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	Strategy to utilize amorphous phase of semiconductor toward excellent and reliable photochemical water splitting performance: Roles of interface dipole moment and reaction parallelization. International Journal of Energy Research, 2022, 46, 3674-3685.	4.5	5
2	Effect of Ta⁵⁺ doping on the thermal physical properties of defective fluorite Y₃NbO₇ ceramics. Journal of the American Ceramic Society, 2022, 105, 1358-1366.	3.8	6
3	Preparation and characterization of slurry for CMP. , 2022, , 323-354.		2
4	Highly reversible cycling with Dendrite-Free lithium deposition enabled by robust SEI layer with low charge transfer activation energy. Applied Surface Science, 2022, 572, 151439.	6.1	8
5	An integrated strategy based on Schiff base reactions to construct unique two-dimensional nanostructures for intrinsic pseudocapacitive sodium/lithium storage. Chemical Engineering Journal, 2022, 429, 132339.	12.7	12
6	Heterostructure design of Fe2(MoO4)3 decorated MoO3 nanorods for boosting catalytic activity in high-performance lithium sulfur batteries. Electrochimica Acta, 2022, 401, 139535.	5.2	4
7	High-Performance Asymmetric Flow-Electrode Capacitive Mixing with MnO₂-Coated Activated Carbon Flow-Electrode for Energy Harvesting from Salinity Gradient Power. , 2022, 4, 618-625.		7
8	Toward High Rate Performance Solidâ€State Batteries. Advanced Energy Materials, 2022, 12, .	19.5	24
9	Design of inorganic/organic bi-layered Li protection layer enabled dendrite-free practical Li metal battery. Chemical Engineering Journal, 2022, 450, 137993.	12.7	7
10	Subcontinuous 2D La0.6Sr0.4CoO3-Î´ nanosheet as an efficient charge conductor for boosting the cathodic activity of solid oxide fuel cells. Electrochimica Acta, 2021, 366, 137371.	5.2	8
11	A robust solid electrolyte interphase layer coated on polyethylene separator surface induced by Ge interlayer for stable Li-metal batteries. Electrochimica Acta, 2021, 370, 137703.	5.2	10
12	Epitaxial Growth of Nanostructured Li₂Se on Lithium Metal for All Solidâ€State Batteries. Advanced Science, 2021, 8, e2004204.	11.2	36
13	Amorphous Nickelâ€“Iron Borophosphate for a Robust and Efficient Oxygen Evolution Reaction. Advanced Energy Materials, 2021, 11, 2100624.	19.5	120
14	Blocking of radiative thermal conduction in Zn2+-Incorporated high-entropy A2B2O7 fluorite oxides. Ceramics International, 2021, 47, 33544-33553.	4.8	10
15	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
16	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
17	Cross Effect of Surface Area and Electrical Conductivity for Carbonaceous Materials in Flow-electrode Capacitive Mixing (F-CapMix) and Flow-electrode Capacitive Deionization (FCDI): Solid-like Behavior of Flow-electrode. ACS Sustainable Chemistry and Engineering, 2021, 9, 13514-13525.	6.7	12
18	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

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19	Effect of cation substitution on thermophysical properties of fluorite A3BO7 ceramics. Journal of Alloys and Compounds, 2021, 883, 160848.	5.5	7
20	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
21	Dendrite-free lithium plating enabled by yolk shell structured ZnO/C sphere coated polyethylene separator for stable lithium metal anodes. Journal of Alloys and Compounds, 2021, 885, 161157.	5.5	8
22	Enhanced Electrochemical Performance and Durability of the BaCo_{0.4}Fe_{0.4}Zr_{0.1}Y_{0.1}O_{3â^'Î´} Composite Cathode of Protonic Ceramic Fuel Cells via Forming Nickel Oxide Nanoparticles. ACS Applied Energy Materials, 2021, 4, 11564-11573.	5.1	11
23	Hot corrosion behavior in thermal barrier coatings with heterogeneous splat boundary. Corrosion Science, 2020, 163, 108225.	6.6	10
24	Copper Nitride Nanowires Printed Li with Stable Cycling for Li Metal Batteries in Carbonate Electrolytes. Advanced Materials, 2020, 32, e1905573.	21.0	105
25	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
26	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
