	139
8	Nanotwin-governed toughening mechanism in hierarchically structured biological materials. <i>Nature Communications</i> , 2016, 7, 10772.	12.8	127
9	Enhanced thermoelectric performance of PEDOT:PSS/PANI-CSA polymer multilayer structures. <i>Energy and Environmental Science</i> , 2016, 9, 2806-2811.	30.8	121
10	Reduced Graphene Oxide-Wrapped Nickel-Rich Cathode Materials for Lithium Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 18720-18729.	8.0	106
11	Active hydrogen evolution through lattice distortion in metallic MoTe <sub>2</sub> . <i>2D Materials</i> , 2017, 4, 025061.	4.4	103
12	Interplay of Octahedral Tilts and Polar Order in BiFeO <sub>3</sub> Films. <i>Advanced Materials</i> , 2013, 25, 2497-2504.	21.0	101
13	Influence of Minor Ions on the Stability and Hydration Rates of <sup>125</sup> Iodine Calcium Silicate. <i>Journal of the American Ceramic Society</i> , 2004, 87, 900-905.	3.8	92
14	Magnetic superlattices and their nanoscale phase transition effects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 3023-3027.	7.1	89
15	<i>In Situ</i> Observation of Oxygen Vacancy Dynamics and Ordering in the Epitaxial LaCoO <sub>3</sub> System. <i>ACS Nano</i> , 2017, 11, 6942-6949.	14.6	89
16	Atomic Observation of Filling Vacancies in Monolayer Transition Metal Sulfides by Chemically Sourced Sulfur Atoms. <i>Nano Letters</i> , 2018, 18, 4523-4530.	9.1	83
17	Enhanced electrocatalytic activity via phase transitions in strongly correlated SrRuO <sub>3</sub> thin films. <i>Energy and Environmental Science</i> , 2017, 10, 924-930.	30.8	82
18	Layer-controlled single-crystalline graphene film with stacking order via Cu-Si alloy formation. <i>Nature Nanotechnology</i> , 2020, 15, 861-867.	31.5	79

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19	Anisotropic Abnormal Grain Growth in TiO <sub>2</sub> /SiO <sub>2</sub> -Doped Alumina. Journal of the American Ceramic Society, 2000, 83, 2809-2812.	3.8	77
20	In situ TEM observation on the interface-type resistive switching by electrochemical redox reactions at a TiN/PCMO interface. Nanoscale, 2017, 9, 582-593.	5.6	76
21	Tunable Negative Differential Resistance in van der Waals Heterostructures at Room Temperature by Tailoring the Interface. ACS Nano, 2019, 13, 8193-8201.	14.6	69
22	Electric and Dielectric Properties of Nb-Doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Ceramics. Journal of the American Ceramic Society, 2007, 90, 2118-2121.	3.8	67
23	Monodispersed SnS nanoparticles anchored on carbon nanotubes for high-retention sodium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 7861-7869.	10.3	60
24	Flat-surface-assisted and self-regulated oxidation resistance of Cu(111). Nature, 2022, 603, 434-438.	27.8	59
25	Highly enhanced ferroelectricity in HfO <sub>2</sub> -based ferroelectric thin film by light ion bombardment. Science, 2022, 376, 731-738.	12.6	58
26	Epitaxial Single-Crystal Growth of Transition Metal Dichalcogenide Monolayers via the Atomic Sawtooth Au Surface. Advanced Materials, 2021, 33, e2006601.	21.0	55
27	Oxygen-Vacancy-Induced Polar Behavior in (LaFeO <sub>3</sub> ) <sub>2</sub> /(SrFeO <sub>3</sub> ) Superlattices. Nano Letters, 2014, 14, 2694-2701.	9.1	53
28	Ultralow switching voltage slope based on two-dimensional materials for integrated memory and neuromorphic applications. Nano Energy, 2020, 69, 104472.	16.0	50
29	Direct Observation of Inherent Atomic-Scale Defect Disorders responsible for High-Performance Ti <sub>1-x</sub> Hf <sub>x</sub> NiSn <sub>1-y</sub> Sb <sub>y</sub> Half-Heusler Thermoelectric Alloys. Advanced Materials, 2017, 29, 1702091.		
