

# Do Kyung Kim

## List of Publications by Year in descending order

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261  
papers

11,136  
citations

26630

56  
h-index

37204

96  
g-index

265  
all docs

265  
docs citations

265  
times ranked

13338  
citing authors

#	ARTICLE	IF	CITATIONS
1	Asymmetric separator integrated with ferroelectric-BaTiO <sub>3</sub> and mesoporous-CNT for the reutilization of soluble polysulfide in lithium-sulfur batteries. <i>Journal of Alloys and Compounds</i> , 2022, 893, 162272.	5.5	25
2	Regulating lithium metal interface using seed-coating layer for high-power batteries. <i>Chemical Engineering Journal</i> , 2022, 433, 134380.	12.7	12
3	Polysulfide regulation vs anode modification: Perspectives on commercializing lithium-sulfur batteries. <i>APL Materials</i> , 2022, 10, .	5.1	3
4	A mechanistic review of lithiophilic materials: resolving lithium dendrites and advancing lithium metal-based batteries. <i>Materials Chemistry Frontiers</i> , 2021, 5, 6294-6314.	5.9	35
5	Functional and structural insight into lignocellulosic fibers for high-areal-capacity lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 18260-18271.	10.3	13
6	Advances of 2D MoS <sub>2</sub> for High-Energy Lithium Metal Batteries. <i>Frontiers in Energy Research</i> , 2021, 9, .	2.3	15
7	Self-reinforced and high-thermal conductivity silicon nitride by tailoring $\lambda$ - $\lambda^2$ phase ratio with pressureless multi-step sintering. <i>Ceramics International</i> , 2021, 47, 13057-13064.	4.8	17
8	Prussian Blue Analogous Na <sub>2</sub> Ni <sub>0.33</sub> Co <sub>0.33</sub> [Fe(CN) <sub>6</sub> ] Nanoparticles as Cathode Material for Non-Aqueous Na-Ion Batteries. <i>ECS Journal of Solid State Science and Technology</i> , 2021, 10, 061012.	1.8	1
9	Designing High Energy Sodium-Ion Battery Cathodes by Utilizing P2/O3 Biphasic Structure and Lithium Honeycomb Ordering. <i>Small</i> , 2021, 17, e2100146.	10.0	30
10	Improving Room Temperature Ionic Conductivity of Na <sub>3-x</sub> K <sub>x</sub> Zr <sub>2</sub> Si <sub>2</sub> PO <sub>12</sub> Solid-Electrolytes: Effects of Potassium Substitution. <i>Inorganic Chemistry</i> , 2021, 60, 11147-11153.	4.0	9
11	Melamine-assisted synthesis of vanadium nitride quantum dots: Application for full-cell lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2021, 888, 161522.	5.5	7
12	Non-resonant power-efficient directional Nd:YAG ceramic laser using a scattering cavity. <i>Nature Communications</i> , 2021, 12, 8.	12.8	52
13	Eliciting Specific Electrochemical Reaction Behavior by Rational Design of a Red Phosphorus Electrode for Sodium-Ion Batteries. <i>Nanomaterials</i> , 2021, 11, 3053.	4.1	2
14	Vertically aligned carbon nanotubular structure for guiding uniform lithium deposition via capillary pressure as stable metallic lithium anodes. <i>Energy Storage Materials</i> , 2020, 24, 602-609.	18.0	34
15	Wear behavior and microstructural characterization of translucent multilayer zirconia. <i>Dental Materials</i> , 2020, 36, 1407-1417.	3.5	25
16	An iron-doped NASICON type sodium ion battery cathode for enhanced sodium storage performance and its full cell applications. <i>Journal of Materials Chemistry A</i> , 2020, 8, 20436-20445.	10.3	48
17	CNT-Coated Quartz Woven Fabric Electrodes for Robust Lithium-ion Structural Batteries. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8622.	2.5	2
18	Ice-Templated Free-Standing Reduced Graphene Oxide for Dendrite-Free Lithium Metal Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 11053-11060.	5.1	18

