Suk Won Cha

List of Publications by Year
in descending order

185 papers	3,720 citations	136950 32 h-index	214800 47 g-index
190 all docs	190 docs citations	190 times ranked	2695 citing authors

#	Article	IF	Citations
1	Optimal Equivalent Fuel Consumption for Hybrid Electric Vehicles. IEEE Transactions on Control Systems Technology, 2012, 20, 817-825.	5.2	128
2	Plasma-Enhanced Atomic Layer Deposition of Nanoscale Yttria-Stabilized Zirconia Electrolyte for Solid Oxide Fuel Cells with Porous Substrate. ACS Applied Materials & Interfaces, 2015, 7, 2998-3002.	8.0	103
3	Optimal control in the power management of fuel cell hybrid vehicles. International Journal of Hydrogen Energy, 2012, 37, 655-663.	7.1	93
4	Bendable polymer electrolyte fuel cell using highly flexible Ag nanowire percolation network current collectors. Journal of Materials Chemistry A, 2013, 1, 8541.	10.3	90
5	Ultrathin YSZ Coating on Pt Cathode for High Thermal Stability and Enhanced Oxygen Reduction Reaction Activity. Advanced Energy Materials, 2015, 5, 1402251.	19.5	89
6	Review of solid oxide electrolysis cells: a clean energy strategy for hydrogen generation. Nanomaterials and Energy, 2019, 8, 2-22.	0.2	73
7	Performance enhancement in bendable fuel cell using highly conductive Ag nanowires. International Journal of Hydrogen Energy, 2014, 39, 7422-7427.	7.1	69
8	Comparative Analysis of Energy Management Strategies for HEV: Dynamic Programming and Reinforcement Learning. IEEE Access, 2020, 8, 67112-67123.	4.2	66
9	Realization of pmp-based control for hybrid electric vehicles in a backward-looking simulation. International Journal of Automotive Technology, 2014, 15, 625-635.	1.4	59
10	From design for manufacturing (DFM) to manufacturing for design (MFD) via hybrid manufacturing and smart factory: A review and perspective of paradigm shift. International Journal of Precision Engineering and Manufacturing - Green Technology, 2016, 3, 209-222.	4.9	59
11	Thin Film Solid Oxide Fuel Cells Operating Below 600Â°C: A Review. International Journal of Precision Engineering and Manufacturing - Green Technology, 2018, 5, 441-453.	4.9	58
12	Ionic Radii and Concentration Dependency of RE³⁺ (Eu³⁺, Nd³⁺,) Tj ETQq0 0 0 rgBT /Overlock 1 Multienzyme-Mimetic and Hydroxyl Radical Scavenging Activity. Journal of Physical Chemistry C, 2019, 123, 541-553.	3.1	56
13	Experimental study on enhancing the fuel efficiency of an anodic dead-end mode polymer electrolyte membrane fuel cell by oscillating the hydrogen. International Journal of Hydrogen Energy, 2010, 35, 12469-12479.	7.1	54
14	Fabrication of low-temperature solid oxide fuel cells with a nanothin protective layer by atomic layer deposition. Nanoscale Research Letters, 2013, 8, 48.	5.7	54
15	High-performance thin film solid oxide fuel cells with scandia-stabilized zirconia (ScSZ) thin film electrolyte. International Journal of Hydrogen Energy, 2015, 40, 15704-15708.	7.1	54
16	An experimental study on the purge characteristics of the cathodic dead-end mode PEMFC for the submarine or aerospace applications and performance improvement with the pulsation effects. International Journal of Hydrogen Energy, 2010, 35, 3698-3711.	7.1	48
17	Engineering of the electrode structure of thin film solid oxide fuel cells. Thin Solid Films, 2015, 584, 125-129.	1.8	46
18	Characterization of porous Pt films deposited via sputtering. Applied Surface Science, 2013, 282, 463-466.	6.1	45

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19	Flexible fuel cell using stiffness-controlled endplate. International Journal of Hydrogen Energy, 2016, 41, 6013-6019.	7.1	45
20	Transient modeling and validation of lithium ion battery pack with air cooled thermal management system for electric vehicles. International Journal of Automotive Technology, 2014, 15, 795-803.	1.4	43
