

# Yingchao Dong

## List of Publications by Citations

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94  
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56  
g-index

95  
ext. papers

4,198  
ext. citations

7.6  
avg, IF

5.44  
L-index

#	Paper	IF	Citations
94	A low-cost mullite-titania composite ceramic hollow fiber microfiltration membrane for highly efficient separation of oil-in-water emulsion. <i>Water Research</i> , <b>2016</b> , 90, 277-285	12.5	180
93	Application of ceramic microfiltration membrane modified by nano-TiO <sub>2</sub> coating in separation of a stable oil-in-water emulsion. <i>Journal of Membrane Science</i> , <b>2014</b> , 456, 128-133	9.6	161
92	Fabrication and Water Treatment Application of Carbon Nanotubes (CNTs)-Based Composite Membranes: A Review. <i>Membranes</i> , <b>2017</b> , 7,	3.8	123
91	Recycling of waste fly ash for production of porous mullite ceramic membrane supports with increased porosity. <i>Journal of the European Ceramic Society</i> , <b>2014</b> , 34, 3181-3194	6	118
90	Feasible recycling of industrial waste coal fly ash for preparation of anorthite-cordierite based porous ceramic membrane supports with addition of dolomite. <i>Journal of the European Ceramic Society</i> , <b>2016</b> , 36, 1059-1071	6	115
89	Preparation of cordierite-based porous ceramic micro-filtration membranes using waste fly ash as the main raw materials. <i>Journal of Membrane Science</i> , <b>2006</b> , 285, 173-181	9.6	110
88	Preparation of low-cost mullite ceramics from natural bauxite and industrial waste fly ash. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 460, 599-606	5.7	105
87	Stable Superhydrophobic Ceramic-Based Carbon Nanotube Composite Desalination Membranes. <i>Nano Letters</i> , <b>2018</b> , 18, 5514-5521	11.5	102
86	Environment-oriented low-cost porous mullite ceramic membrane supports fabricated from coal gangue and bauxite. <i>Journal of Hazardous Materials</i> , <b>2014</b> , 273, 136-45	12.8	96
85	Elaboration and chemical corrosion resistance of tubular macro-porous cordierite ceramic membrane supports. <i>Journal of Membrane Science</i> , <b>2007</b> , 304, 65-75	9.6	96
84	Recycling of fly ash for preparing porous mullite membrane supports with titania addition. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 180, 173-80	12.8	80
83	Investigation of cobalt-free cathode material Sm <sub>0.5</sub> Sr <sub>0.5</sub> Fe <sub>0.8</sub> Cu <sub>0.2</sub> O <sub>3</sub> for intermediate temperature solid oxide fuel cell. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 6905-6910	6.7	80
82	Waste-to-Resource Strategy To Fabricate Highly Porous Whisker-Structured Mullite Ceramic Membrane for Simulated Oil-in-Water Emulsion Wastewater Treatment. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 2098-2106	8.3	79
81	Fabrication and characterization of low cost tubular mineral-based ceramic membranes for micro-filtration from natural zeolite. <i>Journal of Membrane Science</i> , <b>2006</b> , 281, 592-599	9.6	74
80	Reaction-sintered porous mineral-based mullite ceramic membrane supports made from recycled materials. <i>Journal of Hazardous Materials</i> , <b>2009</b> , 172, 180-6	12.8	73
79	TiO <sub>2</sub> nanotubes coupled with nano-Cu(OH) <sub>2</sub> for highly efficient photocatalytic hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 2126-2135	6.7	72
78	Waste-to-resource preparation of a porous ceramic membrane support featuring elongated mullite whiskers with enhanced porosity and permeance. <i>Journal of the European Ceramic Society</i> , <b>2015</b> , 35, 711-721	6	71