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19	Insight into the scavenger effect of LiF on extinction of a carboxylate group for mid-infrared transparent Y <sub>2</sub> O <sub>3</sub> ~MgO nanocomposite. <i>Scripta Materialia</i> , 2020, 187, 37-42.	5.2	12
20	Research Trends and Applications of Y <sub>2</sub> O <sub>3</sub> -MgO Polycrystalline Nanocomposite for Infrared Transparent Ceramics. <i>Ceramist</i> , 2020, 23, 272-285.	0.1	0
21	Polycrystalline 1-D TiN-based free-standing composite electrode for high performance of Li-polysulfide cells. <i>Applied Surface Science</i> , 2019, 495, 143544.	6.1	6
22	Electrochemical properties of Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> perovskite as an anode material for sodium ion batteries. <i>Journal of Materials Science</i> , 2019, 54, 13236-13246.	3.7	19
23	Microstructural freezing of highly NIR transparent Y <sub>2</sub> O <sub>3</sub> -MgO nanocomposite via pressure-assisted two-step sintering. <i>Journal of the European Ceramic Society</i> , 2019, 39, 4957-4964.	5.7	20
24	A study on cobalt substitution in sodium manganese mixed-anion phosphates as positive electrode materials for Na-ion batteries. <i>Journal of Power Sources</i> , 2019, 444, 227274.	7.8	19
25	Mie resonator method for reliable permittivity measurement of loss-less ceramics in microwave frequency at high temperature. <i>Journal of Applied Physics</i> , 2019, 126, 094101.	2.5	0
26	Natural-Wood-Derived Lignosulfonate Ionomer as Multifunctional Binder for High-Performance Lithium~Sulfur Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 17580-17586.	6.7	43
27	Understanding the Origin of the Ultrahigh Rate Performance of a SiO <sub>2</sub> -Modified LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> Cathode for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 7263-7271.	5.1	53
28	Surface-to-core structure evolution of gradient BaTiO <sub>3</sub> -Ba <sub>1-x</sub> Sr <sub>x</sub> TiO <sub>3</sub> core-shell nanoparticles. <i>Applied Surface Science</i> , 2019, 487, 278-284.	6.1	7
29	New multi-layered zirconias: Composition, microstructure and translucency. <i>Dental Materials</i> , 2019, 35, 797-806.	3.5	140
30	Two-step sintering behavior of titanium-doped Y <sub>2</sub> O <sub>3</sub> ceramics with monodispersed sub-micrometer powder. <i>Ceramics International</i> , 2019, 45, 510-515.	4.8	18
31	Tin sulfide modified separator as an efficient polysulfide trapper for stable cycling performance in Li~S batteries. <i>Nanoscale Horizons</i> , 2019, 4, 214-222.	8.0	92
32	Readiness Level of Sodium~Ion Battery Technology: A Materials Review. <i>Advanced Sustainable Systems</i> , 2018, 2, 1700153.	5.3	135
33	Understanding the role of oxygen ion (O <sup>2+</sup> ) activity in 1-D crystal growth of rutile TiO <sub>2</sub> in molten salts. <i>CrystEngComm</i> , 2018, 20, 487-495.	2.6	11
34	Perspective on Carbon Fiber Woven Fabric Electrodes for Structural Batteries. <i>Fibers and Polymers</i> , 2018, 19, 599-606.	2.1	8
35	Evaluation of oxidation behaviors of HfC-SiC ultra-high temperature ceramics at above 2500~°C via oxyacetylene torch. <i>Ceramics International</i> , 2018, 44, 8505-8513.	4.8	19
36	A Robust Approach for Efficient Sodium Storage of GeS <sub>2</sub> Hybrid Anode by Electrochemically Driven Amorphization. <i>Advanced Energy Materials</i> , 2018, 8, 1703499.	19.5	39