21	Atomic layer deposition of yttria-stabilized zirconia thin films for enhanced reactivity and stability of solid oxide fuel cells. Energy, 2016, 116, 170-176.	8.8	42
22	Model-Based Reinforcement Learning for Eco-Driving Control of Electric Vehicles. IEEE Access, 2020, 8, 202886-202896.	4.2	42
23	Application of dense nano-thin platinum films for low-temperature solid oxide fuel cells by atomic layer deposition. International Journal of Hydrogen Energy, 2014, 39, 12402-12408.	7.1	41
24	PMP-based power management strategy of fuel cell hybrid vehicles considering multi-objective optimization. International Journal of Precision Engineering and Manufacturing, 2013, 14, 845-853.	2.2	40
25	The influence of size scale on the performance of fuel cells. Solid State Ionics, 2004, 175, 789-795.	2.7	37
26	Platinum-based nanocomposite electrodes for low-temperature solid oxide fuel cells with extended lifetime. Journal of Power Sources, 2016, 307, 289-296.	7.8	37
27	Energy management strategy of hybrid electric vehicle using battery state of charge trajectory information. International Journal of Precision Engineering and Manufacturing - Green Technology, 2017, 4, 79-86.	4.9	37
28	Fabrication of the large area thin-film solid oxide fuel cells. CIRP Annals - Manufacturing Technology, 2014, 63, 513-516.	3.6	36
29	Electrochemical impedance investigation of flooding in micro-flow channels for proton exchange membrane fuel cells. Journal of Power Sources, 2006, 161, 138-142.	7.8	34
30	Thin-Film SOFCs Using Gastight YSZ Thin Films on Nanoporous Substrates. Journal of the Electrochemical Society, 2006, 153, A431.	2.9	34
31	A rollable ultra-light polymer electrolyte membrane fuel cell. NPG Asia Materials, 2017, 9, e384-e384.	7.9	34
32	High performance Bi-layered electrolytes via atomic layer deposition for solid oxide fuel cells. Journal of Power Sources, 2014, 253, 114-122.	7.8	33
33	Component sizing and engine optimal operation line analysis for a plug-in hybrid electric transit bus. International Journal of Automotive Technology, 2013, 14, 459-469.	1.4	32
34	Real-time application of Pontryaginâ€™s Minimum Principle to fuel cell hybrid buses based on driving characteristics of buses. International Journal of Precision Engineering and Manufacturing - Green Technology, 2017, 4, 199-209.	4.9	32
35	Effect of assembly pressure on the performance of a bendable polymer electrolyte fuel cell based on a silver nanowire current collector. Energy, 2017, 134, 412-419.	8.8	32
36	Performance variation of bendable polymer electrolyte fuel cell based on Ag nanowire current collector under mixed bending and twisting load. International Journal of Hydrogen Energy, 2017, 42, 1884-1890.	7.1	32

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37	A soft actor-critic-based energy management strategy for electric vehicles with hybrid energy storage systems. Journal of Power Sources, 2022, 524, 231099.	7.8	32
38	Energy efficient speed planning of electric vehicles for car-following scenario using model-based reinforcement learning. Applied Energy, 2022, 313, 118460.	10.1	32
39	Engine operation for the planetary gear hybrid powertrain. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2006, 220, 1727-1735.	1.9	30
40	Performance evaluation of passive direct methanol fuel cell with methanol vapour supplied through a flow channel. Journal of Power Sources, 2008, 184, 9-15.	7.8	30
41	Online Data-Driven Energy Management of a Hybrid Electric Vehicle Using Model-Based Q-Learning. IEEE Access, 2020, 8, 84444-84454.	4.2	30
42	Nanostructuring methods for enhancing light absorption rate of Si-based photovoltaic devices: A review. International Journal of Precision Engineering and Manufacturing - Green Technology, 2014, 1, 67-74.	4.9	29
