Ungyu Paik

List of Publications by Year
in descending order

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277	17,207	22153	16650
papers	citations	59 h-index	123 g-index

278	278	278	20943
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stretchable batteries with self-similar serpentine interconnects and integrated wireless recharging systems. Nature Communications, 2013, 4, 1543.	12.8	1,169
2	A soft, wearable microfluidic device for the capture, storage, and colorimetric sensing of sweat. Science Translational Medicine, 2016, 8, 366ra165.	12.4	933
3	Carbon coated porous nickel phosphides nanoplates for highly efficient oxygen evolution reaction. Energy and Environmental Science, 2016, 9, 1246-1250.	30.8	839
4	Arrays of Sealed Silicon Nanotubes As Anodes for Lithium Ion Batteries. Nano Letters, 2010, 10, 1710-1716.	9.1	804
5	GaAs photovoltaics and optoelectronics using releasable multilayer epitaxial assemblies. Nature, 2010, 465, 329-333.	27.8	524
6	Formation of Niâ€“Coâ€“MoS₂ Nanoboxes with Enhanced Electrocatalytic Activity for Hydrogen Evolution. Advanced Materials, 2016, 28, 9006-9011.	21.0	511
7	Structure-designed synthesis of FeS₂@C yolkâ€“shell nanoboxes as a high-performance anode for sodium-ion batteries. Energy and Environmental Science, 2017, 10, 1576-1580.	30.8	475
8	Sb@C coaxial nanotubes as a superior long-life and high-rate anode for sodium ion batteries. Energy and Environmental Science, 2016, 9, 2314-2318.	30.8	414
9	Soft network composite materials with deterministic and bio-inspired designs. Nature Communications, 2015, 6, 6566.	12.8	392
10	Metal Organic Framework Derived Materials: Progress and Prospects for the Energy Conversion and Storage. Advanced Materials, 2018, 30, e1705146.	21.0	376
11	Battery-free, stretchable optoelectronic systems for wireless optical characterization of the skin. Science Advances, 2016, 2, e1600418.	10.3	336
12	Advantageous crystallineâ€“amorphous phase boundary for enhanced electrochemical water oxidation. Energy and Environmental Science, 2019, 12, 2443-2454.	30.8	315
13	Nickel cobalt phosphides quasi-hollow nanocubes as an efficient electrocatalyst for hydrogen evolution in alkaline solution. Chemical Communications, 2016, 52, 1633-1636.	4.1	271
14	Self-Supported Nickel Iron Layered Double Hydroxide-Nickel Selenide Electrocatalyst for Superior Water Splitting Activity. ACS Applied Materials & Interfaces, 2017, 9, 33766-33774.	8.0	257
15	Miniaturized Batteryâ€Free Wireless Systems for Wearable Pulse Oximetry. Advanced Functional Materials, 2017, 27, 1604373.	14.9	248
16	Nitridated TiO2 hollow nanofibers as an anode material for high power lithium ion batteries. Energy and Environmental Science, 2011, 4, 4532.	30.8	242
17	Si/Ge Double-Layered Nanotube Array as a Lithium Ion Battery Anode. ACS Nano, 2012, 6, 303-309.	14.6	225
18	Epidermal Electronics with Advanced Capabilities in Near-Field Communication. Small, 2015, 11, 906-912.	10.0	224

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19	Nanoscale Patterns of Oligonucleotides Formed by Electrohydrodynamic Jet Printing with Applications in Biosensing and Nanomaterials Assembly. Nano Letters, 2008, 8, 4210-4216.	9.1	205
20	Effect of Carboxymethyl Cellulose on Aqueous Processing of Natural Graphite Negative Electrodes and their Electrochemical Performance for Lithium Batteries. Journal of the Electrochemical Society, 2005, 152, A1763.	2.9	191