77	Self-sustained hydrophilic nanofiber thin film composite forward osmosis membranes: Preparation, characterization and application for simulated antibiotic wastewater treatment. <i>Journal of Membrane Science</i> , <b>2017</b> , 523, 205-215	9.6	71
76	A low-cost alumina-mullite composite hollow fiber ceramic membrane fabricated via phase-inversion and sintering method. <i>Journal of the European Ceramic Society</i> , <b>2016</b> , 36, 2057-2066	6	70
75	Sintering and characterization of flyash-based mullite with MgO addition. <i>Journal of the European Ceramic Society</i> , <b>2011</b> , 31, 687-695	6	67
74	Intermediate-to-low temperature protonic ceramic membrane fuel cells with Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3</sub> -BaZr <sub>0.1</sub> Ce <sub>0.7</sub> Y <sub>0.2</sub> O <sub>3</sub> - $\lambda$ composite cathode. <i>Journal of Power Sources</i> , <b>2009</b> , 186, 58-61	8.9	65
73	In situ screen-printed BaZr <sub>0.1</sub> Ce <sub>0.7</sub> Y <sub>0.2</sub> O <sub>3</sub> - $\lambda$ electrolyte-based protonic ceramic membrane fuel cells with layered SmBaCo <sub>2</sub> O <sub>5+x</sub> cathode. <i>Journal of Power Sources</i> , <b>2009</b> , 186, 446-449	8.9	60
72	Corrosion resistance characterization of porous alumina membrane supports. <i>Materials Characterization</i> , <b>2011</b> , 62, 409-418	3.9	58
71	Facile and green synthesis of titanate nanotube/graphene nanocomposites for photocatalytic H <sub>2</sub> generation from water. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 9178-9185	6.7	42
70	Utilization of sepiolite in the synthesis of porous cordierite ceramics. <i>Applied Clay Science</i> , <b>2011</b> , 52, 328-332	3.32	40
69	Enhancing the photocatalytic H <sub>2</sub> evolution activity of red phosphorous by using noble-metal-free Ni(OH) <sub>2</sub> under photoexcitation up to 700 nm. <i>RSC Advances</i> , <b>2014</b> , 4, 44823-44826	3.7	39
68	Effect of particle size distribution of raw powders on pore size distribution and bending strength of Al <sub>2</sub> O <sub>3</sub> microfiltration membrane supports. <i>Journal of the European Ceramic Society</i> , <b>2014</b> , 34, 3819-3825	6	38
67	Coal fly ash industrial waste recycling for fabrication of mullite-whisker-structured porous ceramic membrane supports. <i>RSC Advances</i> , <b>2015</b> , 5, 11163-11174	3.7	37
66	A phase-inversion casting process for preparation of tubular porous alumina ceramic membranes. <i>Journal of the European Ceramic Society</i> , <b>2015</b> , 35, 3187-3194	6	36
65	Spinel-based ceramic membranes coupling solid sludge recycling with oily wastewater treatment. <i>Water Research</i> , <b>2020</b> , 169, 115180	12.5	35
64	Highly permeable porous YSZ hollow fiber membrane prepared using ethanol as external coagulant. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 494, 366-371	5.7	34
63	Fabrication of mullite ceramic-supported carbon nanotube composite membranes with enhanced performance in direct separation of high-temperature emulsified oil droplets. <i>Journal of Membrane Science</i> , <b>2019</b> , 582, 140-150	9.6	33
62	Engineering a Nanocomposite Interlayer for a Novel Ceramic-Based Forward Osmosis Membrane with Enhanced Performance. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 7715-7724	10.3	33
61	Cost-effective macro-porous mullite-corundum ceramic membrane supports derived from the industrial grade powder. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 477, 350-356	5.7	33
60	High sintering activity Cu <sub>2</sub> O co-doped CeO <sub>2</sub> electrolyte for solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 6510-6515	8.9	33