43	Ultra compact direct hydrogen fuel cell prototype using a metal hydride hydrogen storage tank for a mobile phone. Applied Energy, 2014, 134, 382-391.	10.1	29
44	Effect of anode morphology on the performance of thin film solid oxide fuel cell with PEALD YSZ electrolyte. International Journal of Hydrogen Energy, 2016, 41, 9638-9643.	7.1	29
45	Durable graphene-coated bipolar plates for polymer electrolyte fuel cells. International Journal of Hydrogen Energy, 2017, 42, 27350-27353.	7.1	29
46	Optimal operation of the power-split hybrid electric vehicle powertrain. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2008, 222, 789-800.	1.9	28
47	Recent Advances of First d-Block Metal-Based Perovskite Oxide Electrocatalysts for Alkaline Water Splitting. Catalysts, 2020, 10, 770.	3.5	28
48	Thin film solid oxide fuel cell using a pinhole-free and dense Y-doped BaZrO3. Thin Solid Films, 2013, 534, 286-290.	1.8	27
49	The role of vacuum based technologies in solid oxide fuel cell development to utilize industrial waste carbon for power production. Renewable and Sustainable Energy Reviews, 2021, 142, 110803.	16.4	27
50	A study on properties of yttrium-stabilized zirconia thin films fabricated by different deposition techniques. Renewable Energy, 2014, 65, 202-206.	8.9	26
51	A thermally self-sustaining solid oxide fuel cell system at ultra-low operating temperature (319ÂÂ°C). Energy, 2016, 104, 107-113.	8.8	25
52	Reinforcement Learning Based on Equivalent Consumption Minimization Strategy for Optimal Control of Hybrid Electric Vehicles. IEEE Access, 2021, 9, 860-871.	4.2	25
53	Development of PMP-based power management strategy for a parallel hybrid electric bus. International Journal of Precision Engineering and Manufacturing, 2014, 15, 345-353.	2.2	24
54	Atomic layer deposition of ultrathin blocking layer for low-temperature solid oxide fuel cell on nanoporous substrate. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, .	2.1	24

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55	Co-state variable determination in Pontryaginâ€™s Minimum Principle for energy management of hybrid vehicles. International Journal of Precision Engineering and Manufacturing, 2016, 17, 1215-1222.	2.2	24
56	PEALD YSZ-based bilayer electrolyte for thin film-solid oxide fuel cells. Nanotechnology, 2016, 27, 415402.	2.6	24
57	Substrate-dependent growth of nanothin film solid oxide fuel cells toward cost-effective nanostructuring. International Journal of Precision Engineering and Manufacturing - Green Technology, 2016, 3, 35-39.	4.9	24
58	Thermally stable Ag@ZrO 2 core-shell via atomic layer deposition. Materials Letters, 2017, 188, 372-374.	2.6	24
59	Energy Management Strategy of Fuel Cell Electric Vehicles Using Model-Based Reinforcement Learning With Data-Driven Model Update. IEEE Access, 2021, 9, 59244-59254.	4.2	24
60	Fuel economy evaluation of fuel cell hybrid vehicles based on optimal control. International Journal of Automotive Technology, 2012, 13, 517-522.	1.4	23
61	Effect of the thickness of sputtered gadolinia-doped ceria as a cathodic interlayer in solid oxide fuel cells. Thin Solid Films, 2015, 584, 120-124.	1.8	22
62	Effect of plasma-enhanced atomic layer deposited YSZ inter-layer on cathode interface of GDC electrolyte in thin film solid oxide fuel cells. Renewable Energy, 2019, 144, 123-128.	8.9	22
63	Robust PV-BESS Scheduling for a Grid With Incentive for Forecast Accuracy. IEEE Transactions on Sustainable Energy, 2022, 13, 567-578.	8.8	22
64	Air-breathing flexible Polydimethylsiloxane (PDMS)-based fuel cell. International Journal of Precision Engineering and Manufacturing, 2013, 14, 501-504.	2.2	21
65	A nanoporous substrate-based low temperature solid oxide fuel cell using a thin film Ni anode. Thin Solid Films, 2018, 666, 177-181.	1.8	21