30	Selector-free resistive switching memory cell based on BiFeO <sub>3</sub> nano-island showing high resistance ratio and nonlinearity factor. Scientific Reports, 2016, 6, 23299.	3.3	45
31	Simple and efficient synthesis of nanograin structured single phase filled skutterudite for high thermoelectric performance. Acta Materialia, 2018, 142, 8-17.	7.9	44
32	Quantitative comparison of bright field and annular bright field imaging modes for characterization of oxygen octahedral tilts. Ultramicroscopy, 2017, 181, 1-7.	1.9	43
33	Triggered reversible phase transformation between layered and spinel structure in manganese-based layered compounds. Nature Communications, 2019, 10, 3385.	12.8	42
34	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
35	In-situ coalesced vacancies on MoSe <sub>2</sub> mimicking noble metal: Unprecedented Tafel reaction in hydrogen evolution. Nano Energy, 2019, 63, 103846.	16.0	41
36	Surface-spin magnetism of antiferromagnetic NiO in nanoparticle and bulk morphology. Journal of Physics Condensed Matter, 2009, 21, 215302.	1.8	40

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37	Direct imaging of the electron liquid at oxide interfaces. <i>Nature Nanotechnology</i> , 2018, 13, 198-203.	31.5	40
38	Inorganic Molecular Chain Nb <sub>2</sub> Se <sub>9</sub> : Synthesis of Bulk Crystal and One-Atom-Thick Level Exfoliation. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018, 12, 1800451.	2.4	40
39	Galvanically replaced artificial interfacial layer for highly reversible zinc metal anodes. <i>Applied Physics Reviews</i> , 2022, 9, .	11.3	40
40	Effect of Al Doping on the Electric and Dielectric Properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> . <i>Journal of the American Ceramic Society</i> , 2007, 90, 4009-4011.	3.8	38
41	Room Temperature Ferrimagnetism and Ferroelectricity in Strained, Thin Films of BiFe <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>3</sub> . <i>Advanced Functional Materials</i> , 2014, 24, 7478-7487.	14.9	38
42	Exploring Mesoscopic Physics of Vacancy-Ordered Systems through Atomic Scale Observations of Topological Defects. <i>Physical Review Letters</i> , 2012, 109, 065702.	7.8	36
43	Frenkel-Defect-Mediated Chemical Ordering Transition in a Li-Mn-Ni Spinel Oxide. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7963-7967.	13.8	36
44	Controlling surface oxygen vacancies in Fe-doped TiO <sub>2</sub> anatase nanoparticles for superior photocatalytic activities. <i>Applied Surface Science</i> , 2020, 507, 144916.	6.1	35
45	Direct growth of doping controlled monolayer WSe <sub>2</sub> by selenium-phosphorus substitution. <i>Nanoscale</i> , 2018, 10, 11397-11402.	5.6	34
46	Role of anionic vacancy for active hydrogen evolution in WTe <sub>2</sub> . <i>Applied Surface Science</i> , 2020, 515, 145972.	6.1	34
47	Non-oxidized bare copper nanoparticles with surface excess electrons in air. <i>Nature Nanotechnology</i> , 2022, 17, 285-291.	31.5	34
48	Atomic-scale symmetry breaking for out-of-plane piezoelectricity in two-dimensional transition metal dichalcogenides. <i>Nano Energy</i> , 2019, 58, 57-62.	16.0	33
49	Propagation Control of Octahedral Tilt in SrRuO <sub>3</sub> via Artificial Heterostructuring. <i>Advanced Science</i> , 2020, 7, 2001643.	11.2	33
50	Phase-Selective Disordered Anatase/Ordered Rutile Interface System for Visible-Light-Driven, Metal-Free CO <sub>2</sub> Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 35693-35701.	8.0	32
51	Phase Instability amid Dimensional Crossover in Artificial Oxide Crystal. <i>Physical Review Letters</i> , 2020, 124, 026401.	7.8	32
52	Synthesis of a one-dimensional atomic crystal of vanadium selenide (V <sub>2</sub> Se <sub>9</sub> ). <i>RSC Advances</i> , 2018, 8, 33980-33984.	3.6	31
53	Synthesis, structure and magnetic properties of $\hat{1}^2$ -MnO <sub>2</sub> nanorods. <i>Nanoscale Research Letters</i> , 2007, 2, 81-86.	5.7	30