21	Dominant Factors Governing the Rate Capability of a TiO₂ Nanotube Anode for High Power Lithium Ion Batteries. ACS Nano, 2012, 6, 8308-8315.	14.6	184
22	Aqueous processing of natural graphite particulates for lithium-ion battery anodes and their electrochemical performance. Journal of Power Sources, 2005, 147, 249-255.	7.8	181
23	Boosting Electrochemical Water Oxidation with Metal Hydroxide Carbonate Templated Prussian Blue Analogues. Angewandte Chemie - International Edition, 2018, 57, 1241-1245.	13.8	180
24	TiO₂ as an active or supplemental material for lithium batteries. Journal of Materials Chemistry A, 2016, 4, 14-31.	10.3	166
25	Etchingâ€inâ€aâ€Box: A Novel Strategy to Synthesize Unique Yolkâ€Shelled Fe₃O₄@Carbon with an Ultralong Cycling Life for Lithium Storage. Advanced Energy Materials, 2016, 6, 1502318.	19.5	158
26	Porosityâ€Controlled TiNb₂O₇ Microspheres with Partial Nitridation as A Practical Negative Electrode for Highâ€Power Lithiumâ€Ion Batteries. Advanced Energy Materials, 2015, 5, 1401945.	19.5	153
27	Miniaturized Flexible Electronic Systems with Wireless Power and Nearâ€Field Communication Capabilities. Advanced Functional Materials, 2015, 25, 4761-4767.	14.9	148
28	Inâ€Plane Deformation Mechanics for Highly Stretchable Electronics. Advanced Materials, 2017, 29, 1604989.	21.0	141
29	Soft, thin skin-mounted power management systems and their use in wireless thermography. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6131-6136.	7.1	139
30	Formation of Co₃O₄ microframes from MOFs with enhanced electrochemical performance for lithium storage and water oxidation. Chemical Communications, 2016, 52, 6269-6272.	4.1	137
31	Vertical Pillar-Superlattice Array and Graphene Hybrid Light Emitting Diodes. Nano Letters, 2010, 10, 2783-2788.	9.1	129
32	Refractive index engineering of transparent ZrO2â€“polydimethylsiloxane nanocomposites. Journal of Materials Chemistry, 2008, 18, 1751.	6.7	123
33	Nanoscale, Electrified Liquid Jets for High-Resolution Printing of Charge. Nano Letters, 2010, 10, 584-591.	9.1	120
34	Amorphous Nickelâ€“Iron Borophosphate for a Robust and Efficient Oxygen Evolution Reaction. Advanced Energy Materials, 2021, 11, 2100624.	19.5	120
35	Effect of poly(acrylic acid) on adhesion strength and electrochemical performance of natural graphite negative electrode for lithium-ion batteries. Journal of Power Sources, 2006, 161, 612-616.	7.8	110
36	Copper Nitride Nanowires Printed Li with Stable Cycling for Li Metal Batteries in Carbonate Electrolytes. Advanced Materials, 2020, 32, e1905573.	21.0	105

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37	A Ge inverse opal with porous walls as an anode for lithium ion batteries. Energy and Environmental Science, 2012, 5, 9028.	30.8	104
38	N-doped graphene layers encapsulated NiFe alloy nanoparticles derived from MOFs with superior electrochemical performance for oxygen evolution reaction. Scientific Reports, 2016, 6, 34004.	3.3	104
39	Synergistic Ultrathin Functional Polymer-Coated Carbon Nanotube Interlayer for High Performance Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2016, 8, 20092-20099.	8.0	102
40	Quantum Dot Based Heterostructures for Unassisted Photoelectrochemical Hydrogen Generation. Advanced Energy Materials, 2013, 3, 176-182.	19.5	101
41	Synergistic Metalâ€“Metal Oxide Nanoparticles Supported Electrocatalytic Graphene for Improved Photoelectrochemical Glucose Oxidation. ACS Applied Materials & Interfaces, 2014, 6, 4864-4871.	8.0	100