27	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
28	Understanding the thermal decomposition mechanism of La2Zr2O7 during isothermal exposure. Surface and Coatings Technology, 2020, 389, 125546.	4.8	8
29	Unprecedentedly Low CO₂ Transport through Vertically Aligned, Conical Silicon Nanotube Membranes. Nano Letters, 2020, 20, 4754-4760.	9.1	9
30	High Rate Capability of a LiNi_{0.84}Co_{0.12}Mn_{0.04}O₂ Cathode with a Uniform Conducting Network of Functionalized Graphene Nanoribbons for Li-Ion Batteries. Industrial & Engineering Chemistry Research, 2020, 59, 12889-12895.	3.7	3
31	Improvement in hot corrosion resistance and chemical stability of YSZ by introducing a Lewis neutral layer on thermal barrier coatings. Corrosion Science, 2020, 173, 108776.	6.6	10
32	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
33	Crack-Growth Behavior in Thermal Barrier Coatings with Cyclic Thermal Exposure. Coatings, 2019, 9, 365.	2.6	11
34	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
35	Current Status of Selfâ€Supported Catalysts for Robust and Efficient Water Splitting for Commercial Electrolyzer. ChemCatChem, 2019, 11, 5898-5912.	3.7	47
36	Crack-Resistance Behavior of an Encapsulated, Healing Agent Embedded Buffer Layer on Self-Healing Thermal Barrier Coatings. Coatings, 2019, 9, 358.	2.6	7

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37	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
38	Advantageous crystallineâ€“amorphous phase boundary for enhanced electrochemical water oxidation. Energy and Environmental Science, 2019, 12, 2443-2454.	30.8	315
39	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
40	Sb-based electrode materials for rechargeable batteries. Journal of Materials Chemistry A, 2018, 6, 8159-8193.	10.3	95
41	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
42	Boosting Electrochemical Water Oxidation with Metal Hydroxide Carbonate Templated Prussian Blue Analogues. Angewandte Chemie, 2018, 130, 1255-1259.	2.0	25
43	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
44	Boosting Electrochemical Water Oxidation with Metal Hydroxide Carbonate Templated Prussian Blue Analogues. Angewandte Chemie - International Edition, 2018, 57, 1241-1245.	13.8	180
45	Metal Organic Framework Derived Materials: Progress and Prospects for the Energy Conversion and Storage. Advanced Materials, 2018, 30, e1705146.	21.0	376
46	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
47	Communicationâ€”Synergistic Effect of Mixed Particle Size on W CMP Process: Optimization Using Experimental Design. ECS Journal of Solid State Science and Technology, 2017, 6, P42-P44.	1.8	12
48	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
49	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
50	Synergistic protective effect of a BN-carbon separator for highly stable lithium sulfur batteries. NPG Asia Materials, 2017, 9, e375-e375.	7.9	85
51	Highly Dispersed Fe3+-Substituted Colloidal Silica Nanoparticles for Defect-Free Tungsten Chemical Mechanical Planarization. ECS Journal of Solid State Science and Technology, 2017, 6, P405-P409.	1.8	5
52	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
53	Communicationâ€”Corrosion Behavior of Tungsten Metal Gate in the Presence of Hydrogen Peroxide at Acidic Medium. ECS Journal of Solid State Science and Technology, 2017, 6, P169-P171.	1.8	7
54	Synergetic control of band gap and structural transformation for optimizing TiO 2 photocatalysts. Applied Catalysis B: Environmental, 2017, 210, 513-521.	20.2	37

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55	Inâ€Plane Deformation Mechanics for Highly Stretchable Electronics. Advanced Materials, 2017, 29, 1604989.	21.0	141
56	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
57	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
58	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
59	Dielectric Polarization of a High-Energy Density Graphite Anode and Its Physicochemical Effect on Li-Ion Batteries. Industrial & Engineering Chemistry Research, 2017, 56, 13776-13782.	3.7	5
