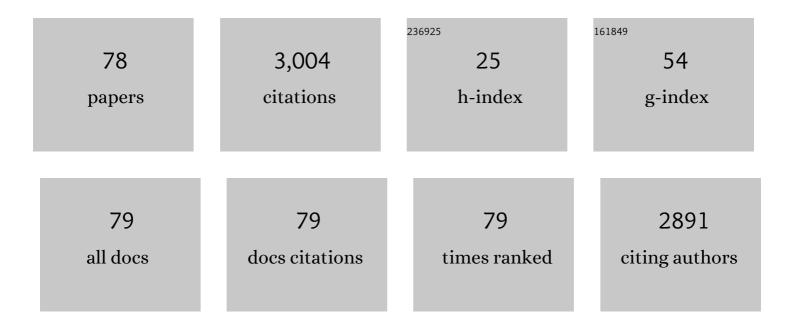
List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3277915/publications.pdf Version: 2024-02-01



DELCHEN SIL

#	Article	IF	CITATIONS
1	High-Performance Ultrathin Solid Oxide Fuel Cells for Low-Temperature Operation. Journal of the Electrochemical Society, 2007, 154, B20.	2.9	456
2	Nanomaterials and technologies for low temperature solid oxide fuel cells: Recent advances, challenges and opportunities. Nano Energy, 2018, 45, 148-176.	16.0	363
3	Solid Oxide Fuel Cell with Corrugated Thin Film Electrolyte. Nano Letters, 2008, 8, 2289-2292.	9.1	310
4	4D printing of high performance shape memory polymer using stereolithography. Materials and Design, 2017, 126, 219-225.	7.0	243
5	Layer-structured LiNi0.8Co0.2O2: A new triple (H+/O2â^'/eâ^') conducting cathode for low temperature proton conducting solid oxide fuel cells. Journal of Power Sources, 2016, 306, 369-377.	7.8	176
6	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
7	High speed 4D printing of shape memory polymers with nanosilica. Applied Materials Today, 2020, 18, 100515.	4.3	77
8	Stress-driven grain growth in nanocrystalline Pt thin films. Scripta Materialia, 2011, 64, 25-28.	5.2	64
9	Curing characteristics of shape memory polymers in 3D projection and laser stereolithography. Virtual and Physical Prototyping, 2017, 12, 77-84.	10.4	64
10	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
11	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
12	Thermal stability and performance enhancement of nano-porous platinum cathode in solid oxide fuel cells by nanoscale ZrO2 capping. Electrochemistry Communications, 2015, 56, 65-69.	4.7	51
13	Nanoscale membrane electrolyte array for solid oxide fuel cells. Electrochemistry Communications, 2012, 16, 77-79.	4.7	50
14	A circular membrane for nano thin film micro solid oxide fuel cells with enhanced mechanical stability. Energy and Environmental Science, 2015, 8, 3374-3380.	30.8	46
15	4D printing materials for vat photopolymerization. Additive Manufacturing, 2021, 44, 102024.	3.0	45
16	Redox performance of Na-modified Fe2O3/Al2O3 with syngas as reducing agent in chemical looping combustion process. Chemical Engineering Journal, 2018, 334, 2079-2087.	12.7	40
17	The four-step multiple stage transformation in deformed and annealed Ti49Ni51 shape memory alloy. Acta Materialia, 2004, 52, 1117-1122.	7.9	38
18	Effect of Electrolyte Thickness on Electrochemical Reactions and Thermo-Fluidic Characteristics inside a SOFC Unit Cell. Energies, 2018, 11, 473.	3.1	38