42	Facile Synthesis of Ultrathin ZnO Nanotubes with Well-Organized Hexagonal Nanowalls and Sealed Layouts: Applications for Lithium Ion Battery Anodes. Journal of Physical Chemistry C, 2013, 117, 1037-1043.	3.1	95
43	Sb-based electrode materials for rechargeable batteries. Journal of Materials Chemistry A, 2018, 6, 8159-8193.	10.3	95
44	Porous TiNb₂O₇ nanofibers decorated with conductive Ti_{1â^'x}Nb_xN bumps as a high power anode material for Li-ion batteries. Journal of Materials Chemistry A, 2015, 3, 8590-8596.	10.3	90
45	Synergistic protective effect of a BN-carbon separator for highly stable lithium sulfur batteries. NPG Asia Materials, 2017, 9, e375-e375.	7.9	85
46	Exploring Graphene Quantum Dots/TiO2 interface in photoelectrochemical reactions: Solar to fuel conversion. Electrochimica Acta, 2016, 187, 249-255.	5.2	79
47	Electrochemical Properties of Siâ€Ge Heterostructures as an Anode Material for Lithium Ion Batteries. Advanced Functional Materials, 2014, 24, 1458-1464.	14.9	78
48	The effect of electrostatic repulsive forces on the stability of BaTiO3 particles suspended in non-aqueous media. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1998, 135, 77-88.	4.7	74
49	Dispersantâ€Binder Interactions in Aqueous Silicon Nitride Suspensions. Journal of the American Ceramic Society, 1999, 82, 833-840.	3.8	73
50	High Open Circuit Voltage Quantum Dot Sensitized Solar Cells Manufactured with ZnO Nanowire Arrays and Si/ZnO Branched Hierarchical Structures. Journal of Physical Chemistry Letters, 2011, 2, 1984-1990.	4.6	71
51	Facile Synthesis of Free-Standing Silicon Membranes with Three-Dimensional Nanoarchitecture for Anodes of Lithium Ion Batteries. Nano Letters, 2013, 13, 3340-3346.	9.1	69
52	Graphene as an Interfacial Layer for Improving Cycling Performance of Si Nanowires in Lithium-Ion Batteries. Nano Letters, 2015, 15, 6658-6664.	9.1	69
53	Dispersion properties of aqueous-based LiFePO4 pastes and their electrochemical performance for lithium batteries. Ultramicroscopy, 2008, 108, 1256-1259.	1.9	68
54	Dispersion Stability of Single-Walled Carbon Nanotubes Using Nafion in Bisolvent. Journal of Physical Chemistry C, 2007, 111, 2477-2483.	3.1	66

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55	3D Cross-Linked Nanoweb Architecture of Binder-Free TiO₂ Electrodes for Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2013, 5, 11525-11529.	8.0	64
56	Facile ex situ formation of a LiFâ€“polymer composite layer as an artificial SEI layer on Li metal by simple roll-press processing for carbonate electrolyte-based Li metal batteries. Journal of Materials Chemistry A, 2020, 8, 17229-17237.	10.3	63
57	Synthesis of hierarchical porous TiNb₂O₇ nanotubes with controllable porosity and their application in high power Li-ion batteries. Journal of Materials Chemistry A, 2017, 5, 6958-6965.	10.3	62
58	One-Dimensional Silicon Nanostructures for Li Ion Batteries. Journal of Physical Chemistry Letters, 2014, 5, 720-731.	4.6	61
59	Patterned oxide semiconductor by electrohydrodynamic jet printing for transparent thin film transistors. Applied Physics Letters, 2012, 100, .	3.3	60
60	Electrospun Li4Ti5O12 nanofibers sheathed with conductive TiN/TiO N layer asÂanÂanode material for high power Li-ion batteries. Journal of Power Sources, 2013, 244, 726-730.	7.8	60
61	Mechanical characterization and thermal behavior of HVOF-sprayed bond coat in thermal barrier coatings (TBCs). Surface and Coatings Technology, 2006, 200, 4355-4362.	4.8	59