60	Ce³⁺-enriched coreâ€“shell ceria nanoparticles for silicate adsorption. Journal of Materials Research, 2017, 32, 2829-2836.	2.6	20
61	Thermal durability and fracture behavior of layered Yb-Gd-Y-based thermal barrier coatings in thermal cyclic exposure. Surface and Coatings Technology, 2017, 323, 39-48.	4.8	17
62	Miniaturized Batteryâ€Free Wireless Systems for Wearable Pulse Oximetry. Advanced Functional Materials, 2017, 27, 1604373.	14.9	248
63	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
64	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
65	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
66	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
67	Partially reduced SnO 2 nanoparticles anchored on carbon nanofibers for high performance sodium-ion batteries. Electrochemistry Communications, 2016, 72, 91-95.	4.7	42
68	Role of the oxidation state of cerium on the ceria surfaces for silicate adsorption. Applied Surface Science, 2016, 389, 311-315.	6.1	37
69	Formation of Niâ€“Coâ€“MoS₂ Nanoboxes with Enhanced Electrocatalytic Activity for Hydrogen Evolution. Advanced Materials, 2016, 28, 9006-9011.	21.0	511
70	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
71	A soft, wearable microfluidic device for the capture, storage, and colorimetric sensing of sweat. Science Translational Medicine, 2016, 8, 366ra165.	12.4	933
72	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

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73	Size-dependent interactions of silica nanoparticles with a flat silica surface. Journal of Colloid and Interface Science, 2016, 483, 177-184.	9.4	25
74	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
75	Battery-free, stretchable optoelectronic systems for wireless optical characterization of the skin. Science Advances, 2016, 2, e1600418.	10.3	336
76	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
77	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
78	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
79	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
80	Exploring Graphene Quantum Dots/TiO2 interface in photoelectrochemical reactions: Solar to fuel conversion. Electrochimica Acta, 2016, 187, 249-255.	5.2	79
81	Carbon coated porous nickel phosphides nanoplates for highly efficient oxygen evolution reaction. Energy and Environmental Science, 2016, 9, 1246-1250.	30.8	839
82	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
83	TiO₂ as an active or supplemental material for lithium batteries. Journal of Materials Chemistry A, 2016, 4, 14-31.	10.3	166
84	Miniaturized Flexible Electronic Systems with Wireless Power and Nearâ€Field Communication Capabilities. Advanced Functional Materials, 2015, 25, 4761-4767.	14.9	148
85	Freestanding rGO-SWNT-STN Composite Film as an Anode for Li Ion Batteries with High Energy and Power Densities. Nanomaterials, 2015, 5, 2380-2390.	4.1	4
86	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
87	Interpolymer complexes of poly(acrylic acid) and poly(ethylene glycol) for low dishing in STI CMP. Applied Surface Science, 2015, 353, 499-503.	6.1	15
88	Hydroxylated carbon nanotube enhanced sulfur cathodes for improved electrochemical performance of lithiumâ€“sulfur batteries. Chemical Communications, 2015, 51, 13682-13685.	4.1	55
89	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
90	Modulating the interaction between gold and TiO₂nanowires for enhanced solar driven photoelectrocatalytic hydrogen generation. Physical Chemistry Chemical Physics, 2015, 17, 19371-19378.	2.8	16

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91	Soft network composite materials with deterministic and bio-inspired designs. Nature Communications, 2015, 6, 6566.	12.8	392
92	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
93	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
94	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
95	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
96	Thermal durability of thermal barrier coatings with bond coat composition in cyclic thermal exposure. Surface and Coatings Technology, 2015, 284, 69-74.	4.8	12