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37	Enhanced output performance of a lead-free nanocomposite generator using BaTiO <sub>3</sub> nanoparticles and nanowires filler. Applied Surface Science, 2018, 429, 164-170.	6.1	45
38	Freeze-casted TiO <sub>2</sub> photoelectrodes with hierarchical porous structures for efficient light harvesting ability in dye-sensitized solar cells. Applied Surface Science, 2018, 449, 405-411.	6.1	3
39	Enhancing the Sequential Conversion-Alloying Reaction of Mixed Sn-S Hybrid Anode for Efficient Sodium Storage by a Carbon Healed Graphene Oxide. Small, 2018, 14, 1702605.	10.0	25
40	Suppressing Polysulfide Dissolution via Cohesive Forces by Interwoven Carbon Nanofibers for High-Areal-Capacity Lithium-Sulfur Batteries. Nano Letters, 2018, 18, 475-481.	9.1	137
41	A highly-aligned lamellar structure of ice-templated LiFePO <sub>4</sub> cathode for enhanced rate capability. Materials and Design, 2018, 139, 89-95.	7.0	17
42	New insight into Na intercalation with Li substitution on alkali site and high performance of O <sub>3</sub> -type layered cathode material for sodium ion batteries. Journal of Materials Chemistry A, 2018, 6, 22731-22740.	10.3	21
43	A novel approach of an infrared transparent Er <sub>2</sub> O <sub>3</sub> -MgO nanocomposite for eye-safe laser ceramics. Journal of Materials Chemistry C, 2018, 6, 11096-11103.	5.5	24
44	Realizing High-Performance Li-Polysulfide Full Cells by using a Lithium Bis(trifluoromethanesulfonyl)imide Salt Electrolyte for Stable Cyclability. ChemSusChem, 2018, 11, 3402-3409.	6.8	8
45	Extreme fast charging characteristics of zirconia modified LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> cathode for lithium ion batteries. Journal of Power Sources, 2018, 396, 774-781.	7.8	63
46	Transparent Ceramics for Visible/IR Windows: Processing, Materials and Characterization. Korean Journal of Materials Research, 2018, 28, 551-563.	0.2	8
47	Conversion-Alloying Anode Materials for Na-ion Batteries: Recent Progress, Challenges, and Perspective for the Future. Journal of the Korean Ceramic Society, 2018, 55, 307-324.	2.3	24
48	Interfacial microstructure of diffusion-bonded SiC and Re with Ti interlayer. Journal of Alloys and Compounds, 2017, 701, 316-320.	5.5	17
49	Effects of calcination atmosphere on monodispersed spherical particles for highly optical transparent yttria ceramics. Journal of the American Ceramic Society, 2017, 100, 1876-1884.	3.8	9
50	Effective Suppression of Polysulfide Dissolution by Uniformly Transfer-Printed Conducting Polymer on Sulfur Cathode for Li-S Batteries. Journal of the Electrochemical Society, 2017, 164, A6417-A6421.	2.9	26
51	Lead-free BaTiO <sub>3</sub> Nanowire Arrays-based Piezoelectric Energy Harvester. MRS Advances, 2017, 2, 3415-3420.	0.9	11
52	A robust approach for highly transparent Y <sub>2</sub> O <sub>3</sub> ceramics by stabilizing oxygen defects. Scripta Materialia, 2017, 137, 1-4.	5.2	21
53	A high rate and stable electrode consisting of a Na <sub>3</sub> V <sub>2</sub> O <sub>4</sub> (PO <sub>4</sub> ) <sub>2</sub> F <sub>3-2x</sub> -rGO composite with a cellulose binder for sodium-ion batteries. RSC Advances, 2017, 7, 21820-21826.	3.6	34
54	Influence of carbon polymorphism towards improved sodium storage properties of Na <sub>3</sub> V <sub>2</sub> O <sub>4</sub> (PO <sub>4</sub> ) <sub>2</sub> F <sub>3-2x</sub> . Journal of Solid State Electrochemistry, 2017, 21, 223-232.	2.5	25

