

Yong-Gun Shul

List of Publications by Year in descending order

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209
papers

5,655
citations

61984

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114465

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all docs

211
docs citations

211
times ranked

7343
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of pore-size distribution of diffusion layer on mass-transport problems of proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2002, 108, 185-191.	7.8	301
2	A New Family of Perovskite Catalysts for Oxygen-Evolution Reaction in Alkaline Media: BaNiO ₃ and BaNi _{0.83} O _{2.5} . <i>Journal of the American Chemical Society</i> , 2016, 138, 3541-3547.	13.7	204
3	Tailoring gadolinium-doped ceria-based solid oxide fuel cells to achieve 2%W/cm ² at 550°C. <i>Nature Communications</i> , 2014, 5, 4045.	12.8	193
4	Preparation and Characterization of Polypyrrole-Coated Nanosized Novel Ceramics. <i>Langmuir</i> , 2001, 17, 456-461.	3.5	145
5	Core-shell nanostructured heteropoly acid-functionalized metal-organic frameworks: Bifunctional heterogeneous catalyst for efficient biodiesel production. <i>Applied Catalysis B: Environmental</i> , 2019, 242, 51-59.	20.2	115
6	Carbon-supported, nano-structured, manganese oxide composite electrode for electrochemical supercapacitor. <i>Journal of Power Sources</i> , 2007, 173, 1024-1028.	7.8	110
7	Three-dimensional arrangements of perovskite-type oxide nano-fiber webs for effective soot oxidation. <i>Applied Catalysis B: Environmental</i> , 2016, 191, 157-164.	20.2	110
8	Ag supported on electrospun macro-structure CeO ₂ fibrous mats for diesel soot oxidation. <i>Applied Catalysis B: Environmental</i> , 2015, 174-175, 185-192.	20.2	97
9	PtRu/C-Au/TiO ₂ electrocatalyst for a direct methanol fuel cell. <i>Journal of Power Sources</i> , 2006, 159, 484-490.	7.8	90
10	Enhancing the organic dye adsorption on porous xerogels. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004, 240, 157-164.	4.7	88
11	SiO ₂ /sulfonated poly ether ether ketone (SPEEK) composite nanofiber mat supported proton exchange membranes for fuel cells. <i>Journal of Materials Science</i> , 2013, 48, 3665-3671.	3.7	87
12	Acid-base polyimide blends for the application as electrolyte membranes for fuel cells. <i>Journal of Membrane Science</i> , 2006, 280, 321-329.	8.2	86
13	Magnetic poly ϵ -caprolactone nanoparticles containing Fe ₃ O ₄ and gemcitabine enhance anti-tumor effect in pancreatic cancer xenograft mouse model. <i>Journal of Drug Targeting</i> , 2007, 15, 445-453.	4.4	71
14	Selective Ion Transporting Polymerized Ionic Liquid Membrane Separator for Enhancing Cycle Stability and Durability in Secondary Zinc-Air Battery Systems. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 26298-26308.	8.0	69
15	Design of active Pt on TiO ₂ based nanofibrous cathode for superior PEMFC performance and durability at high temperature. <i>Applied Catalysis B: Environmental</i> , 2017, 204, 421-429.	20.2	69
16	DNA Core@Inorganic Shell. <i>Journal of the American Chemical Society</i> , 2010, 132, 16735-16736.	13.7	67
17	Combinatorial investigation of Pt-Ru-Sn alloys as an anode electrocatalysts for direct alcohol fuel cells. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 11261-11270.	7.1	66
18	New CoO-SiO ₂ -Sol Pillared Clays as Catalysts for NO _x Conversion. <i>Chemistry of Materials</i> , 2002, 14, 3823-3828.	6.7	61