97	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
98	Stackable, three dimensional carbonâ€“metal oxide composite for high performance supercapacitors. Journal of Materials Chemistry A, 2015, 3, 20459-20464.	10.3	15
99	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
100	Epidermal Electronics with Advanced Capabilities in Near-Field Communication. Small, 2015, 11, 906-912.	10.0	224
101	Exfoliation of titanium oxide powder into nanosheets using hydrothermal reaction and its reassembly into flexible papers for thin-film capacitors. Journal of Solid State Chemistry, 2015, 224, 76-81.	2.9	8
102	Control of Adhesion Force Between Ceria Particles and Polishing Pad in Shallow Trench Isolation Chemical Mechanical Planarization. Journal of Nanoscience and Nanotechnology, 2014, 14, 4351-4356.	0.9	15
103	Nitridated Siâ€“Tiâ€“Ni alloy as an anode for Li rechargeable batteries. Journal of Power Sources, 2014, 253, 282-286.	7.8	22
104	3D-interconnected Nanoporous RGO-CNT Structure for Supercapacitors Application. Electrochimica Acta, 2014, 125, 536-542.	5.2	46
105	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
106	Si nanotubes array sheathed with SiN/SiOxNy layer as an anode material for lithium ion batteries. Journal of Electroceramics, 2014, 32, 66-71.	2.0	13
107	One-Dimensional Silicon Nanostructures for Li Ion Batteries. Journal of Physical Chemistry Letters, 2014, 5, 720-731.	4.6	61
108	Li2MnSiO4/carbon nanofiber cathodes for Li-ion batteries. Ionics, 2014, 20, 1351-1359.	2.4	18

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109	Electrochemical Properties of Siâ€Ge Heterostructures as an Anode Material for Lithium Ion Batteries. Advanced Functional Materials, 2014, 24, 1458-1464.	14.9	78
110	Effects of physico-chemical properties between poly(ethyleneimine) and silica abrasive on copper chemical mechanical planarization. Microelectronic Engineering, 2014, 113, 50-54.	2.4	10
111	Synthesis and anti-bacterial activity of AuNRsâ€“PSâ€“MNPs. Materials Letters, 2014, 137, 479-482.	2.6	9
112	Control of bond coat microstructure in HVOF process for thermal barrier coatings. Surface and Coatings Technology, 2014, 260, 63-67.	4.8	4
113	Germanium coating boosts lithium uptake in Si nanotube battery anodes. Physical Chemistry Chemical Physics, 2014, 16, 17930.	2.8	31
114	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
115	Core-Shell Tubular Nanostructured Electrode of Hollow Carbon Nanofiber/Manganese Oxide for Electrochemical Capacitors. Electrochimica Acta, 2014, 141, 39-44.	5.2	29
116	Three-dimensional Gd-doped TiO₂ fibrous photoelectrodes for efficient visible light-driven photocatalytic performance. RSC Advances, 2014, 4, 11750-11757.	3.6	31
117	Synergistic Metalâ€“Metal Oxide Nanoparticles Supported Electrocatalytic Graphene for Improved Photoelectrochemical Glucose Oxidation. ACS Applied Materials & Interfaces, 2014, 6, 4864-4871.	8.0	100
118	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
119	Role of the Surface Chemistry of Ceria Surfaces on Silicate Adsorption. ACS Applied Materials & Interfaces, 2014, 6, 7388-7394.	8.0	44
120	Gold nanoparticle-composite nanofibers for enzymatic electrochemical sensing of hydrogen peroxide. Analyst, The, 2013, 138, 5025.	3.5	28
121	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
122	Microstructure Evolution and Interface Stability of Thermal Barrier Coatings with Vertical Type Cracks in Cyclic Thermal Exposure. Journal of Thermal Spray Technology, 2013, 22, 671-679.	3.1	15
123	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
124	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
125	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
126	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

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127	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
128	Control of H2O generated during the CO2 hardening process in a casting mold. Ceramics International, 2013, 39, 3993-3998.	4.8	7
