## Jun-Young Park

## List of Publications by Year in Descending Order

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26 2,376 148 37 g-index h-index citations papers 160 2,826 5.11 5.9 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
148	Assessing the degradation pattern and mechanism of membranes in polymer electrolyte membrane fuel cells using open-circuit voltage hold and humidity cycle test protocols. <i>Materials Science for Energy Technologies</i> , <b>2022</b> , 5, 66-73	5.2	O
147	Redox Activity of Li2SP2S5 Electrolyte Inducing Chemo-Mechanical Failure in All-Solid-State Batteries Comprising Sulfur Composite Cathode and LiBi Alloy Anode. <i>Chemical Engineering Journal</i> , <b>2022</b> , 136229	14.7	1
146	Nonideal defect structure and high-temperature transport properties of misfit-layered cobalt oxide. <i>Journal of Solid State Chemistry</i> , <b>2022</b> , 123299	3.3	1
145	Pr- and Sm-Substituted Layered Perovskite Oxide Systems for IT-SOFC Cathodes. <i>Energies</i> , <b>2021</b> , 14, 6739	3.1	2
144	Degradation Mechanisms of Solid Oxide Fuel Cells under Various Thermal Cycling Conditions. <i>ACS Applied Materials &amp; District Materials </i>	9.5	3
143	Multiple perovskite layered lanthanum nickelate Ruddlesden-Popper systems as highly active bifunctional oxygen catalysts. <i>Chemical Engineering Journal</i> , <b>2021</b> , 409, 128226	14.7	7
142	Novel organic-inorganic polyphosphate based composite material as highly dense and robust electrolyte for low temperature fuel cells. <i>Journal of Power Sources</i> , <b>2021</b> , 493, 229696	8.9	3
141	High Capacity, Rate-Capability, and Power Delivery at High-Temperature by an Oxygen-Deficient Perovskite Oxide as Proton Insertion Anodes for Energy Storage Devices. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 070540	3.9	0
140	Cobalt-free perovskite Ba1-xNdxFeO3-lair electrode materials for reversible solid oxide cells. <i>Ceramics International</i> , <b>2021</b> , 47, 7985-7993	5.1	8
139	Activity of layered swedenborgite structured Y0.8Er0.2BaCo3.2Ga0.8O7+Ifor oxygen electrode reactions in at intermediate temperature reversible ceramic cells. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 607-621	13	10
138	Ultrahigh-sensitive mixed-potential ammonia sensor using dual-functional NiWO electrocatalyst for exhaust environment monitoring. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 403, 123797	12.8	12
137	Transition from perovskite to misfit-layered structure materials: a highly oxygen deficient and stable oxygen electrode catalyst. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 2472-2484	35.4	13
136	Improved mechanical strength, proton conductivity and power density in an Sall-protonicSceramic fuel cell at intermediate temperature. <i>Scientific Reports</i> , <b>2021</b> , 11, 19382	4.9	6
135	Triple perovskite structured Nd1.5Ba1.5CoFeMnO9lbxygen electrode materials for highly efficient and stable reversible protonic ceramic cells. <i>Journal of Power Sources</i> , <b>2021</b> , 510, 230409	8.9	6
134	Design concept of co-ionic conducting solid oxide electrolyte for stable operation in a cell-imbalanced fuel cell stack. <i>Journal of Power Sources</i> , <b>2021</b> , 512, 230483	8.9	1
133	Synergistic Design of Anatase <b>R</b> utile TiO2 Nanostructured Heterophase Junctions toward Efficient Photoelectrochemical Water Oxidation. <i>Coatings</i> , <b>2020</b> , 10, 557	2.9	6
132	Degradation studies of ceria-based solid oxide fuel cells at intermediate temperature under various load conditions. <i>Journal of Power Sources</i> , <b>2020</b> , 452, 227758	8.9	14