62	SnO2 encapsulated TiO2 hollow nanofibers as anode material for lithium ion batteries. Electrochemistry Communications, 2012, 22, 81-84.	4.7	58
63	Hydroxylated carbon nanotube enhanced sulfur cathodes for improved electrochemical performance of lithiumâ€“sulfur batteries. Chemical Communications, 2015, 51, 13682-13685.	4.1	55
64	Effect of particle dispersion on microstructure and strength of reaction-bonded silicon carbide. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 334, 267-274.	5.6	53
65	Influence of Solids Concentration on the Isoelectric Point of Aqueous Barium Titanate. Journal of the American Ceramic Society, 2000, 83, 2381-2384.	3.8	51
66	Aqueous Processing of Sintered Reactionâ€Bonded Silicon Nitride: I, Dispersion Properties of Silicon Powder. Journal of the American Ceramic Society, 1997, 80, 1781-1788.	3.8	50
67	Thermal and mechanical properties of sintered bodies and EB-PVD layers of Y2O3 added Gd2Zr2O7 ceramics for thermal barrier coatings. Journal of Alloys and Compounds, 2010, 507, 448-455.	5.5	50
68	LiCl-LiI molten salt electrolyte with bismuth-lead positive electrode for liquid metal battery. Journal of Power Sources, 2018, 377, 87-92.	7.8	50
69	Three dimensional-TiO2 nanotube array photoanode architectures assembled on a thin hollow nanofibrous backbone and their performance in quantum dot-sensitized solar cells. Chemical Communications, 2013, 49, 2810.	4.1	48
70	Concentrator photovoltaic module architectures with capabilities for capture and conversion of full global solar radiation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E8210-E8218.	7.1	48
71	Current Status of Selfâ€Supported Catalysts for Robust and Efficient Water Splitting for Commercial Electrolyzer. ChemCatChem, 2019, 11, 5898-5912.	3.7	47
72	3D-interconnected Nanoporous RGO-CNT Structure for Supercapacitors Application. Electrochimica Acta, 2014, 125, 536-542.	5.2	46

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73	Effect of particle size on gelcasting process and green properties in alumina. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 337, 212-221.	5.6	45
74	Cross-linked poly(acrylic acid)-carboxymethyl cellulose and styrene-butadiene rubber as an efficient binder system and its physicochemical effects on a high energy density graphite anode for Li-ion batteries. Electrochemistry Communications, 2017, 77, 103-106.	4.7	45
75	Surface Polarity and Shapeâ€Controlled Synthesis of ZnO Nanostructures on GaN Thin Films Based on Catalystâ€Free Metalorganic Vapor Phase Epitaxy. Advanced Materials, 2008, 20, 4464-4469.	21.0	44
76	Role of the Surface Chemistry of Ceria Surfaces on Silicate Adsorption. ACS Applied Materials & Interfaces, 2014, 6, 7388-7394.	8.0	44
77	Internal stresses in BaTiO3/Ni MLCCs. Journal of the European Ceramic Society, 2003, 23, 1427-1434.	5.7	43
78	Electrospun Sn-doped LiTi₂(PO₄)₃/C nanofibers for ultra-fast charging and discharging. Journal of Materials Chemistry A, 2015, 3, 10395-10402.	10.3	43
79	Controlled swelling behavior and stable cycling of silicon/graphite granular composite for high energy density in lithium ion batteries. Journal of Power Sources, 2020, 457, 228021.	7.8	43
80	Effects of precursor pH and sintering temperature on synthesizing and morphology of solâ€“gel processed mullite. Ceramics International, 2002, 28, 935-940.	4.8	42
81	Effects of Abrasive Morphology and Surfactant Concentration on Polishing Rate of Ceria Slurry. Japanese Journal of Applied Physics, 2003, 42, 1150-1153.	1.5	42