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55	Catecholamine-Functionalized Reduced Graphene Oxide: A Scalable Carbon Host for Stable Cycling in Lithium-Sulfur Batteries. <i>Electrochimica Acta</i> , 2017, 246, 451-458.	5.2	20
56	Electrochemical properties of BiFeO <sub>3</sub> nanoparticles: Anode material for sodium-ion battery application. <i>Materials Science in Semiconductor Processing</i> , 2017, 68, 165-171.	4.0	29
57	Influence of microstructure control on optical and mechanical properties of infrared transparent Y <sub>2</sub> O <sub>3</sub> -MgO nanocomposite. <i>Journal of the European Ceramic Society</i> , 2017, 37, 4902-4911.	5.7	63
58	Pushing the Energy Output and Cyclability of Sodium Hybrid Capacitors at High Power to New Limits. <i>Advanced Energy Materials</i> , 2017, 7, 1602654.	19.5	105
59	Facile hydrothermal synthesis of BaZr <sub>x</sub> Ti <sub>1-x</sub> O <sub>3</sub> nanoparticles and their application to a lead-free nanocomposite generator. <i>RSC Advances</i> , 2017, 7, 2851-2856.	3.6	44
60	Piezoelectric energy harvesting from a PMN-PT single nanowire. <i>RSC Advances</i> , 2017, 7, 260-265.	3.6	65
61	Encapsulation of Lithium Vanadium Phosphate in Reduced Graphene Oxide for a Lithium-ion Battery Cathode with Stable Elevated Temperature Performance. <i>Electrochimica Acta</i> , 2017, 253, 208-217.	5.2	14
62	A Flexible Glass Fiber Based Freestanding Composite Electrode for High-Performance Lithium Polysulfide Batteries. <i>Advanced Sustainable Systems</i> , 2017, 1, 1700083.	5.3	15
63	Unveiling the synergistic effect of polysulfide additive and MnO <sub>2</sub> hollow spheres in evolving a stable cyclic performance in Li-S batteries. <i>Chemical Communications</i> , 2017, 53, 8782-8785.	4.1	26
64	Self-Powered Wireless Sensor Node Enabled by an Aerosol-Deposited PZT Flexible Energy Harvester. <i>Advanced Energy Materials</i> , 2016, 6, 1600237.	19.5	179
65	Microstructural evolution of Si <sub>3</sub> N <sub>4</sub> ceramics from starting powders with different $\alpha$ -to- $\beta$ ratios. <i>Journal of the Ceramic Society of Japan</i> , 2016, 124, 800-807.	1.1	12
66	Formation and Accumulation of Intragranular Pores in the Hydrothermally Synthesized Barium Titanate Nanoparticles. <i>Journal of the American Ceramic Society</i> , 2016, 99, 3802-3808.	3.8	25
67	Broadband giant-refractive-index material based on mesoscopic space-filling curves. <i>Nature Communications</i> , 2016, 7, 12661.	12.8	51
68	Hydrothermal Synthesis and Dielectric Properties of Ba <sub>1-x</sub> Sr <sub>x</sub> TiO <sub>3</sub> Nanoparticles with Enhanced Uniformity. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 11652-11657.	0.9	5
69	Enhanced dielectric permittivity of BaTiO <sub>3</sub> /epoxy resin composites by particle alignment. <i>Ceramics International</i> , 2016, 42, 7141-7147.	4.8	63
70	Crack and Shock Propagation Through the Interlayer in Soda Lime Glass Under Detonation Loading. <i>International Journal of Applied Glass Science</i> , 2016, 7, 104-117.	2.0	3
71	Effect of Electrolyte Additives on NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> -C//Na <sub>3</sub> V <sub>2</sub> O <sub>2X</sub> (PO <sub>4</sub> ) <sub>2</sub> Aqueous Rechargeable Sodium Ion Battery Performance. <i>Journal of the Electrochemical Society</i> , 2016, 163, A1484-A1492.	2.9	47
72	Comparative study of oxide and non-oxide additives in high thermal conductive and high strength Si <sub>3</sub> N <sub>4</sub> ceramics. <i>Ceramics International</i> , 2016, 42, 17466-17471.	4.8	51