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19	Catalytic dehydrogenation of ethylbenzene with carbon dioxide: promotional effect of antimony in supported vanadium-antimony oxide catalyst. <i>Catalysis Today</i> , 2003, 87, 205-212.	4.4	60
20	Investigation of MEA degradation in PEM fuel cell by on/off cyclic operation under different humid conditions. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 1828-1836.	7.1	60
21	A facile preparation method of surface patterned polymer electrolyte membranes for fuel cell applications. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8652-8659.	10.3	60
22	Title is missing!. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2000, 246, 299-307.	1.5	59
23	Nafion-Nafion/polyvinylidene fluoride-Nafion laminated polymer membrane for direct methanol fuel cells. <i>Journal of Power Sources</i> , 2004, 135, 66-71.	7.8	59
24	Photocatalytic Properties of Silica-supported TiO ₂ . <i>Topics in Catalysis</i> , 2005, 35, 287-293.	2.8	59
25	Evaluation of the Nafion effect on the activity of Pt-Ru electrocatalysts for the electro-oxidation of methanol. <i>Journal of Power Sources</i> , 2003, 118, 334-341.	7.8	57
26	Synthesis and characterization of mesoporous Fe/SiO ₂ for magnetic drug targeting. <i>Journal of Materials Chemistry</i> , 2006, 16, 1617.	6.7	55
27	The effect of crosslinked networks with poly(ethylene glycol) on sulfonated polyimide for polymer electrolyte membrane fuel cell. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 1455-1464.	2.1	54
28	Synthesis of heteropolyacid (H ₃ PW ₁₂ O ₄₀)/SiO ₂ nanoparticles and their catalytic properties. <i>Applied Catalysis A: General</i> , 2006, 299, 46-51.	4.3	54
29	Formation and evaluation of semi-IPN of nafion 117 membrane for direct methanol fuel cell. <i>Journal of Power Sources</i> , 2007, 171, 86-91.	7.8	53
30	Replacement of Ca by Ni in a Perovskite Titanate to Yield a Novel Perovskite Exsolution Architecture for Oxygen Evolution Reactions. <i>Advanced Energy Materials</i> , 2020, 10, 1903693.	19.5	53
31	Support effects in catalytic wet oxidation of H ₂ S to sulfur on supported iron oxide catalysts. <i>Applied Catalysis A: General</i> , 2005, 284, 1-4.	4.3	52
32	Preparation of Pt/zeolite-Nafion composite membranes for self-humidifying polymer electrolyte fuel cells. <i>Journal of Power Sources</i> , 2007, 165, 733-738.	7.8	51
33	Thermal and hydrolytic stability of sulfonated polyimide membranes with varying chemical structure. <i>Polymer Degradation and Stability</i> , 2005, 90, 431-440.	5.8	50
34	Sulfonic-functionalized heteropolyacid-silica nanoparticles for high temperature operation of a direct methanol fuel cell. <i>Journal of Power Sources</i> , 2006, 158, 137-142.	7.8	50
35	Interface-designed Membranes with Shape-controlled Patterns for High-performance Polymer Electrolyte Membrane Fuel Cells. <i>Scientific Reports</i> , 2015, 5, 16394.	3.3	50
36	Synthesis, characterization and photocatalytic reactivities of Mo-MCM-41 mesoporous molecular sieves: Effect of the Mo content on the local structures of Mo-oxides. <i>Journal of Catalysis</i> , 2005, 235, 272-278.	6.2	49

