

Pei-Chen Su

List of Publications by Year in descending order

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Sub-second sintering process for La ₆ Sr ₄ Co ₂ Fe ₈ O _{3-δ} -gadolinium doped ceria composite cathode via a flash light irradiation method for intermediate temperature-solid oxide fuel cells. <i>Journal of Alloys and Compounds</i> , 2022, 895, 162683.	5.5	5
2	Injection-seeded high-repetition-rate short-pulse micro-laser based on upconversion nanoparticles. <i>Nanoscale</i> , 2021, 13, 878-885.	5.6	4
3	Morphological Effects of Various Silica Nanostructures on the Mechanical Properties of Printed Parts in Digital Light Projection 3D Printing. <i>ACS Applied Nano Materials</i> , 2021, 4, 4522-4531.	5.0	6
4	A rotationally focused flow (RFF) microfluidic biosensor by density difference for early-stage detectable diagnosis. <i>Scientific Reports</i> , 2021, 11, 9277.	3.3	8
5	Self-reconstructing Bessel beam created by two-photon-polymerized micro-axicon for light-sheet fluorescence microscopy. <i>Results in Physics</i> , 2021, 24, 104111.	4.1	3
6	4D printing materials for vat photopolymerization. <i>Additive Manufacturing</i> , 2021, 44, 102024.	3.0	45
7	Hygroscopic properties of particulate matter and effects of their interactions with weather on visibility. <i>Scientific Reports</i> , 2021, 11, 16401.	3.3	13
8	Inkjet-printed Ag@SDC core-shell nanoparticles as a high-performance cathode for low-temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 30853-30860.	7.1	7
9	Superior energy absorption of continuously graded microlattices by electron beam additive manufacturing. <i>Virtual and Physical Prototyping</i> , 2021, 16, 14-28.	10.4	28
10	Label-free quantitative measurement of cardiovascular dynamics in a zebrafish embryo using frequency-comb-referenced-quantitative phase imaging. <i>Journal of Biomedical Optics</i> , 2021, 26, .	2.6	1
11	High speed 4D printing of shape memory polymers with nanosilica. <i>Applied Materials Today</i> , 2020, 18, 100515.	4.3	77
12	Moisture-dependent electrochemical characterization of Ba _{0.2} Sr _{1.8} Fe _{1.5} Mo _{0.5} O _{6-δ} as the fuel electrode for solid oxide electrolysis cells (SOECs). <i>Electrochimica Acta</i> , 2020, 355, 136670.	5.2	6
13	Hydrogen Generation Using Solid Oxide Electrolysis Cells. <i>Fuel Cells</i> , 2020, 20, 644-649.	2.4	19
14	Impact of Fine Particulate Matter on Visibility at Incheon International Airport, South Korea. <i>Aerosol and Air Quality Research</i> , 2020, , 1048-1061.	2.1	18
15	Effect of Laser-derived Surface Re-melting of YSZ Electrolyte on Performance of Solid Oxide Fuel Cells. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2019, 6, 235-239.	4.9	2
16	Surface third-harmonic generation at a two-photon-polymerized micro-interferometer for real-time on-chip refractive index monitoring. <i>Optics Express</i> , 2019, 27, 29196.	3.4	4
17	Nanomaterials and technologies for low temperature solid oxide fuel cells: Recent advances, challenges and opportunities. <i>Nano Energy</i> , 2018, 45, 148-176.	16.0	363
18	A high-performance SDC-infiltrated nanoporous silver cathode with superior thermal stability for low temperature solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7357-7363.	10.3	18