## (2019-2020)

131	3D architecture double perovskite NdBa0.5Sr0.5Co1.5Fe0.5O5+lembedded hollow-net Co3O4 bifunctional electrocatalysts coupled with N-doped CNT and reduced graphene oxide for oxygen electrode reactions. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 823, 153782	5.7	7	
130	High conductivity and high density SrCe0.5Zr0.35Y0.1A0.05O3-[(A = Gd, Sm) proton-conducting electrolytes for IT-SOFCs. <i>Ionics</i> , <b>2020</b> , 26, 1297-1305	2.7	3	
129	Characterization of limiting factors of an all-solid-state Li-ion battery using an embedded indium reference electrode. <i>Ionics</i> , <b>2020</b> , 26, 1555-1561	2.7	4	
128	X-ray photoelectron spectroscopic study of impregnated La0.4Sr0.6Ti0.8Mn0.2O3\(\text{d}\) anode material for high temperature-operating solid oxide fuel cell. <i>Solid State Ionics</i> , <b>2020</b> , 345, 115175	3.3	O	
127	Studies on directly grown few layer graphene processed using tape-peeling method. <i>Carbon</i> , <b>2020</b> , 158, 749-755	10.4	7	
126	Structural and electrical properties of novel phosphate based composite electrolyte for low-temperature fuel cells. <i>Composites Part B: Engineering</i> , <b>2020</b> , 202, 108405	10	10	
125	A New High-Performance Proton-Conducting Electrolyte for Next-Generation Solid Oxide Fuel Cells. <i>Energy Technology</i> , <b>2020</b> , 8, 2000486	3.5	6	
124	Single-step prepared Li2S-P2S5-C composite cathode for high areal capacity all-solid-state lithium ion batteries. <i>Electrochimica Acta</i> , <b>2020</b> , 358, 136884	6.7	5	
123	BaCo0.4Fe0.4Zr0.2O3-ICathode Materials for Protonic Ceramic Fuel Cells. <i>ECS Transactions</i> , <b>2019</b> , 91, 1503-1507	1	2	
122	Syngas Fuelled High Performance Solid Oxide Fuel Cell. <i>ECS Transactions</i> , <b>2019</b> , 91, 1621-1629	1	4	
121	Analysis of Internal Gas Leaks in an MCFC System Package for an LNG-Fueled Ship. <i>Applied Sciences</i> (Switzerland), <b>2019</b> , 9, 2330	2.6	3	
120	Spatial investigation of electronic properties in composite electrolytes for solid oxide fuel cells using embedded probes. <i>Journal of Power Sources</i> , <b>2019</b> , 438, 226945	8.9	4	
119	Determination of partial conductivities and computational analysis of the theoretical power density of BaZr0.1Ce0.7Y0.1Yb0.1O3[(BZCYYb1711) electrolyte under various PCFC conditions. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 21321-21328	13	19	
118	Modification of Oxygen-Ionic Transport Barrier of BaCo0.4Zr0.1Fe0.4Y0.1O3\(\textit{S}\)team (Air) Electrode by Impregnating Samarium-Doped Ceria Nanoparticles for Proton-Conducting Reversible Solid Oxide Cells. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, F746-F754	3.9	15	
117	Tolerance to carbon corrosion of various carbon structures as catalyst supports for polymer electrolyte membrane fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 25056-25065	13	23	
116	Chemical evolution-induced strengthening on AlCoCrNi dual-phase high-entropy alloy with high specific strength. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 777, 828-834	5.7	40	
115	Stable ceria-based electrolytes for intermediate temperature-solid oxide fuel cells via hafnium oxide blocking layer. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 779, 121-128	5.7	4	
114	Operation Protocols To Improve Durability of Protonic Ceramic Fuel Cells. <i>ACS Applied Materials</i> & Amp; Interfaces, <b>2019</b> , 11, 457-468	9.5	7	