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37	Growth and characterization of carbon-supported MnO ₂ nanorods for supercapacitor electrode. <i>Physica B: Condensed Matter</i> , 2008, 403, 1763-1769.	2.7	48
38	Phosphate-Modified TiO ₂ /ZrO ₂ Nanofibrous Web Composite Membrane for Enhanced Performance and Durability of High-Temperature Proton Exchange Membrane Fuel Cells. <i>Energy & Fuels</i> , 2017, 31, 7645-7652.	5.1	48
39	Influence of Mg doping on the performance of LiNiO ₂ matrix ceramic nanoparticles in high-voltage lithium-ion cells. <i>Journal of Power Sources</i> , 2007, 171, 922-927.	7.8	46
40	Activity and active sites of nitrogen-doped carbon nanotubes for oxygen reduction reaction. <i>Journal of Applied Electrochemistry</i> , 2013, 43, 387-397.	2.9	46
41	Silver and manganese oxide catalysts supported on mesoporous ZrO ₂ nanofiber mats for catalytic removal of benzene and diesel soot. <i>Catalysis Today</i> , 2017, 281, 460-466.	4.4	45
42	Electrosorption of uranium ions on activated carbon fibers. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2011, 287, 833-839.	1.5	44
43	Accelerated life-time test protocols for polymer electrolyte membrane fuel cells operated at high temperature. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 3057-3067.	7.1	44
44	Effect of metal and glycol on mechanochemical dechlorination of polychlorinated biphenyls (PCBs). <i>Chemosphere</i> , 2008, 73, 138-141.	8.2	43
45	Oxide-Carbon Nanofibrous Composite Support for a Highly Active and Stable Polymer Electrolyte Membrane Fuel-Cell Catalyst. <i>ACS Nano</i> , 2018, 12, 6819-6829.	14.6	43
46	Hydrogen generation from aqueous acid-catalyzed hydrolysis of sodium borohydride. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 12239-12245.	7.1	41
47	Ag-loaded cerium-zirconium solid solution oxide nano-fibrous webs and their catalytic activity for soot and CO oxidation. <i>Fuel</i> , 2018, 212, 395-404.	6.4	39
48	Preparation of Transparent TS-1 Zeolite Film by Using Nanosized TS-1 Particles. <i>Chemistry of Materials</i> , 1997, 9, 420-422.	6.7	38
49	Process intensification by micro-channel reactor for steam reforming of methanol. <i>Chemical Engineering Journal</i> , 2008, 135, 113-119.	12.7	37
50	P-coumaric acid-zinc basic salt nanohybrid for controlled release and sustained antioxidant activity. <i>Journal of Physics and Chemistry of Solids</i> , 2010, 71, 647-649.	4.0	37
51	Synthesis of mesoporous silica fiber using spinning method. <i>Journal of Non-Crystalline Solids</i> , 2002, 298, 193-201.	3.1	36
52	Temperature-dependent performance of the polymer electrolyte membrane fuel cell using short-side-chain perfluorosulfonic acid ionomer. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 11690-11699.	7.1	36
53	Preparation of mesoporous silica fiber matrix for VOC removal. <i>Catalysis Today</i> , 2002, 74, 249-256.	4.4	35
54	Hollow Fibers Networked with Perovskite Nanoparticles for H ₂ Production from Heavy Oil. <i>Scientific Reports</i> , 2013, 3, 2902.	3.3	35