82	TiO2 nanotube branched tree on a carbon nanofiber nanostructure as an anode for high energy and power lithium ion batteries. Nano Research, 2014, 7, 491-501.	10.4	42
83	Encapsulation of S/SWNT with PANI Web for Enhanced Rate and Cycle Performance in Lithium Sulfur Batteries. Scientific Reports, 2015, 5, 8946.	3.3	42
84	Partially reduced SnO 2 nanoparticles anchored on carbon nanofibers for high performance sodium-ion batteries. Electrochemistry Communications, 2016, 72, 91-95.	4.7	42
85	Microstructural control of new intercalation layered titanoniobates with large and reversible d-spacing for easy Na ⁺ ion uptake. Science Advances, 2017, 3, e1700509.	10.3	42
86	Thermal cycling behavior and interfacial stability in thick thermal barrier coatings. Surface and Coatings Technology, 2010, 205, 1250-1255.	4.8	41
87	General synthesis of vanadium-based mixed metal oxides hollow nanofibers for high performance lithium-ion batteries. Journal of Power Sources, 2016, 329, 190-196.	7.8	40
88	The effect of carboxymethyl cellulose swelling on the stability of natural graphite particulates in an aqueous medium for lithium ion battery anodes. Journal of Electroceramics, 2006, 17, 657-660.	2.0	39
89	WO₃/W:BiVO₄/BiVO₄ graded photoabsorber electrode for enhanced photoelectrocatalytic solar light driven water oxidation. Physical Chemistry Chemical Physics, 2017, 19, 4648-4655.	2.8	38
90	Influence of the electrokinetic behaviors of abrasive ceria particles and the deposited plasma-enhanced tetraethylorthosilicate and chemically vapor deposited Si₃N₄ films in an aqueous medium on chemical mechanical planarization for shallow trench isolation. Journal of Materials Research, 2003, 18, 2163-2169.	2.6	37

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91	Hydrogen treated, cap-opened Si nanotubes array anode for high power lithium ion battery. Journal of Power Sources, 2013, 244, 463-468.	7.8	37
92	Role of the oxidation state of cerium on the ceria surfaces for silicate adsorption. Applied Surface Science, 2016, 389, 311-315.	6.1	37
93	Synergetic control of band gap and structural transformation for optimizing TiO 2 photocatalysts. Applied Catalysis B: Environmental, 2017, 210, 513-521.	20.2	37
94	Comparison of multiwalled carbon nanotubes and carbon black as percolative paths in aqueous-based natural graphite negative electrodes with high-rate capability for lithium-ion batteries. Journal of Power Sources, 2008, 184, 308-311.	7.8	36
95	Increase in Ce³⁺Concentration of Ceria Nanoparticles for High Removal Rate of SiO₂in Chemical Mechanical Planarization. ECS Journal of Solid State Science and Technology, 2017, 6, P681-P685.	1.8	36
96	Epitaxial Growth of Nanostructured Li₂Se on Lithium Metal for All Solidâ€State Batteries. Advanced Science, 2021, 8, e2004204.	11.2	36
97	Exfoliation of Single-Walled Carbon Nanotubes Induced by the Structural Effect of Perylene Derivatives and Their Optoelectronic Properties. Journal of Physical Chemistry C, 2008, 112, 15267-15273.	3.1	35
98	Effect of Carboxymethyl Cellulose on Aqueous Processing of LiFePO[sub 4] Cathodes and Their Electrochemical Performance. Electrochemical and Solid-State Letters, 2008, 11, A175.	2.2	35
99	Silicon nanowires with a carbon nanofiber branch as lithium-ion anode material. Journal of Materials Chemistry, 2011, 21, 12619.	6.7	35
100	Two-dimensional Nafion nanoweb anion-shield for improved electrochemical performances of lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2016, 4, 11203-11206.	10.3	35