66	Operational condition analysis for vapor-fed direct methanol fuel cells. Journal of Power Sources, 2009, 188, 205-212.	7.8	20
67	Power source sizing of fuel cell hybrid vehicles considering vehicle performance and cost. International Journal of Precision Engineering and Manufacturing, 2014, 15, 527-533.	2.2	20
68	Evaluation of regenerative braking effect for E-REV bus according to characteristic of driving cycle. International Journal of Precision Engineering and Manufacturing - Green Technology, 2015, 2, 149-155.	4.9	20
69	Performance enhancement of thin film LSCF cathodes by gold current collecting layer. International Journal of Precision Engineering and Manufacturing - Green Technology, 2016, 3, 185-188.	4.9	20
70	Low-temperature, high-performance thin-film solid oxide fuel cells with tailored nano-column structures of a sputtered Ni anode. Journal of Materials Chemistry A, 2020, 8, 21668-21679.	10.3	20
71	A Speedy Reinforcement Learning-Based Energy Management Strategy for Fuel Cell Hybrid Vehicles Considering Fuel Cell System Lifetime. International Journal of Precision Engineering and Manufacturing - Green Technology, 2022, 9, 859-872.	4.9	20
72	Structural and compositional analysis of solid oxide fuel cell electrolytes using transmission electron microscopy. International Journal of Precision Engineering and Manufacturing, 2012, 13, 1273-1279.	2.2	19

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73	Effects of carbon contaminations on Y2O3-stabilized ZrO2 thin film electrolyte prepared by atomic layer deposition for thin film solid oxide fuel cells. CIRP Annals - Manufacturing Technology, 2016, 65, 515-518.	3.6	19
74	Optimization of power management among an engine, battery and ultra-capacitor for a series HEV: A dynamic programming application. International Journal of Automotive Technology, 2017, 18, 891-900.	1.4	19
75	Plasma Driven Exsolution for Nanoscale Functionalization of Perovskite Oxides. Small Methods, 2021, 5, e2100868.	8.6	19
76	The effect of battery temperature on total fuel consumption ofÂfuel cell hybrid vehicles. International Journal of Hydrogen Energy, 2013, 38, 5192-5200.	7.1	18
77	Pulsed laser deposition of Y-doped BaZrO 3 thin film as electrolyte for low temperature solid oxide fuel cells. CIRP Annals - Manufacturing Technology, 2013, 62, 563-566.	3.6	18
78	Multi-component nano-composite electrode for SOFCS via thin film technique. Renewable Energy, 2014, 65, 130-136.	8.9	18
79	A predictive driving control strategy of electric vehicles for energy saving. International Journal of Precision Engineering and Manufacturing, 2015, 16, 197-202.	2.2	18
80	Doped ceria anode interlayer for low-temperature solid oxide fuel cells with nanothin electrolyte. Thin Solid Films, 2015, 591, 250-254.	1.8	18
81	Optimization of Y2O3 dopant concentration of yttria stabilized zirconia thin film electrolyte prepared by plasma enhanced atomic layer deposition for high performance thin film solid oxide fuel cells. Energy, 2019, 173, 436-442.	8.8	18
82	Three dimensional YSZ interface engineering layer for enhancement of oxygen reduction reactions of low temperature solid oxide fuel cells. Ceramics International, 2020, 46, 12648-12655.	4.8	18
83	A Study of Anode-Supported Solid Oxide Fuel Cell Modeling and Optimization Using Neural Network and Multi-Armed Bandit Algorithm. Energies, 2020, 13, 1621.	3.1	18
84	A Deep Reinforcement Learning-Based Energy Management Strategy for Fuel Cell Hybrid Buses. International Journal of Precision Engineering and Manufacturing - Green Technology, 2022, 9, 885-897.	4.9	18
85	Low temperature solid oxide fuel cells with proton-conducting Y:BaZrO3 electrolyte on porous anodic aluminum oxide substrate. Thin Solid Films, 2013, 544, 125-128.	1.8	17