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19	Redox performance of Na-modified Fe ₂ O ₃ /Al ₂ O ₃ with syngas as reducing agent in chemical looping combustion process. <i>Chemical Engineering Journal</i> , 2018, 334, 2079-2087.	12.7	40
20	SDC-Infiltrated Microporous Silver Membrane with Superior Resistance to Thermal Agglomeration for Cathode-Supported Solid Oxide Fuel Cells. <i>Energies</i> , 2018, 11, 2181.	3.1	4
21	Numerical Study on Electrochemical Performance of Low-Temperature Micro-Solid Oxide Fuel Cells with Submicron Platinum Electrodes. <i>Energies</i> , 2018, 11, 1204.	3.1	7
22	Effect of Electrolyte Thickness on Electrochemical Reactions and Thermo-Fluidic Characteristics inside a SOFC Unit Cell. <i>Energies</i> , 2018, 11, 473.	3.1	38
23	Numerical analysis of injected current effects on thermal characteristics of vertical-cavity surface-emitting laser. <i>Journal of Mechanical Science and Technology</i> , 2018, 32, 1463-1469.	1.5	1
24	Improving thermal stability of nanoporous platinum cathode at platinum/yttria-stabilized zirconia interface by oxygen plasma treatment. <i>Journal of Power Sources</i> , 2018, 396, 73-79.	7.8	6
25	Development of CNTs-filled photopolymer for projection stereolithography. <i>Rapid Prototyping Journal</i> , 2017, 23, 129-136.	3.2	26
26	Gas-tight yttria-doped barium zirconate thin film electrolyte via chemical solution deposition technique. <i>Journal of the European Ceramic Society</i> , 2017, 37, 2997-3001.	5.7	5
27	Rapid thermal processing of chemical-solution-deposited yttrium-doped barium zirconate thin films. <i>Surface and Coatings Technology</i> , 2017, 320, 213-216.	4.8	5
28	4D printing of high performance shape memory polymer using stereolithography. <i>Materials and Design</i> , 2017, 126, 219-225.	7.0	243
29	Graphene-based Oxygen Reduction Electrodes for Low Temperature Solid Oxide Fuel Cells. <i>Fuel Cells</i> , 2017, 17, 344-352.	2.4	10
30	Pulsed laser deposition of Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} thin film cathodes for low temperature solid oxide fuel cells. <i>Surface and Coatings Technology</i> , 2017, 320, 344-348.	4.8	10
31	Pulsed laser deposition of epitaxial MgO buffer layer for proton-conducting ceramic electrolytes. <i>Surface and Coatings Technology</i> , 2017, 320, 339-343.	4.8	7
32	Fabrication of yttria-doped barium zirconate electrolyte with sub-micrometer thickness via low temperature viscous flow sintering. <i>Surface and Coatings Technology</i> , 2017, 320, 432-436.	4.8	4
33	Curing characteristics of shape memory polymers in 3D projection and laser stereolithography. <i>Virtual and Physical Prototyping</i> , 2017, 12, 77-84.	10.4	64
34	Sputtered Nanoporous PtNi Thin Film Cathodes with Improved Thermal Stability for Low Temperature Solid Oxide Fuel Cells. <i>Electrochimica Acta</i> , 2017, 247, 558-563.	5.2	8
35	A functional micro-solid oxide fuel cell with a 10 nm-thick freestanding electrolyte. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18414-18419.	10.3	17
36	Morphology Effect of the ZnO Surface via Organic Etchants for Photon Extraction in III-Nitride Emitters. <i>ECS Journal of Solid State Science and Technology</i> , 2017, 6, Q13-Q17.	1.8	6

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37	Nanoporous palladium anode for direct ethanol solid oxide fuel cells with nanoscale proton-conducting ceramic electrolyte. <i>Journal of Power Sources</i> , 2017, 340, 98-103.	7.8	24
38	Inkjet-printed silver and samarium-doped ceria nanocomposite cathode for low temperature solid oxide fuel cells. , 2017, , .		1
39	3D Stereolithography of Polymer Composites Reinforced with Orientated Nanoclay. <i>Procedia Engineering</i> , 2017, 216, 1-7.	1.2	28
40	Proton-conducting Micro-solid Oxide Fuel Cells with Improved Cathode Reactions by a Nanoscale Thin Film Gadolinium-doped Ceria Interlayer. <i>Scientific Reports</i> , 2016, 6, 22369.	3.3	35
41	Spray coating of dense proton-conducting BaCe _{0.7} Zr _{0.1} Y _{0.2} O ₃ electrolyte for low temperature solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 6516-6525.	7.1	21
42	Inkjet-Printed Porous Silver Thin Film as a Cathode for a Low-Temperature Solid Oxide Fuel Cell. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 10343-10349.	8.0	33
43	Fuel cell and hydrogen technologies research, development and demonstration activities in Singapore “ An update. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 13869-13878.	7.1	29
44	A Silicon-Based Nanothin Film Solid Oxide Fuel Cell Array with Edge Reinforced Support for Enhanced Thermal Mechanical Stability. <i>Nano Letters</i> , 2016, 16, 2413-2417.	9.1	21
45	Silver as a cathode for silicon-based micro solid oxide fuel cells. , 2016, , .		0
46	Layer-structured LiNi _{0.8} Co _{0.2} O ₂ : A new triple (H ⁺ /O ₂ ^{••} /e ^{••}) conducting cathode for low temperature proton conducting solid oxide fuel cells. <i>Journal of Power Sources</i> , 2016, 306, 369-377.	7.8	176
47	Fabrication of yttrium-doped barium zirconate thin films with sub-micrometer thickness by a sol-gel spin coating method. <i>Thin Solid Films</i> , 2015, 584, 116-119.	1.8	9
48	Plasma-Enhanced Atomic Layer Deposition of Nanoscale Yttria-Stabilized Zirconia Electrolyte for Solid Oxide Fuel Cells with Porous Substrate. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 2998-3002.	8.0	103
49	Low Temperature Synthesis of Sub-micrometer Yttria-doped Barium Zirconate Thin Films by Modified Chemical Solution Deposition Technique. <i>ECS Transactions</i> , 2015, 68, 481-488.	0.5	4
50	High power Co ₃ O ₄ /ZnO p-n type piezoelectric transducer. <i>Thin Solid Films</i> , 2015, 584, 112-115.	1.8	16
51	Direct Observation of Nanoscale Pt Electrode Agglomeration at the Triple Phase Boundary. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 6036-6040.	8.0	26
52	Thermal stability and performance enhancement of nano-porous platinum cathode in solid oxide fuel cells by nanoscale ZrO ₂ capping. <i>Electrochemistry Communications</i> , 2015, 56, 65-69.	4.7	51
53	A circular membrane for nano thin film micro solid oxide fuel cells with enhanced mechanical stability. <i>Energy and Environmental Science</i> , 2015, 8, 3374-3380.	30.8	46
54	Enhanced light extraction efficiency of GaN-based LED fabricated by multi-chip array. <i>Optical Materials Express</i> , 2015, 5, 1098.	3.0	8