113	Thermally-triggered Dual In-situ Self-healing Metallic Materials. Scientific Reports, 2018, 8, 2120	4.9	7
112	Investigating the effect of current collecting conditions on solid oxide fuel cell (SOFC) performance with additional voltage probes. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 2349-2358	6.7	12
111	Electrochemical properties of electrospinning-fabricated layered perovskite used in cathode materials for a low temperature-operating solid oxide fuel cell. <i>Thin Solid Films</i> , <b>2018</b> , 660, 663-671	2.2	5
110	Synthesis and electrochemical properties of layered perovskite substituted with heterogeneous lanthanides for intermediate temperature-operating solid oxide fuel cell. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 11378-11385	6.7	3
109	Degradation of Anode-Supported Solid Oxide Fuel Cells under Load Trip and Cycle Conditions and Their Degradation Prevention Operating Logic. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, F728-	F735	8
108	B-site doping effects of NdBa0.75Ca0.25Co2O5+double perovskite catalysts for oxygen evolution and reduction reactions. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 17807-17818	13	36
107	Cooperative deformation behavior between the shear band and boundary sliding of an Al-based nanostructure-dendrite composite. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> <b>2018</b> , 735, 81-88	5.3	19
106	Oxygen-deficient triple perovskites as highly active and durable bifunctional electrocatalysts for oxygen electrode reactions. <i>Science Advances</i> , <b>2018</b> , 4, eaap9360	14.3	136
105	Durability tests of BCY-BZY electrolyte fuel cells under severe operating conditions. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 735, 2341-2347	5.7	7
104	WSSe Nanoparticles Decorated Three-Dimensional Graphene on Nickel Foam: A Robust and Highly Efficient Electrocatalyst for the Hydrogen Evolution Reaction. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	19
103	Degradation behavior of Ni-YSZ anode-supported solid oxide fuel cell (SOFC) as a function of H2S concentration. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 22511-22518	6.7	19
102	Enhanced performance of intermediate temperature-solid oxide fuel cells with a bimodal shape Nd 0.2 Ce 0.8 O 2lelectrolyte. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 706, 330-339	5.7	2
101	Quantized interfacial properties at lead sulfide/Zn1\( \text{MMgxO}\) energy harvesting assembly: Formation of nanocrystal solid solution. Solar Energy Materials and Solar Cells, 2017, 164, 156-164	6.4	5
100	Highly active and durable nitrogen doped-reduced graphene oxide/double perovskite bifunctional hybrid catalysts. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 13019-13031	13	34
99	Performance improvement of all-solid-state Li-S batteries with optimizing morphology and structure of sulfur composite electrode. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 723, 787-794	5.7	33
98	Investigation of Electronic Transport Property and Durability of BCY-BZY Electrolyte Cells Using Embedded Probes. <i>Electrochimica Acta</i> , <b>2017</b> , 236, 399-407	6.7	11
97	High-Temperature Current Collection Enabled by the in Situ Phase Transformation of Cobalt-Nickel Foam for Solid Oxide Fuel Cells. <i>ACS Applied Materials &amp; Enamp; Interfaces</i> , <b>2017</b> , 9, 39407-39415	9.5	7
96	Oxygen electrode reactions of doped BiFeO3 materials for low and elevated temperature fuel cell applications. <i>RSC Advances</i> , <b>2017</b> , 7, 47643-47653	3.7	12

## (2015-2017)

95	Electrochemcial Performances of La-Doped SrTiO3Anode Materials for Intermediate Temperature-Solid Oxide Fuel Cells. <i>ECS Transactions</i> , <b>2017</b> , 78, 1237-1243	1	2
94	Energy harvesting efficiency of piezoelectric polymer film with graphene and metal electrodes. <i>Scientific Reports</i> , <b>2017</b> , 7, 17290	4.9	44
93	Synthesis, structure and electrochemical performance of double perovskite oxide Sr2Fe1-xTixNbO6-las SOFC electrode. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 724, 666-673	5.7	11
92	Inorganic gel and liquid crystal based smart window using silica sol-gel process. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 159, 488-495	6.4	24
91	Electrochemical properties and durability of in-situ composite cathodes with SmBa0.5Sr0.5Co2O5+Ifor metal supported solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 1212-1220	6.7	10
90	Tunable Exciton Dissociation and Luminescence Quantum Yield at a Wide Band Gap Nanocrystal/Quasi-Ordered Regioregular Polythiophene interface. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 26119-26128	3.8	4
89	Experimental data of inorganic gel based smart window using silica sol-gel process. <i>Data in Brief</i> , <b>2016</b> , 9, 716-722	1.2	
88	Electrical and physical properties of composite BaZr0.85Y0.15O3d-Nd0.1Ce0.9O2delectrolytes for intermediate temperature-solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2016</b> , 336, 437-446	8.9	20
87	Characterization of Graphene-based FET Fabricated using a Shadow Mask. <i>Scientific Reports</i> , <b>2016</b> , 6, 25050	4.9	20
86	Study of Graphene-based 2D-Heterostructure Device Fabricated by All-Dry Transfer Process. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2016</b> , 8, 3072-8	9.5	38
85	Flexible polymer dispersed liquid crystal film with graphene transparent electrodes. <i>Current Applied Physics</i> , <b>2016</b> , 16, 409-414	2.6	23
84	Understanding the relationship between microstructure and mechanical properties of AltuBi ultrafine eutectic composites. <i>Materials and Design</i> , <b>2016</b> , 92, 1038-1045	8.1	37
83	Enhancement of Bifunctional Activity of the Hybrid Catalyst of Hollow-Net Structure Co3O4and Carbon Nanotubes. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, F3041-F3050	3.9	7
82	Enhancing Activity and Stability of Cobalt Oxide Electrocatalysts for the Oxygen Evolution Reaction via Transition Metal Doping. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, F3020-F3028	3.9	44
81	Robust NdBa0.5Sr0.5Co1.5Fe0.5O5+Lathode material and its degradation prevention operating logic for intermediate temperature-solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2016</b> , 331, 495-506	8.9	30
80	Characterisation of carbon nanotube pastes for field emission using their sheet resistances. <i>Applied Surface Science</i> , <b>2015</b> , 353, 54-62	6.7	1
79	Designing porous metallic glass compact enclosed with surface iron oxides. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 635, 233-237	5.7	5
78	Improving the plasticity and strength of FeNbB ultrafine eutectic composite. <i>Materials &amp; Design</i> , <b>2015</b> , 76, 190-195		22