#	Article	IF	CITATIONS
19	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
20	Proton-conducting Micro-solid Oxide Fuel Cells with Improved Cathode Reactions by a Nanoscale Thin Film Gadolinium-doped Ceria Interlayer. Scientific Reports, 2016, 6, 22369.	3.3	35
21	Thin-Film SOFCs Using Gastight YSZ Thin Films on Nanoporous Substrates. Journal of the Electrochemical Society, 2006, 153, A431.	2.9	34
22	Inkjet-Printed Porous Silver Thin Film as a Cathode for a Low-Temperature Solid Oxide Fuel Cell. ACS Applied Materials & Interfaces, 2016, 8, 10343-10349.	8.0	33
23	Fuel cell and hydrogen technologies research, development and demonstration activities in Singapore – An update. International Journal of Hydrogen Energy, 2016, 41, 13869-13878.	7.1	29
24	3D Stereolithography of Polymer Composites Reinforced with Orientated Nanoclay. Procedia Engineering, 2017, 216, 1-7.	1.2	28
25	Superior energy absorption of continuously graded microlattices by electron beam additive manufacturing. Virtual and Physical Prototyping, 2021, 16, 14-28.	10.4	28
26	Direct Observation of Nanoscale Pt Electrode Agglomeration at the Triple Phase Boundary. ACS Applied Materials & Interfaces, 2015, 7, 6036-6040.	8.0	26
27	Development of CNTs-filled photopolymer for projection stereolithography. Rapid Prototyping Journal, 2017, 23, 129-136.	3.2	26
28	Molecular Dynamics Simulation of Oxygen Ion Diffusion in Yttria Stabilized Zirconia Single Crystals and Bicrystals. Fuel Cells, 2014, 14, 574-580.	2.4	24
29	Nanoporous palladium anode for direct ethanol solid oxide fuel cells with nanoscale proton-conducting ceramic electrolyte. Journal of Power Sources, 2017, 340, 98-103.	7.8	24
30	Spray coating of dense proton-conducting BaCe0.7Zr0.1Y0.2O3 electrolyte for low temperature solid oxide fuel cells. International Journal of Hydrogen Energy, 2016, 41, 6516-6525.	7.1	21
31	A Silicon-Based Nanothin Film Solid Oxide Fuel Cell Array with Edge Reinforced Support for Enhanced Thermal Mechanical Stability. Nano Letters, 2016, 16, 2413-2417.	9.1	21
32	Nickel-tin solid-liquid inter-diffusion bonding. International Journal of Precision Engineering and Manufacturing, 2014, 15, 143-147.	2.2	19
33	Hydrogen Generation Using Solid Oxide Electrolysis Cells. Fuel Cells, 2020, 20, 644-649.	2.4	19
34	Cup-shaped yttria-doped barium zirconate membrane fuel cell array. Microelectronic Engineering, 2011, 88, 2405-2407.	2.4	18
35	A high-performance SDC-infiltrated nanoporous silver cathode with superior thermal stability for low temperature solid oxide fuel cells. Journal of Materials Chemistry A, 2018, 6, 7357-7363.	10.3	18
36	Impact of Fine Particulate Matter on Visibility at Incheon International Airport, South Korea. Aerosol and Air Quality Research, 2020, , 1048-1061.	2.1	18

#	Article	IF	CITATIONS
37	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
38	A functional micro-solid oxide fuel cell with a 10 nm-thick freestanding electrolyte. Journal of Materials Chemistry A, 2017, 5, 18414-18419.	10.3	17
39	High power Co3O4/ZnO p–n type piezoelectric transducer. Thin Solid Films, 2015, 584, 112-115.	1.8	16
40	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
41	Ion Conductivity Enhancement Effect by Introduction of Dislocations in Yttria-Stabilized Zirconia. ECS Transactions, 2008, 11, 3-8.	0.5	13
42	Hygroscopic properties of particulate matter and effects of their interactions with weather on visibility. Scientific Reports, 2021, 11, 16401.	3.3	13
43	Grapheneâ€based Oxygen Reduction Electrodes for Low Temperature Solid Oxide Fuel Cells. Fuel Cells, 2017, 17, 344-352.	2.4	10
44	Pulsed laser deposition of Ba 0.5 Sr 0.5 Co 0.8 Fe 0.2 O 3â~'δ thin film cathodes for low temperature solid oxide fuel cells. Surface and Coatings Technology, 2017, 320, 344-348.	4.8	10
45	Fabrication of yttrium-doped barium zirconate thin films with sub-micrometer thickness by a sol–gel spin coating method. Thin Solid Films, 2015, 584, 116-119.	1.8	9
46	Nickel oxide coated carbon nanoparticles as temperature sensing materials. Materials Chemistry and Physics, 2014, 148, 305-310.	4.0	8
47	Enhanced light extraction efficiency of GaN-based LED fabricated by multi-chip array. Optical Materials Express, 2015, 5, 1098.	3.0	8
48	Sputtered Nanoporous PtNi Thin Film Cathodes with Improved Thermal Stability for Low Temperature Solid Oxide Fuel Cells. Electrochimica Acta, 2017, 247, 558-563.	5.2	8
49	Chemical Solution Deposition Technique of Thin-Film Ceramic Electrolytes for Solid Oxide Fuel Cells. , 0, , .		8
50	A rotationally focused flow (RFF) microfluidic biosensor by density difference for early-stage detectable diagnosis. Scientific Reports, 2021, 11, 9277.	3.3	8
51	Conductive lithium nickel oxide thin film patterns via inkjet printing technology. Thin Solid Films, 2013, 544, 348-351.	1.8	7
52	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
53	Pulsed laser deposition of epitaxial MgO buffer layer for proton-conducting ceramic electrolytes. Surface and Coatings Technology, 2017, 320, 339-343.	4.8	7
54	Numerical Study on Electrochemical Performance of Low-Temperature Micro-Solid Oxide Fuel Cells with Submicron Platinum Electrodes. Energies, 2018, 11, 1204.	3.1	7