101	In Situ Cross-linked Carboxymethyl Cellulose-Polyethylene Glycol Binder for Improving the Long-Term Cycle Life of Silicon Anodes in Li Ion Batteries. Industrial & Engineering Chemistry Research, 2019, 58, 8123-8130.	3.7	35
102	Hot-corrosion resistance and phase stability of Yb2O3â€“Gd2O3â€“Y2O3 costabilized zirconia-based thermal barrier coatings against Na2SO4Â+ÂV2O5 molten salts. Surface and Coatings Technology, 2020, 400, 126197.	4.8	34
103	Strategic dispersion of carbon black and its application to ink-jet-printed lithium cobalt oxide electrodes for lithium ion batteries. Journal of Power Sources, 2011, 196, 6449-6455.	7.8	33
104	Surfactant Effect on Oxide-to-Nitride Removal Selectivity of Nano-abrasive Ceria Slurry for Chemical Mechanical Polishing. Japanese Journal of Applied Physics, 2003, 42, 5420-5425.	1.5	32
105	Microstructure design and mechanical properties of thermal barrier coatings with layered top and bond coats. Surface and Coatings Technology, 2010, 205, 1229-1235.	4.8	31
106	Germanium coating boosts lithium uptake in Si nanotube battery anodes. Physical Chemistry Chemical Physics, 2014, 16, 17930.	2.8	31
107	Three-dimensional Gd-doped TiO₂ fibrous photoelectrodes for efficient visible light-driven photocatalytic performance. RSC Advances, 2014, 4, 11750-11757.	3.6	31
108	Solâ€“gel nanoglues for an organic binder-free TiO2 nanofiber anode for lithium ion batteries. Nanoscale, 2013, 5, 3230.	5.6	30

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109	Multi-objective optimization of tungsten CMP slurry for advanced semiconductor manufacturing using a response surface methodology. Materials and Design, 2017, 117, 131-138.	7.0	30
110	Interface engineering of yttrium stabilized zirconia/gadolinium doped ceria bi-layer electrolyte solid oxide fuel cell for boosting electrochemical performance. Journal of Power Sources, 2019, 435, 226776.	7.8	30
111	Facile fabrication strategy of highly dense gadolinium-doped ceria/yttria-stabilized zirconia bilayer electrolyte via cold isostatic pressing for low temperature solid oxide fuel cells. Journal of Power Sources, 2019, 415, 112-118.	7.8	30
112	Core-Shell Tubular Nanostructured Electrode of Hollow Carbon Nanofiber/Manganese Oxide for Electrochemical Capacitors. Electrochimica Acta, 2014, 141, 39-44.	5.2	29
113	Effect of bond coat nature and thickness on mechanical characteristic and contact damage of zirconia-based thermal barrier coatings. Surface and Coatings Technology, 2006, 201, 3483-3490.	4.8	28
114	Gold nanoparticle-composite nanofibers for enzymatic electrochemical sensing of hydrogen peroxide. Analyst, The, 2013, 138, 5025.	3.5	28
115	Microstructure control of the graphite anode with a high density for Li ion batteries with high energy density. Electrochimica Acta, 2015, 166, 367-371.	5.2	28
116	Thermal Fatigue Behavior of Air-Plasma Sprayed Thermal Barrier Coating with Bond Coat Species in Cyclic Thermal Exposure. Materials, 2013, 6, 3387-3403.	2.9	27
117	Glass-like thermal conductivity in mass-disordered high-entropy (Y,Yb)2(Ti, Zr, Hf)2O7 for thermal barrier material. Materials and Design, 2021, 210, 110059.	7.0	27
118	Dispersant-Ethyl Cellulose Binder Interactions at the Ni Particle-Dihydroterpineol Interface. Journal of the American Ceramic Society, 2006, 89, 3050-3055.	3.8	26
119	Effect of post heat treatment on thermal durability of thermal barrier coatings in thermal fatigue tests. Surface and Coatings Technology, 2013, 215, 46-51.	4.8	26