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55	Accelerated Life-time Tests including Different Load Cycling Protocols for High Temperature Polymer Electrolyte Membrane Fuel Cells. <i>Electrochimica Acta</i> , 2014, 148, 15-25.	5.2	35
56	Effect of operation parameters on performance of micro direct methanol fuel cell fabricated on printed circuit board. <i>Journal of Power Sources</i> , 2006, 161, 27-33.	7.8	33
57	Photoluminescence of La/Ti mixed oxides prepared using sol-gel process and their pCBA photodecomposition. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 185, 156-160.	3.9	33
58	Sulfuric acid decomposition on the Pt/n-SiC catalyst for SI cycle to produce hydrogen. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 4181-4188.	7.1	33
59	Sr _{0.92} Y _{0.08} TiO ₃ /Sm _{0.2} Ce _{0.8} O ₂ anode for solid oxide fuel cells running on methane. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 16130-16139.	7.1	32
60	A performance study of hybrid direct carbon fuel cells: Impact of anode microstructure. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 11749-11755.	7.1	31
61	The enhancement of photoluminescence characteristics of Eu-doped barium strontium silicate phosphor particles by co-doping materials. <i>Journal of Alloys and Compounds</i> , 2005, 402, 246-250.	5.5	29
62	Rubbery copolymer electrolytes containing polymerized ionic liquid for dye-sensitized solar cells. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 3037-3043.	2.5	29
63	Sulfuric acid decomposition on Pt/SiC-coated-alumina catalysts for SI cycle hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 6205-6209.	7.1	29
64	Durable and High-Performance Direct-Methane Fuel Cells with Coke-Tolerant Ceria-Coated Ni Catalysts at Reduced Temperatures. <i>Electrochimica Acta</i> , 2016, 191, 677-686.	5.2	29
65	Corn-cob like nanofibres as cathode catalysts for an effective microstructure design in solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3966-3973.	10.3	29
66	Evaluation of PAN-TiO ₂ Composite Adsorbent for Removal of Pb(II) Ion in Aqueous Solution. <i>Separation Science and Technology</i> , 2003, 38, 695-713.	2.5	28
67	Avatar DNA Nanohybrid System in Chip-on-a-Phone. <i>Scientific Reports</i> , 2014, 4, 4879.	3.3	28
68	Characterization and analysis of vanadium and nickel species in atmospheric residues. <i>Fuel</i> , 2014, 117, 783-791.	6.4	27
69	Improved solid oxide fuel cell anodes for the direct utilization of methane using Sn-doped Ni/YSZ catalysts. <i>Catalysis Communications</i> , 2009, 11, 180-183.	3.3	26
70	Fabrication of anode-supported tubular Ba(Zr _{0.1} Ce _{0.7} Y _{0.2})O ₃ cell for intermediate temperature solid oxide fuel cells. <i>Ceramics International</i> , 2014, 40, 1513-1518.	4.8	26
71	A simple synthesis of magnetically modified zeolite. <i>Powder Technology</i> , 2007, 177, 99-101.	4.2	25
72	A study on UV-curable coatings for HD-DVD: Primer and top coats. <i>Progress in Organic Coatings</i> , 2007, 59, 106-114.	3.9	25

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73	Nanocomposite proton conducting membranes based on amphiphilic PVDF graft copolymer. <i>Macromolecular Research</i> , 2010, 18, 271-278.	2.4	23
74	Performance evaluation of anode-supported Gd _{0.1} Ce _{0.9} O _{1.95} cell with electrospun La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} -Gd _{0.1} Ce _{0.9} O _{1.95} cathode. <i>Electrochimica Acta</i> , 2013, 108, 356-360.	5.2	23
75	Photocatalytic characteristics of TiO ₂ supported on SiO ₂ . <i>Research on Chemical Intermediates</i> , 2003, 29, 849-859.	2.7	22
76	Composites of Proton-Conducting Polymer Electrolyte Membrane in Direct Methanol Fuel Cells. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2007, 32, 51-66.	12.3	22
77	Proton conducting crosslinked membranes by polymer blending of triblock copolymer and poly(vinyl Tj ETQq1 1 0,784314 rgBT /Ove	2.4	22
78	Proton-conducting nanocomposite membranes based on P(VDF-co-CTFE)-g-PSSA graft copolymer and TiO ₂ -PSSA nanoparticles. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 1820-1827.	7.1	22
79	Nano-Composite Ni-Gd _{0.1} Ce _{0.9} O _{1.95} Anode Functional Layer for Low Temperature Solid Oxide Fuel Cells. <i>Electrochimica Acta</i> , 2014, 129, 100-106.	5.2	22
80	Effects of Microwave Treatment on Carbon Electrode for Vanadium Redox Flow Battery. <i>ChemElectroChem</i> , 2015, 2, 872-876.	3.4	22
81	Effects of 8mol% yttria-stabilized zirconia with copper oxide on solid oxide fuel cell performance. <i>Ceramics International</i> , 2015, 41, 7982-7988.	4.8	22
82	Optimization of the Pd-Fe-Mo Catalysts for Oxygen Reduction Reaction in Proton-Exchange Membrane Fuel Cells. <i>Electrochimica Acta</i> , 2016, 220, 29-35.	5.2	22
83	A study on UV-curable adhesives for optical pick-up: II. Silane coupling agent effect. <i>International Journal of Adhesion and Adhesives</i> , 2005, 25, 534-542.	2.9	21
84	Properties of Cu, Ni, and V doped-LaCrO ₃ interconnect materials prepared by pechini, ultrasonic spray pyrolysis and glycine nitrate processes for SOFC. <i>Journal of Electroceramics</i> , 2006, 17, 723-727.	2.0	21
85	Combinatorial investigation of Pt-Ru-M as anode electrocatalyst for direct methanol fuel cell. <i>Catalysis Today</i> , 2006, 111, 176-181.	4.4	21
86	Direct spun aligned carbon nanotube web-reinforced proton exchange membranes for fuel cells. <i>RSC Advances</i> , 2014, 4, 32787-32790.	3.6	21
87	Silicon carbide fiber-reinforced composite membrane for high-temperature and low-humidity polymer exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 16474-16485.	7.1	21
88	Water sorption and activation energy in polyimide thin films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000, 38, 2714-2720.	2.1	20
89	Enhancement of catalytic durability through nitrogen-doping treatment on the CNF-derivatized ACF support for high temperature PEMFC. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 6864-6876.	7.1	20
90	Synthesis and characterization of sulfonated polyimides containing aliphatic linkages in the main chain. <i>Polymer International</i> , 2006, 55, 1236-1242.	3.1	19