86	Properties of nanostructured undoped ZrO2 thin film electrolytes by plasma enhanced atomic layer deposition for thin film solid oxide fuel cells. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, 01A151.	2.1	17
87	Sufficient conditions for optimal energy management strategies of fuel cell hybrid electric vehicles based on Pontryaginâ€™s minimum principle. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2016, 230, 202-214.	1.9	17
88	A Review of Optimal Energy Management Strategies Using Machine Learning Techniques for Hybrid Electric Vehicles. International Journal of Automotive Technology, 2021, 22, 1437-1452.	1.4	17
89	An objective method of driveability evaluation using a simulation model for hybrid electric vehicles. International Journal of Precision Engineering and Manufacturing, 2014, 15, 219-226.	2.2	16
90	Surface engineering of nanoporous substrate for solid oxide fuel cells with atomic layer-deposited electrolyte. Beilstein Journal of Nanotechnology, 2015, 6, 1805-1810.	2.8	16

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91	Effect of ultra-thin SnO2 coating on Pt catalyst for energy applications. International Journal of Precision Engineering and Manufacturing, 2016, 17, 691-694.	2.2	16
92	Integrated design of a Ni thin-film electrode on a porous alumina template for affordable and high-performance low-temperature solid oxide fuel cells. RSC Advances, 2017, 7, 23600-23606.	3.6	16
93	Nickel-based bilayer thin-film anodes for low-temperature solid oxide fuel cells. Energy, 2018, 161, 1133-1138.	8.8	16
94	Analysis of operational characteristics of polymer electrolyte fuel cell with expanded graphite flow-field plates via electrochemical impedance investigation. Energy, 2014, 66, 77-81.	8.8	15
95	Structure dependent luminescence, peroxidase mimetic and hydrogen peroxide sensing of samarium doped cerium phosphate nanorods. Journal of Materials Chemistry B, 2018, 6, 6559-6571.	5.8	15
96	Characterization of atomic layer deposited and sputtered yttria-stabilized-zirconia thin films for low-temperature solid oxide fuel cells. International Journal of Precision Engineering and Manufacturing, 2015, 16, 2229-2234.	2.2	14
97	Repetitive bending test of membrane electrode assembly for bendable polymer electrolyte membrane fuel cell. Journal of Industrial and Engineering Chemistry, 2017, 47, 323-328.	5.8	14
98	Scalable fabrication process of thin-film solid oxide fuel cells with an anode functional layer design and a sputtered electrolyte. International Journal of Hydrogen Energy, 2020, 45, 33980-33992.	7.1	14
99	Nanoporous nickel thin film anode optimization for low-temperature solid oxide fuel cells. International Journal of Hydrogen Energy, 2021, 46, 36445-36453.	7.1	14
100	Performance enhancement of thin-film ceramic electrolyte fuel cell using bi-layered yttrium-doped barium zirconate. Thin Solid Films, 2013, 539, 117-121.	1.8	13
101	Development of an evaluation method for quantitative driveability in heavy-duty vehicles. Journal of Mechanical Science and Technology, 2014, 28, 1615-1621.	1.5	13
102	Comparison of PMP and DP in fuel cell hybrid vehicles. International Journal of Automotive Technology, 2014, 15, 117-123.	1.4	13
103	Characterization of thin film solid oxide fuel cells with variations in the thickness of nickel oxide-gadolinia doped ceria anode. International Journal of Precision Engineering and Manufacturing, 2016, 17, 1079-1083.	2.2	13
104	The Operation Characteristics of MEAs with Pinholes for Polymer Electrolyte Membrane Fuel Cells. Electrochemical and Solid-State Letters, 2008, 11, B153.	2.2	12
105	Graphite foil based assembled bipolar plates for polymer electrolyte fuel cells. International Journal of Precision Engineering and Manufacturing, 2012, 13, 2183-2186.	2.2	12