54	Material structure, properties, and dynamics through scanning transmission electron microscopy. <i>Journal of Analytical Science and Technology</i> , 2018, 9, 11.	2.1	30

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55	Water- and acid-stable self-passivated dihafnium sulfide electride and its persistent electrocatalytic reaction. <i>Science Advances</i> , 2020, 6, eaba7416.	10.3	30
56	Tailoring Domain Morphology in Monolayer NbSe <sub>2</sub> and W <sub>2</sub> NbSe <sub>2</sub> Heterostructure. <i>ACS Nano</i> , 2020, 14, 8784-8792.	14.6	30
57	Synthesis of Ultrasmall Ferromagnetic Face-Centered Tetragonal FePt Graphite Core-Shell Nanocrystals. <i>Small</i> , 2008, 4, 1968-1971.	10.0	29
58	Deep Learning-Assisted Quantification of Atomic Dopants and Defects in 2D Materials. <i>Advanced Science</i> , 2021, 8, e2101099.	11.2	29
59	Pd-Doped Double-Walled Silica Nanotubes as Hydrogen Storage Material at Room Temperature. <i>Journal of Physical Chemistry C</i> , 2007, 111, 2679-2682.	3.1	28
60	Color of Copper/Copper Oxide. <i>Advanced Materials</i> , 2021, 33, e2007345.	21.0	28
61	Kinetic roughening of a 5° tilt grain boundary in SrTiO <sub>3</sub> . <i>Acta Materialia</i> , 2009, 57, 5264-5269.	7.9	27
62	Highly Durable Supportless Pt Hollow Spheres Designed for Enhanced Oxygen Transport in Cathode Catalyst Layers of Proton Exchange Membrane Fuel Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 27730-27739.	8.0	27
63	Cumulative defect structures for experimentally attainable low thermal conductivity in thermoelectric (Bi,Sb) <sub>2</sub> Te <sub>3</sub> alloys. <i>Materials Today Energy</i> , 2021, 21, 100795.	4.7	27
64	Multiferroic tunnel junctions and ferroelectric control of magnetic state at interface (invited). <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	26
65	Isolation of Nb <sub>2</sub> Se <sub>9</sub> Molecular Chain from Bulk One-Dimensional Crystal by Liquid Exfoliation. <i>Nanomaterials</i> , 2018, 8, 794.	4.1	26
66	On the origin of nanocrystals in the shear band in a quasicrystal forming bulk metallic glass Ti <sub>40</sub> Zr <sub>29</sub> Cu <sub>9</sub> Ni <sub>8</sub> Be <sub>14</sub> . <i>Scripta Materialia</i> , 2006, 55, 509-512.	5.2	25
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73	Interrelation between Structure and Magnetic Properties in $\text{La}_{0.5}\text{Sr}_{0.5}\text{CoO}_3$ . <i>Advanced Materials Interfaces</i> , 2014, 1, 1400203.	3.7	20
74	Implications of cation-disordered grain boundaries on the electrochemical performance of the $\text{LiNi}_{0.5}\text{Co}_{0.2}\text{Mn}_{0.3}\text{O}_2$ cathode material for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16111-16120.	10.3	20
75	Cooperative evolution of polar distortion and nonpolar rotation of oxygen octahedra in oxide heterostructures. <i>Science Advances</i> , 2021, 7, .	10.3	20
76	Unconventional interlayer exchange coupling via chiral phonons in synthetic magnetic oxide heterostructures. <i>Science Advances</i> , 2022, 8, eabm4005.	10.3	20
77	Escalating Ferromagnetic Order via Se Vacancies Near Vanadium in $\text{WSe}_2$ Monolayers. <i>Advanced Materials</i> , 2022, 34, e2106551.	21.0	20
78	Te Monolayer-Driven Spontaneous van der Waals Epitaxy of Two-dimensional Pnictogen Chalcogenide Film on Sapphire. <i>Nano Letters</i> , 2017, 17, 6140-6145.	9.1	19
79	Highly fluidic liquid at homointerface generates grain-boundary dislocation arrays for high-performance bulk thermoelectrics. <i>Acta Materialia</i> , 2018, 159, 266-275.	7.9	19
80	Substitutional Vanadium Sulfide Nanodispersed in $\text{MoS}_2$ Film for Scalable Catalyst. <i>Advanced Science</i> , 2021, 8, e2003709.	11.2	19
81	High-Performance Bismuth Antimony Telluride Thermoelectric Membrane on Curved and Flexible Supports. <i>ACS Energy Letters</i> , 2021, 6, 2378-2385.	17.4	19