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91	Synthesis and characterization of grafted/crosslinked proton conducting membranes based on amphiphilic PVDF copolymer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 1110-1117.	2.1	19
92	Nitrogen-doped ordered porous carbon catalyst for oxygen reduction reaction in proton exchange membrane fuel cells. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 2567-2577.	2.5	19
93	Harnessing Strong Metal-Support Interaction to Proliferate the Dry Reforming of Methane Performance by In Situ Reduction. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 12140-12148.	8.0	19
94	Preparation of ZSM-5 zeolite film and its formation mechanism. <i>Journal of Membrane Science</i> , 2001, 191, 189-197.	8.2	18
95	Preparation of TiO ₂ /SiO ₂ hollow spheres and their activity in methylene blue photodecomposition. <i>Korean Journal of Chemical Engineering</i> , 2007, 24, 596-599.	2.7	18
96	A novel cathodic electrolyte based on H ₂ C ₂ O ₄ for a stable vanadium redox flow battery with high charge-discharge capacities. <i>RSC Advances</i> , 2013, 3, 21347.	3.6	18
97	Highly dispersed nickel catalyst promoted by precious metals for CO selective methanation. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 10033-10040.	7.1	18
98	Synthesis of Durable Small-sized Bilayer Au@Pt Nanoparticles for High Performance PEMFC Catalysts. <i>Electrochimica Acta</i> , 2017, 228, 389-397.	5.2	18
99	Effects of porous and dense electrode structures of membrane electrode assembly on durability of direct methanol fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 15313-15322.	7.1	17
100	Electrochemical characteristics of electrospun La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} -Gd _{0.1} Ce _{0.9} O _{1.95} cathode. <i>Ceramics International</i> , 2014, 40, 8053-8060.	4.8	17
101	Doping effect of boron and phosphorus on nitrogen-based mesoporous carbons as electrocatalysts for oxygen reduction reaction in acid media. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 645-655.	2.5	17
102	Transparent Bendable Secondary Zinc-Air Batteries by Controlled Void Ionic Separators. <i>Scientific Reports</i> , 2019, 9, 3175.	3.3	17
103	Preparation and photocatalytic properties of Cr/Ti hollow spheres. <i>Materials Chemistry and Physics</i> , 2008, 108, 154-159.	4.0	16
104	Effect of Calcination Temperature on the Activity and Cobalt Crystallite Size of Fischer-Tropsch Co-Ru-Zr/SiO ₂ Catalyst. <i>Catalysis Letters</i> , 2009, 129, 233-239.	2.6	16
105	Enhancement of electrochemical properties through high-temperature treatment of CNF grown on ACF support for PEMFC. <i>Electrochimica Acta</i> , 2014, 134, 49-54.	5.2	16
106	Effect of number of cross-linkable sites on proton conducting, pore-filling membranes. <i>Journal of Membrane Science</i> , 2014, 460, 178-184.	8.2	16
107	Autothermal reforming of heavy-hydrocarbon fuels by morphology controlled perovskite catalysts using carbon templates. <i>Fuel</i> , 2017, 187, 446-456.	6.4	16
108	Heteropolyacid (H ₃ PW ₁₂ O ₄₀) Incorporated Solid Polymer Electrolyte for PEMFC. <i>Electrochemistry</i> , 1996, 64, 743-748.	0.3	16