106	Post-Annealing of Thin-Film Yttria Stabilized Zirconia Electrolytes for Anode-Supported Low-Temperature Solid Oxide Fuel Cells. Journal of Nanoscience and Nanotechnology, 2014, 14, 9294-9299.	0.9	12
107	Pulsed laser deposition of BaCo0.4Fe0.4Zr0.1Y0.1O3-Î´ cathode for solid oxide fuel cells. Surface and Coatings Technology, 2019, 369, 265-268.	4.8	12
108	A Hybrid Energy Storage System for an Electric Vehicle and Its Effectiveness Validation. International Journal of Precision Engineering and Manufacturing - Green Technology, 2021, 8, 1739-1754.	4.9	12

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109	Optimization of ScSZ/GDC bilayer thin film electrolyte for anodic aluminum oxide supported low temperature solid oxide fuel cells. Nanotechnology, 2018, 29, 345401.	2.6	11
110	Effects of Nanoscale PEALD YSZ Interlayer for AAO Based Thin Film Solid Oxide Fuel Cells. International Journal of Precision Engineering and Manufacturing - Green Technology, 2020, 7, 423-430.	4.9	11
111	Ultrathin sputtered platinumâ€“gadolinium doped ceria cathodic interlayer for enhanced performance of low temperature solid oxide fuel cells. International Journal of Hydrogen Energy, 2020, 45, 32442-32448.	7.1	11
112	Metal-coated polycarbonate monopolar plates for portable fuel cells. International Journal of Hydrogen Energy, 2012, 37, 18471-18475.	7.1	10
113	Characteristic behaviors on air-breathing direct methanol fuel cells. International Journal of Precision Engineering and Manufacturing, 2012, 13, 1141-1144.	2.2	10
114	Influence of a platinum functional layer on a Ni-Ce0.9Gd0.1O1.95 anode for thin-film solid oxide fuel cells. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, 05E120.	2.1	10
115	Au-Coated Lanthanum Strontium Cobalt Ferrite Cathode for Lowering Sheet Resistance of a Solid Oxide Fuel Cell. International Journal of Precision Engineering and Manufacturing, 2019, 20, 451-455.	2.2	10
116	Validation of defect association energy on modulating oxygen ionic conductivity in low temperature solid oxide fuel cell. Journal of Power Sources, 2020, 480, 229106.	7.8	10
117	Tailoring 3D structured nanofibrous nickel/gadolinium-doped ceria anodes for high-performance thin-film solid oxide fuel cells. Journal of Power Sources, 2022, 531, 231320.	7.8	10
118	Temperature prediction model of wet clutch in coupling. , 2011, , .		9
119	Parametric study of Y-doped BaZrO3 thin film deposited via pulsed laser deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, .	2.1	9
120	Effect of 20%O 2 reactive gas on RF-sputtered Ni-SDC cermet anodes for intermediate temperature solid oxide fuel cells. Current Applied Physics, 2016, 16, 1680-1686.	2.4	9
121	Electrochemical study on the effect of catalytic current collecting layer on thin film La0.6Sr0.4Co0.8Fe0.2O3â˜Î´ (LSCF) cathode. Applied Surface Science, 2020, 509, 145224.	6.1	9
122	Fuel consumption of fuel cell hybrid vehicles considering battery SOC differences. International Journal of Automotive Technology, 2012, 13, 979-985.	1.4	8
123	Augmentation Method of Triple Phase Boundary in Thin Film Solid Oxide Fuel Cell via Physical Vapor Deposition. Journal of Nanoscience and Nanotechnology, 2013, 13, 7834-7838.	0.9	8
124	Method for estimating temperature of 4WD coupling device wet clutches in severe operating condition. International Journal of Precision Engineering and Manufacturing, 2015, 16, 185-190.	2.2	8
125	Experimentation and modelling of nanostructured nickel cermet anodes for submicron SOFCs fuelled indirectly by industrial waste carbon. Journal of Materials Chemistry A, 2018, 6, 11169-11179.	10.3	8
126	Scalable lattice-strain in preferentially oriented acceptor-doped cerium oxide film and its impact on oxygen ion transport kinetics. Electrochimica Acta, 2018, 264, 203-215.	5.2	8