120	Enhanced photocatalytic performance at a Au/Nâ€“TiO₂hollow nanowire array by a combination of light scattering and reduced recombination. Physical Chemistry Chemical Physics, 2014, 16, 17748-17755.	2.8	26
121	Evaluation of Surface Acid and Base Properties of LiFePO₄in Aqueous Medium with pH and Its Electrochemical Properties. Journal of Physical Chemistry C, 2010, 114, 4466-4472.	3.1	25
122	Microstructure design for blended feedstock and its thermal durability in lanthanum zirconate based thermal barrier coatings. Surface and Coatings Technology, 2016, 308, 40-49.	4.8	25
123	Size-dependent interactions of silica nanoparticles with a flat silica surface. Journal of Colloid and Interface Science, 2016, 483, 177-184.	9.4	25
124	Boosting Electrochemical Water Oxidation with Metal Hydroxide Carbonate Templated Prussian Blue Analogues. Angewandte Chemie, 2018, 130, 1255-1259.	2.0	25
125	Influence of Barium Dissolution on the Electrokinetic Properties of Colloidal BaTiO₃ in an Aqueous Medium. Journal of the American Ceramic Society, 2003, 86, 1662-1668.	3.8	24
126	Effect of thermal fatigue on mechanical characteristics and contact damage of zirconia-based thermal barrier coatings with HVOF-sprayed bond coat. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 429, 173-180.	5.6	24

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127	Effect of Alkaline Agent in Colloidal Silica Slurry for Polycrystalline Silicon Chemical Mechanical Polishing. Japanese Journal of Applied Physics, 2007, 46, 5089-5094.	1.5	24
128	Toward High Rate Performance Solidâ€State Batteries. Advanced Energy Materials, 2022, 12, .	19.5	24
129	Influence of Physical Characteristics of Ceria Particles on Polishing Rate of Chemical Mechanical Planarization for Shallow Trench Isolation. Japanese Journal of Applied Physics, 2004, 43, 7427-7433.	1.5	23
130	Effect of Molecular Weight of Surfactant in Nano Ceria Slurry on Shallow Trench Isolation Chemical Mechanical Polishing (CMP). Japanese Journal of Applied Physics, 2004, 43, L1060-L1063.	1.5	23
131	Two-dimensional nanohybridization of gold nanorods and polystyrene colloids. Applied Physics Letters, 2009, 94, 084104.	3.3	23
132	Lithium salt of carboxymethyl cellulose as an aqueous binder for thick graphite electrode in lithium ion batteries. Macromolecular Research, 2015, 23, 719-725.	2.4	23
133	Effect of the molecular weight of poly(ethylene glycol) on the plasticization of green sheets composed of ultrafine BaTiO3 particles and poly(vinyl butyral). Materials Research Bulletin, 2003, 38, 1021-1032.	5.2	22
134	Consolidation of aqueous concentrated silicon nitride suspension by direct coagulation casting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 342, 93-100.	5.6	22
135	Nitridated Siâ€“Tiâ€“Ni alloy as an anode for Li rechargeable batteries. Journal of Power Sources, 2014, 253, 282-286.	7.8	22
136	Effects of chemical structure and molecular weight of plasticizer on physical properties of green tape in BaTiO3/PVB system. Journal of the European Ceramic Society, 2004, 24, 733-738.	5.7	21
137	Stable artificial solid electrolyte interphase with lithium selenide and lithium chloride for dendrite-free lithium metal anodes. Journal of Power Sources, 2021, 506, 230158.	7.8	21
138	Si nanoparticles embedded in carbon nanofiber sheathed with Li6PS5Cl as an anode material for all-solid-state batteries. Journal of Power Sources, 2021, 510, 230425.	7.8	21