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109	Direct methane fuel cell with La ₂ Sn ₂ O ₇ •Ni•Gd _{0.1} Ce _{0.9} O _{1.95} anode and electrospun La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O ₃ •Gd _{0.1} Ce _{0.9} O _{1.95} cathode. RSC Advances, 2013, 3, 11816.	3.6	15
110	Poly(ether imide) nanofibrous web composite membrane with SiO ₂ /heteropolyacid ionomer for durable and high-temperature polymer electrolyte membrane (PEM) fuel cells. Journal of Industrial and Engineering Chemistry, 2019, 74, 7-13.	5.8	15
111	Preparation of transparent ts-1 zeolite film and its photocatalytic isomerization under uv irradiation. Korean Journal of Chemical Engineering, 1997, 14, 213-215.	2.7	14
112	Preparation of PAN-zeolite 4A composite ion exchanger and its uptake behavior for Sr and Cs ions in acid solution. Korean Journal of Chemical Engineering, 2002, 19, 838-842.	2.7	14
113	Mechanism of manganese (mono and di) telluride thin-film formation and properties. Physica B: Condensed Matter, 2007, 390, 314-319.	2.7	14
114	Proton conducting crosslinked polymer electrolyte membranes based on SBS block copolymer. Journal of Applied Polymer Science, 2011, 121, 3283-3291.	2.6	14
115	A study on the electrochemical performance of 100-cm ² class direct carbon-molten carbonate fuel cell (DC-MCFC). International Journal of Hydrogen Energy, 2015, 40, 5144-5149.	7.1	14
116	Platinum catalysts protected by N-doped carbon for highly efficient and durable polymer-electrolyte membrane fuel cells. Electrochimica Acta, 2016, 193, 191-198.	5.2	14
117	Characteristics of Ba(Zr _{0.1} Ce _{0.7} Y _{0.2})O ₃ • nano-powders synthesized by different wet-chemical methods for solid oxide fuel cells. Ceramics International, 2018, 44, 433-437.	4.8	14
118	Photocatalytic activity of metal ion (Fe or W) doped titania. Korean Journal of Chemical Engineering, 2001, 18, 914-918.	2.7	13
119	Pseudopolymorphic Crystallization of l-Ornithine-l-Aspartate by Drowning Out. Industrial & Engineering Chemistry Research, 2003, 42, 883-889.	3.7	13
120	Methanol Reforming Processes. Advances in Fuel Cells, 2007, , 419-472.	0.9	13
121	Fe ₃ O ₄ @ Polypyrrole Core•Shell Nanohybrid for Efficient DNA Retrieval. Journal of Nanoscience and Nanotechnology, 2008, 8, 5014-5017.	0.9	13
122	Pt Nanoparticle-Reduced Graphene Oxide Nanohybrid for Proton Exchange Membrane Fuel Cells. Journal of Nanoscience and Nanotechnology, 2012, 12, 5669-5672.	0.9	13
123	Fabrication of Surface•Patterned Membranes by Means of a ZnO Nanorod Templating Method for Polymer Electrolyte Membrane Fuel•Cell Applications. ChemPlusChem, 2014, 79, 1109-1115.	2.8	13
124	Synthesis and application of hexagonal perovskite BaNiO ₃ with quadrivalent nickel under atmospheric and low-temperature conditions. Chemical Communications, 2016, 52, 10731-10734.	4.1	13
125	Influence of iron precursors on catalytic wet oxidation of H ₂ S to sulfur over Fe/MgO catalysts. Journal of Molecular Catalysis A, 2005, 239, 64-67.	4.8	12
126	Solvent screening for the separation of ethylbenzene and p-xylene by extractive distillation. Korean Journal of Chemical Engineering, 2014, 31, 1824-1830.	2.7	12