129	Stretchable batteries with self-similar serpentine interconnects and integrated wireless recharging systems. Nature Communications, 2013, 4, 1543.	12.8	1,169
130	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
131	Solâ€“gel nanoglues for an organic binder-free TiO2 nanofiber anode for lithium ion batteries. Nanoscale, 2013, 5, 3230.	5.6	30
132	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
133	Effect of ambient pressure on the selective growth of square In2O3 nanowires. Metals and Materials International, 2013, 19, 623-627.	3.4	0
134	Quantum Dot Based Heterostructures for Unassisted Photoelectrochemical Hydrogen Generation. Advanced Energy Materials, 2013, 3, 176-182.	19.5	101
135	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
136	LEGO-like assembly of peelable, deformable components for integrated devices. NPG Asia Materials, 2013, 5, e66-e66.	7.9	12
137	Patterned oxide semiconductor by electrohydrodynamic jet printing for transparent thin film transistors. Applied Physics Letters, 2012, 100, .	3.3	60
138	Si/Ge Double-Layered Nanotube Array as a Lithium Ion Battery Anode. ACS Nano, 2012, 6, 303-309.	14.6	225
139	SnO2 encapsulated TiO2 hollow nanofibers as anode material for lithium ion batteries. Electrochemistry Communications, 2012, 22, 81-84.	4.7	58
140	A Ge inverse opal with porous walls as an anode for lithium ion batteries. Energy and Environmental Science, 2012, 5, 9028.	30.8	104
141	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
142	Powder preparation for a shell mold using a new coating process. Ceramics International, 2012, 38, 2749-2755.	4.8	4
143	Nanostructured Materials for Energy Storage Devices. The Electrical Engineering Handbook, 2012, , 713-738.	0.2	0
144	Silicon nanowires with a carbon nanofiber branch as lithium-ion anode material. Journal of Materials Chemistry, 2011, 21, 12619.	6.7	35

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145	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
146	Nitridated TiO2 hollow nanofibers as an anode material for high power lithium ion batteries. Energy and Environmental Science, 2011, 4, 4532.	30.8	242
147	Enhanced Electrochemical Properties of LiFePO₄ Electrodes with Carboxylated Poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Ov Chemistry C, 2011, 115, 16242-16246.	3.1	14
148	Analysis of thermoelastic characteristics for vertical-cracked thermal barrier coatings through mathematical approaches. Surface and Coatings Technology, 2011, 206, 1615-1620.	4.8	3
149	Optical properties of laterally aligned Si nanowires for transparent electronics applications. Nano Research, 2011, 4, 817-823.	10.4	4
150	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
151	A new in situ process in precision casting for mold fabrication. Journal of the European Ceramic Society, 2011, 31, 1581-1588.	5.7	12
152	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
153	Interfacial stability and contact damage resistance by incorporating buffer layer in thermal barrier coatings. Progress in Organic Coatings, 2010, 68, 135-141.	3.9	2
154	Interfacial stability and contact damage resistance by incorporating buffer layer in thermal barrier coatings. Progress in Organic Coatings, 2010, 67, 95-101.	3.9	4
155	Thermal cycling behavior and interfacial stability in thick thermal barrier coatings. Surface and Coatings Technology, 2010, 205, 1250-1255.	4.8	41
156	Enhancement of electroâ€optical properties in holographic polymerâ€dispersed liquid crystal films by incorporation of multiwalled carbon nanotubes into a polyurethane acrylate matrix. Polymer International, 2010, 59, 1289-1295.	3.1	10
157	GaAs photovoltaics and optoelectronics using releasable multilayer epitaxial assemblies. Nature, 2010, 465, 329-333.	27.8	524
158	Nanoscale printing simplified. Nature Nanotechnology, 2010, 5, 385-386.	31.5	15
159	Increase in the Adsorption Density of Anionic Molecules on Ceria for Defect-Free STI CMP. Journal of the Electrochemical Society, 2010, 157, H72.	2.9	17
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