139	Effects of the Physical Characteristics of Cerium Oxide on Plasma-Enhanced Tetraethylorthosiliate Removal Rate of Chemical Mechanical Polishing for Shallow Trench Isolation. Japanese Journal of Applied Physics, 2003, 42, 1227-1230.	1.5	20
140	Atomic force microscopy study of the role of molecular weight of poly(acrylic acid) in chemical mechanical planarization for shallow trench isolation. Journal of Materials Research, 2006, 21, 473-479.	2.6	20
141	Crystalline structure of ceria particles controlled by the oxygen partial pressure and STI CMP performances. Ultramicroscopy, 2008, 108, 1292-1296.	1.9	20
142	Electrospun porous lithium manganese phosphateâ€“carbon nanofibers as a cathode material for lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 17713-17720.	10.3	20
143	Ce³⁺-enriched coreâ€“shell ceria nanoparticles for silicate adsorption. Journal of Materials Research, 2017, 32, 2829-2836.	2.6	20
144	Lithiophilic surface treatment of metal- and metallic compound-based frameworks by gas nitriding for lithium metal batteries. Journal of Power Sources, 2020, 477, 228776.	7.8	20

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145	Dissolution and reprecipitation of barium at the particulate BaTiO3â€“aqueous solution interface. Materials Research Bulletin, 2002, 37, 1623-1631.	5.2	19
146	Acidâ€“base interaction between carbon black and polyurethane molecules with different amine values: Dispersion stability of carbon black suspension for use in lithium ion battery cathodes. Electrochimica Acta, 2013, 111, 946-951.	5.2	19
147	Ionâ€Conducting Channel Implanted Anode Matrix for Allâ€Solidâ€State Batteries with High Rate Capability and Stable Anode/Solid Electrolyte Interface. Advanced Energy Materials, 2021, 11, 2102045.	19.5	19
148	Effects of PVB on the gelation behavior of BaTiO3-based dielectric particles and glass suspension. Journal of the European Ceramic Society, 2003, 23, 2315-2322.	5.7	18
149	Effect of Alkaline Agent on Polishing Rate of Nitrogen-Doped Ge[sub 2]Sb[sub 2]Te[sub 5] Film in Chemical Mechanical Polishing. Electrochemical and Solid-State Letters, 2008, 11, H288.	2.2	18
150	Microstructure and mechanical properties of zirconia-based thermal barrier coatings with starting powder morphology. Surface and Coatings Technology, 2009, 204, 802-806.	4.8	18
151	Synthesis of ZnO nanotubes and nanotube-nanorod hybrid hexagonal networks using a hexagonally close-packed colloidal monolayer template. Journal of Materials Chemistry, 2010, 20, 5136.	6.7	18
152	Surfaceâ€Coverageâ€Dependent Cycle Stability of Coreâ€Shell Nanostructured Electrodes for Use in Lithium Ion Batteries. Advanced Energy Materials, 2014, 4, 1300472.	19.5	18
153	Li2MnSiO4/carbon nanofiber cathodes for Li-ion batteries. Ionics, 2014, 20, 1351-1359.	2.4	18
154	WO3 nanofibrous backbone scaffolds for enhanced optical absorbance and charge transport in metal oxide (Fe2O3, BiVO4) semiconductor photoanodes towards solar fuel generation. Applied Surface Science, 2018, 447, 331-337.	6.1	18
155	Dispersion of alumina and silica powders in non-aqueous media: Mixed-solvent effects. Ceramics International, 1993, 19, 241-250.	4.8	17
156	Suspension stability and consolidation behavior of ultrafine BaTiO3 particles in nonazeotropic solvent system. Materials Chemistry and Physics, 2003, 82, 181-187.	4.0	17
157	Effect of poly(acrylic acid) and poly(vinyl alcohol) on the solubility of colloidal BaTiO3 in an aqueous medium. Journal of Materials Research, 2003, 18, 1266-1274.	2.6	17
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