77	Enhanced proton conductivity of yttrium-doped barium zirconate with sinterability in protonic ceramic fuel cells. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 639, 435-444	5.7	42
76	Degradation analysis of anode-supported intermediate temperature-solid oxide fuel cells under various failure modes. <i>Journal of Power Sources</i> , <b>2015</b> , 276, 120-132	8.9	18
75	Effect of Ni and Mn on the Mechanical Properties of 22Cr Micro-duplex Stainless Steel. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2015</b> , 28, 32-38	2.5	9
74	Effect of partial substitution of Sn4+ by M4+ (M=Si, ti, and Ce) on sinterability and ionic conductivity of SnP2O7. <i>Ceramics International</i> , <b>2015</b> , 41, 3339-3343	5.1	8
73	Electrochemical properties of dual phase neodymium-doped ceria alkali carbonate composite electrolytes in intermediate temperature. <i>Journal of Power Sources</i> , <b>2015</b> , 275, 563-572	8.9	38
72	Simple and Precise Quantification of Iron Catalyst Content in Carbon Nanotubes Using UV/Visible Spectroscopy. <i>ChemistryOpen</i> , <b>2015</b> , 4, 613-9	2.3	14
71	EFFECT OF ELECTRODE DESIGN ON ELECTROCHEMICAL PERFORMANCE OF ALL-SOLID-STATE LITHIUM SECONDARY BATTERIES USING LITHIUM-SILICIDE ANODES. <i>Electrochimica Acta</i> , <b>2015</b> , 185, 242-249	6.7	7
70	Dense composite electrolytes of Gd3+-doped cerium phosphates for low-temperature proton-conducting ceramic-electrolyte fuel cells. <i>Ceramics International</i> , <b>2015</b> , 41, 4814-4821	5.1	11
69	Effect of Annealing in Ar/H2 Environment on Chemical Vapor Deposition-Grown Graphene Transferred With Poly (Methyl Methacrylate). <i>IEEE Nanotechnology Magazine</i> , <b>2015</b> , 14, 70-74	2.6	25
68	Surface exchange kinetics and chemical diffusivities of BaZr0.2Ce0.65Y0.15O3Iby electrical conductivity relaxation. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 610, 301-307	5.7	7
67	Improvement on performance and efficiency of direct methanol fuel cells using hydrocarbon-based membrane electrode assembly. <i>Applied Energy</i> , <b>2014</b> , 115, 95-102	10.7	17
66	PdO-doped BaZr0.8Y0.2O3lelectrolyte for intermediate-temperature protonic ceramic fuel cells. <i>Acta Materialia</i> , <b>2014</b> , 66, 273-283	8.4	22
65	General algorithm and method for scanning a via hole by using critical-dimension atomic force microscopy. <i>Journal of the Korean Physical Society</i> , <b>2014</b> , 64, 1643-1647	0.6	2
64	Degradation pattern prediction of a polymer electrolyte membrane fuel cell stack with series reliability structure via durability data of single cells. <i>Applied Energy</i> , <b>2014</b> , 131, 48-55	10.7	40
63	Combinatorial Influence of Bimodal Size of B2 TiCu Compounds on Plasticity of Ti-Cu-Ni-Zr-Sn-Si Bulk Metallic Glass Composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2014</b> , 45, 2376-2381	2.3	24
62	Post-mortem analysis of a long-term tested proton exchange membrane fuel cell stack under low cathode humidification conditions. <i>Journal of Power Sources</i> , <b>2014</b> , 253, 90-97	8.9	12
61	New metric for evaluating the purity of single-walled carbon nanotubes using ultraviolet lisible-near infrared absorption spectroscopy. <i>Carbon</i> , <b>2014</b> , 75, 68-80	10.4	5
60	Highly conductive barium zirconate-based carbonate composite electrolytes for intermediate temperature-protonic ceramic fuel cells. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 585, 103-110	5.7	21