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127	HEV Cruise Control Strategy on GPS (Navigation) Information. World Electric Vehicle Journal, 2009, 3, 589-596.	3.0	7
128	Influence of target to substrate distance on properties of Y-doped BaZrO3Thin films grown by pulsed laser deposition. International Journal of Precision Engineering and Manufacturing, 2013, 14, 839-843.	2.2	7
129	Development of PMP-Based Power Management Strategy for a Series Hybrid Electric Bus. , 2014, , .		7
130	Model-Based Integrated Control of Engine and CVT to Minimize Fuel Use. International Journal of Automotive Technology, 2018, 19, 687-694.	1.4	7
131	Enhanced performance of nanostructured thin film anode through Pt plasma enhanced atomic layer deposition for low temperature solid oxide fuel cells. International Journal of Hydrogen Energy, 2020, 45, 32816-32824.	7.1	7
132	A Component-Sizing Methodology for a Hybrid Electric Vehicle Using an Optimization Algorithm. Energies, 2021, 14, 3147.	3.1	7
133	Analysis of data errors in the solar photovoltaic monitoring system database: An overview of nationwide power plants in Korea. Renewable and Sustainable Energy Reviews, 2022, 156, 112007.	16.4	7
134	Effect of nanostructured grains in co-sputtered Ni-GDC thin-film anode on methane conversion kinetics for low temperature solid oxide fuel cells operating on nearly dry methane. Ceramics International, 2022, 48, 9083-9089.	4.8	7
135	Effect of nano-pinholes within ceramic electrolytes of thin-film solid oxide fuel cells. Journal of Industrial and Engineering Chemistry, 2019, 75, 108-114.	5.8	6
136	Surface Roughening of Electrolyte Membrane for Pt- and Ru-Sputtered Passive Direct Methanol Fuel Cells. Materials, 2019, 12, 3969.	2.9	6
137	PMP-based power management strategy for two-state variable FCHV systems and its optimality. International Journal of Precision Engineering and Manufacturing, 2014, 15, 769-776.	2.2	5
138	Influence of the start-up rate on the electrochemical impedance of a low-temperature solid oxide fuel cell fabricated by reactive sputtering. Thin Solid Films, 2019, 689, 137445.	1.8	5
139	Cost-effective and durable Ru-sputtered Pt/C-based membraneâ€“electrode assembly for passive direct methanol fuel cells. AIP Advances, 2019, 9, .	1.3	5
140	Effects of Microstructure of Ni Anode on Nanotemplate Based Low Temperature Solid Oxide Fuel Cells. International Journal of Precision Engineering and Manufacturing, 2020, 21, 2199-2208.	2.2	5
141	Model Based Automated Calibration for Shift Control of Automatic Transmission. International Journal of Automotive Technology, 2021, 22, 269-280.	1.4	5
142	Comparisons of the system performance for the small solid oxide fuel cell applications. Current Applied Physics, 2010, 10, S29-S33.	2.4	4
143	Designing and manufacturing of Formula SAE-Hybrid racecar for a new engineering education program. , 2010, , .		4
144	On the reduced electrical conductivity of radio-frequency sputtered doped ceria thin film by elevating the substrate temperature. Current Applied Physics, 2016, 16, 324-328.	2.4	4

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145	Enhanced Thermal Stability of Ultrathin Nanostructured Pt cathode by PdO: In Situ Nanodecoration for Low-Temperature Solid Oxide Fuel Cell. ACS Applied Energy Materials, 0, , .	5.1	4
146	Cluster Analysis to Preprocess the Building Power Usage Data Without Domain Knowledge. Journal of Electrical Engineering and Technology, 2020, 15, 685-692.	2.0	4
147	Investigation of Reducing In-Plane Resistance of Nickel Oxide-Samaria-Doped Ceria Anode in Thin-Film Solid Oxide Fuel Cells. Energies, 2020, 13, 1989.	3.1	4