82	Nano-patterning on multilayer $\text{MoS}_2$ via block copolymer lithography for highly sensitive and responsive phototransistors. <i>Communications Materials</i> , 2021, 2, .	6.9	19
83	Regulating Te Vacancies through Dopant Balancing via Excess Ag Enables Rebounding Power Factor and High Thermoelectric Performance in $\text{p-type PbTe}$ . <i>Advanced Science</i> , 2021, 8, e2100895.	11.2	18
84	Influence of defects and nanoscale strain on the photovoltaic properties of $\text{CdS/CdSe}$ nanocomposite co-sensitized $\text{ZnO}$ nanowire solar cells. <i>Electrochimica Acta</i> , 2016, 220, 500-510.	5.2	17
85	Wafer-Scale van der Waals Heterostructures with Ultraclean Interfaces via the Aid of Viscoelastic Polymer. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 1579-1586.	8.0	17
86	Selective patterning of out-of-plane piezoelectricity in $\text{MoTe}_2$ via focused ion beam. <i>Nano Energy</i> , 2021, 79, 105451.	16.0	17
87	Multiple Magnetic Phases in Van Der Waals $\text{Mn-Doped SnS}_2$ Semiconductor. <i>Advanced Functional Materials</i> , 2021, 31, 2102560.	14.9	17
88	Doping-Mediated Lattice Engineering of Monolayer $\text{ReS}_2$ for Modulating In-Plane Anisotropy of Optical and Transport Properties. <i>ACS Nano</i> , 2021, 15, 13770-13780.	14.6	17
89	Impact of Local Separation on the Structural and Electrochemical Behaviors in $\text{Li}_2\text{MoO}_3/\text{LiCrO}_2$ Disordered Rock-Salt Cathode Material. <i>Advanced Energy Materials</i> , 2021, 11, 2002958.	19.5	16
90	Evidence of itinerant holes for long-range magnetic order in the tungsten diselenide semiconductor with vanadium dopants. <i>Physical Review B</i> , 2021, 103, .	3.2	16

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91	Large-Area MoS <sub>2</sub> Nanosheets with Triangular Nanopore Arrays as Active and Robust Electrocatalysts for Hydrogen Evolution. <i>Journal of Physical Chemistry C</i> , 2022, 126, 9696-9703.	3.1	16
92	Critical role of atomic-scale defect disorders for high-performance nanostructured half-Heusler thermoelectric alloys and their thermal stability. <i>Acta Materialia</i> , 2019, 180, 97-104.	7.9	15
93	In Situ Observation of the Effect of Accelerating Voltage on Electron Beam Damage of Layered Cathode Materials for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 44293-44299.	8.0	15
94	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
95	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
96	Highly concentrated single-chain atomic crystal LiMo <sub>3</sub> Se <sub>3</sub> solution using ion-exchange chromatography. <i>Chemical Communications</i> , 2018, 54, 12503-12506.	4.1	14
97	Ferroelectric Polarization Rotation in Order-Disorder-Type LiNbO <sub>3</sub> Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 41471-41478.	8.0	13
98	Effect of manganese dopants on defects, nano-strain, and photovoltaic performance of Mn-CdS/CdSe nanocomposite-sensitized ZnO nanowire solar cells. <i>Composites Science and Technology</i> , 2019, 179, 79-87.	7.8	13
99	Hierarchically Structured Core-Shell Design of a Lithium Transition-Metal Oxide Cathode Material for Excellent Electrochemical Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 4017-4027.	8.0	13
100	Atomic-scale chemical mapping of copper dopants in Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> thermoelectric alloy. <i>Materials Today Physics</i> , 2021, 17, 100347.	6.0	13
101	Hidden role of intrinsic Sb-rich nano-precipitates for high-performance Bi <sub>2</sub> -Sb Te <sub>3</sub> thermoelectric alloys. <i>Acta Materialia</i> , 2021, 215, 117058.	7.9	13
102	Spin-Selective Hole-Exciton Coupling in a V-Doped WSe <sub>2</sub> Ferromagnetic Semiconductor at Room Temperature. <i>ACS Nano</i> , 2021, 15, 20267-20277.	14.6	13
103	Study of alinite cement hydration by impedance spectroscopy. <i>Cement and Concrete Research</i> , 2003, 33, 299-304.	11.0	12
104	Kinetic roughening of a ZnO grain boundary. <i>Applied Physics Letters</i> , 2010, 96, 191906.	3.3	12