59	Mechanically stable tuning fork sensor with high quality factor for the atomic force microscope. <i>Scanning</i> , <b>2014</b> , 36, 632-9	1.6	3
58	Micro-to-nano-scale deformation mechanisms of a bimodal ultrafine eutectic composite. <i>Scientific Reports</i> , <b>2014</b> , 4, 6500	4.9	36
57	Electrochromic Device Containing Heptyl Viologen, PEDOT, TiO2and TEMPO. <i>Journal of the Electrochemical Society</i> , <b>2014</b> , 161, H716-H721	3.9	7
56	Competition between Charge Transport and Energy Barrier in Injection-Limited Metal/Quantum Dot Nanocrystal Contacts. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 6393-6400	9.6	11
55	Ionic Conductivity of Gd3+Doped Cerium Pyrophosphate Electrolytes with Core-Shell Structure. Journal of the Electrochemical Society, <b>2014</b> , 161, F464-F472	3.9	17
54	Mn2+-Doped CeP2O7Composite Electrolytes for Application in Low Temperature Proton-Conducting Ceramic Electrolyte Fuel Cells. <i>Journal of the Electrochemical Society</i> , <b>2014</b> , 161, F13	<i>3</i> -713	8 <sup>13</sup>
53	Partial Conductivities and Chemical Diffusivities of Multi-Ion Transporting BaZrxCe0.85-xY0.15O3-(k = 0, 0.2, 0.4 and 0.6). <i>Journal of the Electrochemical Society</i> , <b>2014</b> , 161, F991-F	1881	7
52	Charge and Mass Transport Properties of BaCe0.45Zr0.4Y0.15O3-IJournal of the Electrochemical Society, <b>2014</b> , 161, F710-F716	3.9	13
51	Impact of framework structure of ordered mesoporous carbons on the performance of supported Pt catalysts for oxygen reduction reaction. <i>Carbon</i> , <b>2014</b> , 72, 354-364	10.4	35
50	Ionic conductivity of Mn2+ doped dense tin pyrophosphate electrolytes synthesized by a new co-precipitation method. <i>Journal of the European Ceramic Society</i> , <b>2014</b> , 34, 2967-2976	6	14
49	Study of Electrical Conductivity of BaZr0.85-xPdxY0.15O3-A Carbonates Composite Materials. Journal of the Korean Ceramic Society, <b>2014</b> , 51, 283-288	2.2	
48	Ceria-based electrolyte reinforced by solgel technique for intermediate-temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 9867-9872	6.7	14
47	Electrical conductivity of M2+-doped (M=Mg, Ca, Sr, Ba) cerium pyrophosphate-based composite electrolytes for low-temperature proton conducting electrolyte fuel cells. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 578, 279-285	5.7	16
46	Heterogeneous duplex structured TiBnMo alloys with high strength and large plastic deformability. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 574, 546-551	5.7	12
45	Microstructure polarization relations in nickel/gadolinia-doped ceria anode for intermediate-temperature solid oxide fuel cells. <i>Ceramics International</i> , <b>2013</b> , 39, 4713-4718	5.1	13
44	Experimental evidence of hydrogenBxygen decoupled diffusion into BaZr0.6Ce0.25Y0.15O3II <i>Acta Materialia</i> , <b>2013</b> , 61, 1274-1283	8.4	28
43	Characteristics of dye-sensitized solar cells with surface-modified multi-walled carbon nanotubes as counter electrodes. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 906-912	4.3	13
42	Various synthesis methods of aliovalent-doped ceria and their electrical properties for intermediate temperature solid oxide electrolytes. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 1571-1587	6.7	53