#	Article	IF	CITATIONS
55	Inkjet-printed Ag@SDC core-shell nanoparticles as a high-performance cathode for low-temperature solid oxide fuel cells. International Journal of Hydrogen Energy, 2021, 46, 30853-30860.	7.1	7
56	Morphology Effect of the ZnO Surface via Organic Etchants for Photon Extraction in III-Nitride Emitters. ECS Journal of Solid State Science and Technology, 2017, 6, Q13-Q17.	1.8	6
57	Improving thermal stability of nanoporous platinum cathode at platinum/yttria-stabilized zirconia interface by oxygen plasma treatment. Journal of Power Sources, 2018, 396, 73-79.	7.8	6
58	Moisture-dependent electrochemical characterization of Ba0.2Sr1.8Fe1.5Mo0.5O6-Î′ as the fuel electrode for solid oxide electrolysis cells (SOECs). Electrochimica Acta, 2020, 355, 136670.	5.2	6
59	Morphological Effects of Various Silica Nanostructures on the Mechanical Properties of Printed Parts in Digital Light Projection 3D Printing. ACS Applied Nano Materials, 2021, 4, 4522-4531.	5.0	6
60	Gas-tight yttria-doped barium zirconate thin film electrolyte via chemical solution deposition technique. Journal of the European Ceramic Society, 2017, 37, 2997-3001.	5.7	5
61	Rapid thermal processing of chemical-solution-deposited yttrium-doped barium zirconate thin films. Surface and Coatings Technology, 2017, 320, 213-216.	4.8	5
62	Sub-second sintering process for La6Sr4Co2Fe8O3-δ-gadolinium doped ceria composite cathode via a flash light irradiation method for intermediate temperature-solid oxide fuel cells. Journal of Alloys and Compounds, 2022, 895, 162683.	5.5	5
63	Low Temperature Synthesis of Sub-micrometer Yttria-doped Barium Zirconate Thin Films by Modified Chemical Solution Deposition Technique. ECS Transactions, 2015, 68, 481-488.	0.5	4
64	Fabrication of yttria-doped barium zirconate electrolyte with sub-micrometer thickness via low temperature viscous flow sintering. Surface and Coatings Technology, 2017, 320, 432-436.	4.8	4
65	SDC-Infiltrated Microporous Silver Membrane with Superior Resistance to Thermal Agglomeration for Cathode-Supported Solid Oxide Fuel Cells. Energies, 2018, 11, 2181.	3.1	4
66	Injection-seeded high-repetition-rate short-pulse micro-laser based on upconversion nanoparticles. Nanoscale, 2021, 13, 878-885.	5.6	4
67	Surface third-harmonic generation at a two-photon-polymerized micro-interferometer for real-time on-chip refractive index monitoring. Optics Express, 2019, 27, 29196.	3.4	4
68	Self-reconstructing Bessel beam created by two-photon-polymerized micro-axicon for light-sheet fluorescence microscopy. Results in Physics, 2021, 24, 104111.	4.1	3
69	Effect of Laser-derived Surface Re-melting of YSZ Electrolyte on Performance of Solid Oxide Fuel Cells. International Journal of Precision Engineering and Manufacturing - Green Technology, 2019, 6, 235-239.	4.9	2
70	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
71	Inkjet-printed silver and samarium-doped ceria nanocomposite cathode for low temperature solid oxide fuel cells. , 2017, , .		1
72	Numerical analysis of injected current effects on thermal characteristics of vertical-cavity surface-emitting laser. Journal of Mechanical Science and Technology, 2018, 32, 1463-1469.	1.5	1

#	Article	IF	CITATIONS
73	Label-free quantitative measurement of cardiovascular dynamics in a zebrafish embryo using frequency-comb-referenced-quantitative phase imaging. Journal of Biomedical Optics, 2021, 26, .	2.6	1
74	Silicon-based thin film solid oxide fuel cell array. , 2010, , .		0
75	Generalized equilibrium concentration of polyvacancy: case study for trivacancy in hard-sphere crystals. Molecular Physics, 2011, 109, 2461-2470.	1.7	0
76	Fabrication and strength analysis of humanoid focusing mechanism. Microelectronic Engineering, 2012, 98, 610-613.	2.4	0
77	Silver as a cathode for silicon-based micro solid oxide fuel cells. , 2016, , .		Ο
78	Opportunities for Fabrication of SOFC Anode Using Selective Laser Melting. , 2014, , .		0