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73	Co <sub>3</sub> O <sub>4</sub> negative electrode material for rechargeable sodium ion batteries: An investigation of conversion reaction mechanism and morphology-performances correlations. Journal of Power Sources, 2016, 332, 42-50.	7.8	86
74	A flexible energy harvester based on a lead-free and piezoelectric BCTZ nanoparticle-polymer composite. Nanoscale, 2016, 8, 17632-17638.	5.6	114
75	Self-Powered Devices: Self-Powered Wireless Sensor Node Enabled by an Aerosol-Deposited PZT Flexible Energy Harvester (Adv. Energy Mater. 13/2016). Advanced Energy Materials, 2016, 6, .	19.5	4
76	Na <sub>3</sub> V <sub>2</sub> O <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F-MWCNT nanocomposites as a stable and high rate cathode for aqueous and non-aqueous sodium-ion batteries. Journal of Power Sources, 2016, 324, 421-427.	7.8	91
77	The Na <sub>2</sub> FeP <sub>2</sub> O <sub>7</sub> -carbon nanotubes composite as high rate cathode material for sodium ion batteries. Journal of Power Sources, 2016, 302, 61-69.	7.8	78
78	Comparative Study of Heat Treatment on $\text{TiO}_2/\text{MoO}_3$ Nanorods as an Electrode Material for Lithium Ion Batteries. Nanoscience and Nanotechnology Letters, 2016, 8, 109-112.	0.4	1
79	Interfacial Microstructure of Diffusion-Bonded W-25Re/Ti/Graphite Joint and Its High-Temperature Stability. Korean Journal of Materials Research, 2016, 26, 751-756.	0.2	2
80	In Situ X-Ray Diffraction Studies on Structural Changes of a P2 Layered Material during Electrochemical Desodiation/Sodiation. Advanced Functional Materials, 2015, 25, 3227-3237.	14.9	113
81	Hierarchical Structure of Porous Silicon Nitride Ceramics with Aligned Pore Channels Prepared by Ice-Templating and Nitridation of Silicon Powder. International Journal of Applied Ceramic Technology, 2015, 12, 921-931.	2.1	18
82	Local Fracture Toughness of Si <sub>3</sub> N <sub>4</sub> Ceramics Measured using Single-Edge Notched Microcantilever Beam Specimens. Journal of the American Ceramic Society, 2015, 98, 965-971.	3.8	29
83	Na <sub>3</sub> V <sub>2</sub> O <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F: a stable and high-voltage cathode material for aqueous sodium-ion batteries with high energy density. Journal of Materials Chemistry A, 2015, 3, 6271-6275.	10.3	111
84	A high capacity MnFe <sub>2</sub> O <sub>4</sub> /rGO nanocomposite for Li and Na-ion battery applications. RSC Advances, 2015, 5, 63304-63310.	3.6	40
85	Enhanced electrochemical performance of a crosslinked polyaniline-coated graphene oxide-sulfur composite for rechargeable lithium-sulfur batteries. Journal of Power Sources, 2015, 294, 386-392.	7.8	65
86	Mechanical properties of SiC composite materials fabricated by the Si-Cr alloy melt-infiltration method. Journal of Composite Materials, 2015, 49, 3057-3066.	2.4	6
87	High performance of MoS <sub>2</sub> microflowers with a water-based binder as an anode for Na-ion batteries. RSC Advances, 2015, 5, 79845-79851.	3.6	39
88	Enhanced ferromagnetic properties and high temperature dielectric anomalies in Bi <sub>0.9</sub> Ca <sub>0.05</sub> Sm <sub>0.05</sub> FeO <sub>3</sub> prepared by hydrothermal method. Materials Research Bulletin, 2015, 62, 5-10.	5.2	14
89	High-Temperature Fracture Strength of a CVD-SiC Coating Layer for TRISO Nuclear Fuel Particles by a Micro-Tensile Test. Journal of the Korean Ceramic Society, 2015, 52, 441-448.	2.3	4
90	The Effects of Propionic Acid on Nano-Sized BaTiO <sub>3</sub> Particles Synthesized by a Hydrothermal Method. Journal of Nanoscience and Nanotechnology, 2014, 14, 8056-8060.	0.9	1