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127	Performance of a MEA using patterned membrane with a directly coated electrode by the bar-coating method in a direct methanol fuel cell. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 11386-11396.	7.1	12
128	Application of GDC-YDB bilayer and LSM-YDB cathode for intermediate temperature solid oxide fuel cells. <i>Journal of Electroceramics</i> , 2013, 31, 231-237.	2.0	11
129	Radiation-induced crosslinking of poly(styrene- <i>b</i> -butadiene- <i>b</i> -styrene) block copolymers and their sulfonation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 316, 71-75.	1.4	11
130	Pd catalyzed Sr _{0.92} Y _{0.08} TiO ₃ /Sm _{0.2} Ce _{0.8} O ₂ anodes in solid oxide fuel cells. <i>Ceramics International</i> , 2014, 40, 8237-8244.	4.8	11
131	Thermally stable imidazole/heteropoly acid composite as a heterogeneous catalyst for m-xylene ammoxidation. <i>Research on Chemical Intermediates</i> , 2021, 47, 287-302.	2.7	11
132	Magnesium oxide as an effective catalyst in catalytic wet oxidation of H ₂ S to sulfur. <i>Reaction Kinetics and Catalysis Letters</i> , 2004, 82, 241-246.	0.6	10
133	Liquid-phase oxidation of hydrogen sulfide to sulfur over CuO/MgO catalyst. <i>Reaction Kinetics and Catalysis Letters</i> , 2005, 87, 115-120.	0.6	10
134	Characterization of Au/MnO _x /TiO ₂ for Photocatalytic Oxidation of Carbon Monoxide. <i>Topics in Catalysis</i> , 2008, 47, 109-115.	2.8	10
135	Investigation of a non-noble composite catalyst for hydrogen release control of ammonia-borane. <i>Research on Chemical Intermediates</i> , 2008, 34, 709-715.	2.7	10
136	Proton conducting grafted/crosslinked membranes prepared from poly(vinylidene fluoride) (PVDF) and sulfonated poly(ether ether sulfone) (SPES). <i>Journal of Membrane Science</i> , 2010, 358, 1434-1441.	3.2	10
137	Facile isomerization of glucose into fructose using anion-exchange resins in organic solvents and application to direct conversion of glucose into furan compounds. <i>Research on Chemical Intermediates</i> , 2017, 43, 5495-5506.	2.7	10
138	Efficient methane reforming at proper reaction environment for the highly active and stable fibrous perovskite catalyst. <i>Fuel</i> , 2017, 207, 493-502.	6.4	10
139	Positional influence of Ru on Perovskite structured catalysts for efficient H ₂ production process by heavy-hydrocarbon source. <i>Applied Catalysis A: General</i> , 2019, 582, 117111.	4.3	10
140	Crystal growth of high silica ZSM-5 at low temperature synthesis conditions. <i>Korean Journal of Chemical Engineering</i> , 1996, 13, 144-149.	2.7	9
141	Representation of Solid-Liquid Equilibrium of Ornithine-H-Aspartate + Water + Methanol System Using the Chen Model for Mixed-Solvent Electrolyte Solution. <i>Journal of Chemical & Engineering Data</i> , 2001, 46, 1387-1391.	1.9	9
142	Preparation of poly(vinylidene fluoride) nanocomposite membranes based on graft polymerization and sol-gel process for polymer electrolyte membrane fuel cells. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 1405-1414.	2.5	9
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