41	Degradation mechanisms and mitigation strategies of metal cations in recycled fuel for direct methanol fuel cell membrane electrode assembly. <i>Journal of Power Sources</i> , <b>2013</b> , 242, 646-655	8.9	7	
40	Studies on Ionic Conductivity of Sr2+-Doped CeP2O7 Electrolyte in Humid Atmosphere. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 2653-2661	3.8	34	
39	Lifetime prediction of a polymer electrolyte membrane fuel cell via an accelerated startup@hutdown cycle test. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 9775-9781	6.7	42	
38	The stress-dependent piezoelectric coefficient of ZnO wire measured by piezoresponse force microscopy. <i>Scripta Materialia</i> , <b>2012</b> , 66, 101-104	5.6	13	
37	Dye-sensitized solar cells using ion-gel electrolytes for long-term stability. <i>Journal of Power Sources</i> , <b>2012</b> , 201, 395-401	8.9	40	
36	Electrical Behavior of CeP2O7Electrolyte for the Application in Low-Temperature Proton-Conducting Ceramic Electrolyte Fuel Cells. <i>Journal of the Electrochemical Society</i> , <b>2012</b> , 159, F8	1 <i>3</i> :P82	5 <sup>22</sup>	
35	Optimization of mechanical properties of TifeBn alloys by controlling heterogeneous eutectic structure. <i>Intermetallics</i> , <b>2012</b> , 23, 27-31	3.5	13	
34	Solid-state phase transformation-induced heterogeneous duplex structure in TiBnHe alloys. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 515, 86-89	5.7	10	
33	Addition effects of erbia-stabilized bismuth oxide on ceria-based carbonate composite electrolytes for intermediate temperature-Bolid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 16823-16834	6.7	23	
32	Operating Temperature Dependency on Performance Degradation of Direct Methanol Fuel Cells. <i>Fuel Cells</i> , <b>2012</b> , 12, 426-438	2.9	20	
31	High-current field emission of point-type carbon nanotube emitters on Ni-coated metal wires. <i>Carbon</i> , <b>2012</b> , 50, 2126-2133	10.4	19	
30	Operational characteristics of the direct methanol fuel cell stack on fuel and energy efficiency with performance and stability. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 5946-5957	6.7	18	
29	Effect of solubility on strengthening of Aglu ultrafine eutectic composites. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 9015-9018	5.7	7	
28	Effect of microstructure modulation on mechanical properties of Ti-Fe-Sn ultrafine eutectic composites. <i>Metals and Materials International</i> , <b>2011</b> , 17, 873-877	2.4	16	
27	Influence and mitigation methods of reaction intermediates on cell performance in direct methanol fuel cell system. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 5446-5452	8.9	14	
26	High performance membrane electrode assemblies by optimization of coating process and catalyst layer structure in direct methanol fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 5096-5	1637	32	
25	Stable operation of air-blowing direct methanol fuel cell stacks through uniform oxidant supply by varying fluid flow fixtures and developing the flow sensor. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 9205-9215	6.7	7	
24	High-temperature transport properties of La0.1Sr0.9Co0.8Fe0.2O3\(\text{Solid State Ionics}\), 2011, 192, 269-2	743.3	20	

23	Graphite patterning in a controlled gas environment. <i>Nanotechnology</i> , <b>2011</b> , 22, 335304	3.4	13
22	Determination of Oxygen Chemical Diffusivity from Chemical Expansion Relaxation for BaCo[sub 0.7]Fe[sub 0.22]Nb[sub 0.08]O[sub 3¶ <i>Journal of the Electrochemical Society</i> , <b>2011</b> , 158, B189	3.9	9
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