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91	Optimal design of organic-inorganic hybrid tandem solar cell based on Si:H and organic photovoltaics for high efficiency. <i>Micro and Nano Letters</i> , 2014, 9, 881-883.	1.3	11
92	Impedance Spectroscopy of CaF <sub>2</sub> -doped AlN Ceramics. <i>Journal of the American Ceramic Society</i> , 2014, 97, 805-810.	3.8	19
93	Large-area metal foams with highly ordered sub-micrometer-scale pores for potential applications in energy areas. <i>Materials Letters</i> , 2014, 129, 174-177.	2.6	23
94	Na <sub>2</sub> FeP <sub>2</sub> O <sub>7</sub> as a positive electrode material for rechargeable aqueous sodium-ion batteries. <i>RSC Advances</i> , 2014, 4, 9799.	3.6	86
95	Enhanced properties of porous CoFe <sub>2</sub> O <sub>4</sub> -reduced graphene oxide composites with alginate binders for Li-ion battery applications. <i>New Journal of Chemistry</i> , 2014, 38, 3654-3661.	2.8	69
96	An Aqueous Sodium Ion Hybrid Battery Incorporating an Organic Compound and a Prussian Blue Derivative. <i>Advanced Energy Materials</i> , 2014, 4, 1400133.	19.5	106
97	Processing and Characterization of Aluminum Nitride Ceramics for High Thermal Conductivity. <i>Advanced Engineering Materials</i> , 2014, 16, 655-669.	3.5	59
98	Oxidation behavior of ZrB <sub>2</sub> -xSiC composites at 1500°C under different oxygen partial pressures. <i>Ceramics International</i> , 2014, 40, 15303-15311.	4.8	27
99	High capacity and low cost spinel Fe <sub>3</sub> O <sub>4</sub> for the Na-ion battery negative electrode materials. <i>Electrochimica Acta</i> , 2014, 146, 503-510.	5.2	134
100	Ultrathin SnO <sub>2</sub> layer for efficient carrier collection in dye-sensitized solar cells. <i>Thin Solid Films</i> , 2014, 556, 503-508.	1.8	24
101	DNA metallization for high performance Li-ion battery anodes. <i>Nano Energy</i> , 2014, 8, 17-24.	16.0	8
102	High-strength AlN ceramics by low-temperature sintering with CaZrO <sub>3</sub> -Y <sub>2</sub> O <sub>3</sub> co-additives. <i>Journal of the European Ceramic Society</i> , 2014, 34, 3627-3633.	5.7	40
103	Removal of Micrometer Size Morphological Defects and Enhancement of Ultraviolet Emission by Thermal Treatment of Ga-Doped ZnO Nanostructures. <i>PLoS ONE</i> , 2014, 9, e86418.	2.5	10
104	Flexural Strength and Dielectric Properties of in-situ Si <sub>3</sub> N <sub>4</sub> -SiO <sub>2</sub> -BN Composite Ceramics. <i>Journal of the Korean Ceramic Society</i> , 2014, 51, 386-391.	2.3	5
105	Impedance analysis of Na <sub>0.44</sub> MnO <sub>2</sub> positive electrode for reversible sodium batteries in organic electrolyte. <i>Electrochimica Acta</i> , 2013, 108, 575-582.	5.2	66
106	Electrochemical Sodium Ion Intercalation Properties of Na <sub>2.7</sub> Ru <sub>4</sub> O <sub>9</sub> in Nonaqueous and Aqueous Electrolytes. <i>Journal of the Electrochemical Society</i> , 2013, 160, A897-A900.	2.9	15
107	Graphene-supported Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> as a high rate cathode material for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11350.	10.3	248
108	A high power density electrode with ultralow carbon via direct growth of particles on graphene sheets. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6183.	10.3	20