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55	Detection of thiocholine ions with cobalt phthalocyanine mediated screen printed electrode. International Journal of Precision Engineering and Manufacturing, 2014, 15, 2573-2579.	2.2	1
56	Biotin-Streptavidin Binding Interactions of Dielectric Filled Silicon Bulk Acoustic Resonators for Smart Label-Free Biochemical Sensor Applications. Sensors, 2014, 14, 4585-4598.	3.8	7
57	Nickel-tin solid-liquid inter-diffusion bonding. International Journal of Precision Engineering and Manufacturing, 2014, 15, 143-147.	2.2	19
58	Chemical stability study of nanoscale thin film yttria-doped barium cerate electrolyte for micro solid oxide fuel cells. Journal of Power Sources, 2014, 268, 804-809.	7.8	36
59	Nickel oxide coated carbon nanoparticles as temperature sensing materials. Materials Chemistry and Physics, 2014, 148, 305-310.	4.0	8
60	Molecular Dynamics Simulation of Oxygen Ion Diffusion in Yttria Stabilized Zirconia Single Crystals and Bicrystals. Fuel Cells, 2014, 14, 574-580.	2.4	24
61	Opportunities for Fabrication of SOFC Anode Using Selective Laser Melting. , 2014, , .		0
62	Combinatorial deposition of a dense nano-thin film YSZ electrolyte for low temperature solid oxide fuel cells. Journal of Materials Chemistry A, 2013, 1, 9645.	10.3	60
63	Conductive lithium nickel oxide thin film patterns via inkjet printing technology. Thin Solid Films, 2013, 544, 348-351.	1.8	7
64	Low temperature solid oxide fuel cells with proton-conducting Y:BaZrO ₃ electrolyte on porous anodic aluminum oxide substrate. Thin Solid Films, 2013, 544, 125-128.	1.8	17
65	Nano-patterned dual-layer ITO electrode of high brightness blue light emitting diodes using maskless wet etching. Optics Express, 2013, 21, A970.	3.4	14
66	Fabrication and strength analysis of humanoid focusing mechanism. Microelectronic Engineering, 2012, 98, 610-613.	2.4	0
67	Nanoscale membrane electrolyte array for solid oxide fuel cells. Electrochemistry Communications, 2012, 16, 77-79.	4.7	50
68	Generalized equilibrium concentration of polyvacancy: case study for trivacancy in hard-sphere crystals. Molecular Physics, 2011, 109, 2461-2470.	1.7	0
69	Stress-driven grain growth in nanocrystalline Pt thin films. Scripta Materialia, 2011, 64, 25-28.	5.2	64
70	Cup-shaped yttria-doped barium zirconate membrane fuel cell array. Microelectronic Engineering, 2011, 88, 2405-2407.	2.4	18
71	Silicon-based thin film solid oxide fuel cell array. , 2010, , .		0
72	Ion Conductivity Enhancement Effect by Introduction of Dislocations in Yttria-Stabilized Zirconia. ECS Transactions, 2008, 11, 3-8.	0.5	13

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73	Solid Oxide Fuel Cell with Corrugated Thin Film Electrolyte. Nano Letters, 2008, 8, 2289-2292.	9.1	310
74	High-Performance Ultrathin Solid Oxide Fuel Cells for Low-Temperature Operation. Journal of the Electrochemical Society, 2007, 154, B20.	2.9	456
75	Thin-Film SOFCs Using Gastight YSZ Thin Films on Nanoporous Substrates. Journal of the Electrochemical Society, 2006, 153, A431.	2.9	34
76	Thin-Film Solid Oxide Fuel Cells on Porous Nickel Substrates with Multistage Nanohole Array. Journal of the Electrochemical Society, 2006, 153, A554.	2.9	61
77	The four-step multiple stage transformation in deformed and annealed Ti ₄₉ Ni ₅₁ shape memory alloy. Acta Materialia, 2004, 52, 1117-1122.	7.9	38
78	Chemical Solution Deposition Technique of Thin-Film Ceramic Electrolytes for Solid Oxide Fuel Cells. , 0, , .		8