105	Elastic softening of sapphire by Si diffusion for dislocation-free GaN. <i>Acta Materialia</i> , 2014, 66, 97-104.	7.9	12
106	Direct observation of an electrically degenerate interface layer in a GaN/sapphire heterostructure. <i>Nanoscale</i> , 2019, 11, 8281-8292.	5.6	12
107	Probing One-Dimensional Oxygen Vacancy Channels Driven by Cation-Anion Double Ordering in Perovskites. <i>Nano Letters</i> , 2020, 20, 8353-8359.	9.1	12
108	A single-atom vanadium-doped 2D semiconductor platform for attomolar-level molecular sensing. <i>Journal of Materials Chemistry A</i> , 2022, 10, 13298-13304.	10.3	12

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109	Formation characteristics and photoluminescence of Ge nanocrystals in HfO <sub>2</sub> . Journal of Applied Physics, 2009, 105, .	2.5	11
110	Quadruple-junction lattice coherency and phase separation in a binary-phase system. Nature Communications, 2015, 6, 8252.	12.8	11
111	Unusually High Ion Conductivity in Large-Scale Patternable Two-Dimensional MoS <sub>2</sub> Film. ACS Nano, 2021, 15, 12267-12275.	14.6	11
112	Electron-beam-induced transition aluminas from aluminum trihydroxide. Scripta Materialia, 2008, 59, 1022-1025.	5.2	10
113	Utilization of electron-beam irradiation under atomic-scale chemical mapping for evaluating the cycling performance of lithium transition metal oxide cathodes. Journal of Materials Chemistry A, 2021, 9, 2429-2437.	10.3	10
114	Modulating the Ferroelectricity of Hafnium Zirconium Oxide Ultrathin Films via Interface Engineering to Control the Oxygen Vacancy Distribution. Advanced Materials Interfaces, 2022, 9, .	3.7	10
115	Self-assembled growth and luminescence of crystalline Si/SiO <sub>2</sub> core-shell nanowires. Nanotechnology, 2010, 21, 205601.	2.6	9
116	Unexpected orbital magnetism in Bi-rich Bi <sub>2</sub> Se <sub>3</sub> nanoplatelets. NPC Asia Materials, 2016, 8, e271-e271.	7.9	9
117	(111)-oriented Sn-doped BaTiO <sub>3</sub> epitaxial thin films for ultrahigh energy density capacitors. Ceramics International, 2021, 47, 26856-26862.	4.8	9
118	Site-selective doping mechanisms for the enhanced photocatalytic activity of tin oxide nanoparticles. Applied Catalysis B: Environmental, 2022, 305, 121083.	20.2	9
119	Depth resolved lattice-charge coupling in epitaxial BiFeO <sub>3</sub> thin film. Scientific Reports, 2016, 6, 38724.	3.3	8
120	Flexoelectric healing of intrinsically more conductive nanochannels in NdNiO <sub>3</sub> thin films. Applied Surface Science, 2019, 497, 143727.	6.1	8
121	Chemically Stable Low-Dimensional Electrides in Transition Metal-Rich Monochalcogenides: Theoretical and Experimental Explorations. Journal of the American Chemical Society, 2022, 144, 4496-4506.	13.7	8
122	Sequential Growth of Vertical Transition-Metal Dichalcogenide Heterostructures on Rollable Aluminum Foil. ACS Nano, 2022, 16, 8851-8859.	14.6	8
123	Synthesis and Hydration Characteristics of Alinite Cement. Journal of the American Ceramic Society, 2002, 85, 1941-1946.	3.8	7
124	Stand-off dislocations at a twist grain boundary in gold as seen via high-resolution transmission electron microscopy. Physical Review B, 2013, 87, .	3.2	7
125	Strain-induced indium clustering in non-polar a-plane InGaN quantum wells. Acta Materialia, 2018, 145, 109-122.	7.9	7
126	Atomic-scale identification of invisible cation vacancies at an oxide homointerface. Materials Today Physics, 2021, 16, 100302.	6.0	7



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127	Crystallographic Orientation Analysis of Nanocrystalline Tungsten Thin Film Using TEM Precession Electron Diffraction and SEM Transmission Kikuchi Diffraction. <i>Microscopy and Microanalysis</i> , 2021, 27, 237-249.	0.4	7
128	Isomorphic substitution and the hydration behavior of alinite cement. <i>Journal of the European Ceramic Society</i> , 2003, 23, 2067-2073.	5.7	6