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109	One-dimensional WO <sub>3</sub> nanorods as photoelectrodes for dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2013, 547, 113-117.	5.5	65
110	Wear-mechanical properties of filler-added liquid silicon infiltration C/C-SiC composites. <i>Materials &amp; Design</i> , 2013, 44, 107-113.	5.1	32
111	Synthesis, structure, and electrochemical Li-ion intercalation of LiRu <sub>2</sub> O <sub>4</sub> with CaFe <sub>2</sub> O <sub>4</sub> -type structure. <i>Journal of Power Sources</i> , 2013, 233, 285-289.	7.8	8
112	Diffusion behavior of sodium ions in Na <sub>0.44</sub> MnO <sub>2</sub> in aqueous and non-aqueous electrolytes. <i>Journal of Power Sources</i> , 2013, 244, 758-763.	7.8	158
113	TEM Study of the High-Temperature Oxidation Behavior of Hot-Pressed ZrB <sub>2</sub> -SiC Composites. <i>Journal of the American Ceramic Society</i> , 2013, 96, 1570-1576.	3.8	15
114	Encapsulated Monoclinic Sulfur for Stable Cycling of Li-S Rechargeable Batteries. <i>Advanced Materials</i> , 2013, 25, 6547-6553.	21.0	330
115	Synthesis and Compaction Behavior of Monodispersed 3Y-ZrO <sub>2</sub> Spherical Agglomerates. <i>Journal of the Korean Ceramic Society</i> , 2013, 50, 434-438.	2.3	1
116	Growth of Al <sub>2</sub> O <sub>3</sub> /Al Composite by Directed Metal Oxidation of Al Surface Doped with Sodium Source. <i>Journal of the Korean Ceramic Society</i> , 2013, 50, 439-445.	2.3	1
117	Ab Initio Study of the Sodium Intercalation and Intermediate Phases in Na <sub>0.44</sub> MnO <sub>2</sub> for Sodium-Ion Battery. <i>Chemistry of Materials</i> , 2012, 24, 1205-1211.	6.7	223
118	Synthesis and scintillation characterization of nanocrystalline Lu <sub>2</sub> O <sub>3</sub> (Eu) powder for high-resolution X-ray imaging detectors. <i>Journal of Instrumentation</i> , 2012, 7, C03048-C03048.	1.2	7
119	Influence of Ammonia on Properties of Nanocrystalline Barium Titanate Particles Prepared by a Hydrothermal Method. <i>Journal of the American Ceramic Society</i> , 2012, 95, 2248-2253.	3.8	22
120	Cobalt-free composite cathode for SOFCs: Brownmillerite-type calcium ferrite and gadolinium-doped ceria. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 17217-17224.	7.1	29
121	Flexible Nanocomposite Generator Made of BaTiO <sub>3</sub> Nanoparticles and Graphitic Carbons. <i>Advanced Materials</i> , 2012, 24, 2999-3004.	21.0	601
122	Three-dimensional nanonetworks for giant stretchability in dielectrics and conductors. <i>Nature Communications</i> , 2012, 3, 916.	12.8	292
123	Synthesis and Size Control of Tetragonal Barium Titanate Nanopowders by Facile Solvothermal Method. <i>Journal of the American Ceramic Society</i> , 2012, 95, 2429-2434.	3.8	112
124	Carbon coating by high-energy milling and electrochemical properties of LiMnPO <sub>4</sub> obtained in polyol process. <i>Ceramics International</i> , 2012, 38, S471-S475.	4.8	30
125	Electrochemical properties of GdBaCo <sub>2</sub> /3Fe <sub>2</sub> /3Cu <sub>2</sub> /3O <sub>5</sub> -CGO composite cathodes for solid oxide fuel cell. <i>Ceramics International</i> , 2012, 38, S493-S496.	4.8	8
126	Synthesis and Photocatalytic Properties of SnO <sub>2</sub> -Mixed and Sn-Doped TiO <sub>2</sub> Nanoparticles. <i>Korean Journal of Materials Research</i> , 2012, 22, 352-357-352-357.	0.2	9



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