148	Performance Enhancement in Thin Film Solid Oxide Fuel Cells Using Metal-Mixed Ionic Electronic Conductors Bilayer Anode. Science of Advanced Materials, 2016, 8, 11-16.	0.7	4
149	Development of Integrated Control Logic of Wheel Motor Drive Electric Bus considering Stability and Driving Performance. Transactions of the Korean Society of Automotive Engineers, 2013, 21, 40-48.	0.3	4
150	Component Sizing for Development of Novel PHEV System. Transactions of the Korean Society of Automotive Engineers, 2016, 24, 330-337.	0.3	4
151	Analysis of fuel economy and battery life depending on the types of HEV using dynamic programming. , 2013, , .		3
152	A Power Management Strategy for Hybrid Buses Using Measured Driving Route Information. , 2014, , .		3
153	Intermediate-Temperature Solid-Oxide Fuel Cells with a Gadolinium-Doped Ceria Anodic Functional Layer Deposited via Radio-Frequency Sputtering. Journal of Nanoscience and Nanotechnology, 2015, 15, 8926-8930.	0.9	3
154	Development of Vehicle Component Sizing Process Using Optimization Algorithm. , 2017, , .		3
155	Optimization of Speed Trajectory for Eco-Driving Considering Road Characteristics. , 2018, , .		3
156	A novel method to fabricate nanoporous gadolinium-doped ceria interlayer by combining wet-etching and thin film deposition. Ceramics International, 2019, 45, 23788-23793.	4.8	3
157	Effect of Microstructure Control of Thin Film Yttria Stabilized Zirconia Electrolyte for Solid Oxide Fuel Cells by Adjusting Oblique Angle and Target Substrate Distance of Sputtering Process. ECS Transactions, 2019, 91, 1097-1104.	0.5	3
158	A new approach to characterize charge transfer reaction for solid oxide fuel cell. Surface and Coatings Technology, 2019, 364, 377-382.	4.8	3
159	Evaluation of Fuel Economy and Performance for 2WD and 4WD Hybrid Electric Vehicle Based on Backward Simulation. Transactions of the Korean Society of Automotive Engineers, 2014, 22, 174-182.	0.3	3
160	A Energy Management Strategy for Hybrid Electric Vehicles Using Deep Q- Networks. Transactions of the Korean Society of Automotive Engineers, 2019, 27, 903-909.	0.3	3
161	Operating Cost Savings in the Atomic Layer Deposition Process of Ultrathin Electrolyte for Solid Oxide Fuel Cells by Applying Oxygen Plasma. International Journal of Precision Engineering and Manufacturing, 2022, 23, 573-579.	2.2	3
162	Strategies and evaluation of fuel economy in fuel cell hybrid vehicles. , 2011, , .		2

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163	Fuel economy analysis of a parallel hybrid bus using the optimal control theory. , 2011, , .		2
164	Engine clutch pressure command control for a parallel hybrid vehicle at launching when traction motor failed. , 2013, , .		2
165	Power management strategy of hybrid electric vehicle using power split ratio line control strategy based on dynamic programming. , 2015, , .		2
166	Development of Thin-Film Solid Oxide Fuel Cells Supported on Anode/Metal Substrates. ECS Transactions, 2019, 91, 931-939.	0.5	2
167	A study on the application of metalâ€“air battery to large size uninterruptible power supply with a hybrid system. JMST Advances, 2019, 1, 181-190.	1.9	2
168	Analysis of Fuel Economy Sensitivity for Parallel Hybrid Bus according to Variation of Simulation Input Parameter. Transactions of the Korean Society of Automotive Engineers, 2013, 21, 92-99.	0.3	2
169	Thin Film Process for Thin Film Solid Oxide Fuel Cells - A Review. Journal of the Korean Society for Precision Engineering, 2018, 35, 1119-1129.	0.2	2
170	Proton Transport Membranes for Fuel Cells: Polymeric versus Dense Ceramic. ECS Transactions, 2006, 3, 1059-1068.	0.5	1
171	Metal Coated Polycarbonate Bipolar Plates for Air Breathing Polymer Electrolyte Fuel Cells. ECS Transactions, 2011, 41, 1853-1859.	0.5	1
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