129	Towards spin-polarized two-dimensional electron gas at a surface of an antiferromagnetic insulating oxide. <i>Physical Review B</i> , 2016, 94, .	3.2	6
130	Improved polaronic transport under a strong Mott-Hubbard interaction in Cu-substituted NiO. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 853-858.	6.0	6
131	Signature of surface energy dependence of partial dislocation slip in a gold nanometer-sized protrusion. <i>Scripta Materialia</i> , 2011, 64, 1125-1128.	5.2	5
132	Migration mechanism of a GaN bicrystalline grain boundary as a model system. <i>Scientific Reports</i> , 2016, 6, 26493.	3.3	5
133	Confined polaronic transport in (LaFeO <sub>3</sub> ) <sub>n</sub> /(SrFeO <sub>3</sub> ) <sub>1</sub> superlattices. <i>APL Materials</i> , 2019, 7, .	5.1	5
134	Tuning of aluminum concentration distribution in high nickel cathode particles for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152677.	5.5	5
135	Lifshitz Transition and Non-Fermi Liquid Behavior in Highly Doped Semimetals. <i>Advanced Materials</i> , 2021, 33, 2005742.	21.0	5
136	Strain-driven autonomous control of cation distribution for artificial ferroelectrics. <i>Science Advances</i> , 2021, 7, .	10.3	5
137	Toward non-gas-permeable hBN film growth on smooth Fe surface. <i>2D Materials</i> , 2021, 8, 034003.	4.4	5
138	Practical Approaches to Mitigation of Specimen Charging in High-Resolution Transmission Electron Microscopy. <i>Journal of Analytical Science and Technology</i> , 2010, 1, 134-140.	2.1	5
139	Formation of crystalline silicon in kaolinite by electron beam irradiation and in situ heating in the HVEM. <i>Journal of Electron Microscopy</i> , 2007, 56, 153-155.	0.9	4
140	Contribution of the Subsurface to Electrocatalytic Activity in Atomically Precise La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> Heterostructures. <i>Small</i> , 2021, 17, e2103632.	10.0	4
141	Hydrogen evolution reaction catalyst with high catalytic activity by interplay between organic molecules and transition metal dichalcogenide monolayers. <i>Materials Today Energy</i> , 2022, 25, 100976.	4.7	4
142	Hybrid Deep Learning Crystallographic Mapping of Polymorphic Phases in Polycrystalline Hf <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> Thin Films. <i>Small</i> , 2022, 18, e2107620.	10.0	4
143	Evolution of microstructure characteristics during the electron-beam-induced phase transition of aluminum trihydroxide. <i>Scripta Materialia</i> , 2009, 61, 572-575.	5.2	3
144	Stabilization of a Ga-adlayer structure with the zincblende stacking sequence in the GaN(000 $\bar{1}$ ) surface at the nanoscale. <i>Nanoscale</i> , 2017, 9, 2596-2602.	5.6	3

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145	Quantitative Evaluations of a High-Voltage Multiscan CCD Camera. Journal of Electron Microscopy, 2007, 56, 217-224.	0.9	2
146	Sculpting fabrication of nanocrater catalysts and exclusive control of wall numbers and diameters in carbon nanotubes. Journal of Materials Chemistry, 2011, 21, 15175.	6.7	2
147	Change in equilibrium position of misfit dislocations at the GaN/sapphire interface by Si-ion implantation into sapphire. I. Microstructural characterization. AIP Advances, 2015, 5, 077180.	1.3	2
148	Probing structural changes during ductile fracture in metallic glasses via in situ straining inside a MeV transmission electron microscope. Intermetallics, 2018, 102, 94-100.	3.9	2
149	Anomalous Electronic and Protonic Conductivity of 2D Titanium Oxide and Low-Temperature Power Generation Using Its Protonic Conduction. Advanced Materials Interfaces, 2021, 8, 2101156.	3.7	2
150	Optimal Synthesis and Application of a Si-Ti-Al Ternary Alloy as an Anode Material for Lithium-Ion Batteries. Materials, 2021, 14, 6912.	2.9	2
151	Characterization of crystallographic properties of GaN thin film using automated crystal orientation mapping with TEM. Metals and Materials International, 2012, 18, 997-1001.	3.4	1
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