59	Synthesis and sintering of Gd-doped CeO <sub>2</sub> electrolytes with and without 1 at.% CuO doping for solid oxide fuel cell applications. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 5054-5066	6.7	32
58	Phase evolution and sintering characteristics of porous mullite ceramics produced from the flyash-Al(OH) <sub>3</sub> coating powders. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 460, 651-657	5.7	32
57	Preparation of microfiltration membrane supports using coarse alumina grains coated by nano TiO <sub>2</sub> as raw materials. <i>Journal of the European Ceramic Society</i> , <b>2014</b> , 34, 4355-4361	6	31
56	Asymmetric porous cordierite hollow fiber membrane for microfiltration. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 487, 631-638	5.7	31
55	A cathode-supported SOFC with thin Ce <sub>0.8</sub> Sm <sub>0.2</sub> O <sub>1.9</sub> electrolyte prepared by a suspension spray. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 465, 285-290	5.7	31
54	Waste recycling of coal fly ash for design of highly porous whisker-structured mullite ceramic membranes. <i>Journal of the European Ceramic Society</i> , <b>2019</b> , 39, 5320-5331	6	29
53	Flexible Superhydrophobic Metal-Based Carbon Nanotube Membrane for Electrochemically Enhanced Water Treatment. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 9074-9082	10.3	29
52	Reactable substrate participating interfacial polymerization for thin film composite membranes with enhanced salt rejection performance. <i>Desalination</i> , <b>2018</b> , 436, 1-7	10.3	28
51	Stable, easily sintered Ca <sub>2</sub> N-doped YCrO <sub>3</sub> as novel interconnect materials for co-fired yttrium-stabilized zirconia-based solid oxide fuel cells. <i>Journal of Power Sources</i> , <b>2009</b> , 188, 483-488	8.9	28
50	An anode-supported micro-tubular solid oxide fuel cell with redox stable composite cathode. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 8654-8662	6.7	28
49	Co-production of hydrogen and carbon nanotubes on nickel foam via methane catalytic decomposition. <i>Applied Surface Science</i> , <b>2016</b> , 369, 299-307	6.7	27
48	A high performance Ru <sub>2</sub> O <sub>3</sub> /carbon nanotubes/Ni foam composite catalyst for selective CO methanation. <i>Journal of Power Sources</i> , <b>2013</b> , 242, 132-136	8.9	27
47	Dual-production of nickel foam supported carbon nanotubes and hydrogen by methane catalytic decomposition. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 12307-12316	6.7	26
46	Facile synthesis of Co(OH) <sub>2</sub> modified TiO <sub>2</sub> nanocomposites with enhanced photocatalytic H <sub>2</sub> evolution activity. <i>Materials Letters</i> , <b>2015</b> , 138, 56-59	3.3	25
45	Cost-effective utilization of mineral-based raw materials for preparation of porous mullite ceramic membranes via in-situ reaction method. <i>Applied Clay Science</i> , <b>2016</b> , 120, 135-141	5.2	25
44	A review of CO <sub>2</sub> sorbents for promoting hydrogen production in the sorption-enhanced steam reforming process. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 23358-23358	6.7	25
43	Evaluation of hydrogen permeation properties of Ni <sub>0.5</sub> Ba <sub>0.5</sub> (Zr <sub>0.7</sub> Pr <sub>0.1</sub> Y <sub>0.2</sub> )O <sub>3-δ</sub> ceramic membranes. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 11683-11689	6.7	23
42	Low-temperature protonic ceramic membrane fuel cells (PCMFCs) with SrCo <sub>0.9</sub> Sb <sub>0.1</sub> O <sub>3-δ</sub> cubic perovskite cathode. <i>Journal of Power Sources</i> , <b>2008</b> , 185, 937-940	8.9	22

41	Cross-linked Graphene Oxide Framework Membranes with Robust Nano-Channels for Enhanced Sieving Ability. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 15442-15453	10.3	22
40	Improvement of the performances of tubular solid oxide fuel cells by optimizing co-sintering temperature of the NiO/YSZ anode-YSZ electrolyte double layers. <i>Journal of Power Sources</i> , <b>2007</b> , 171, 495-498	8.9	20
39	High-flux robust ceramic membranes functionally decorated with nano-catalyst for emerging micro-pollutant removal from water. <i>Journal of Membrane Science</i> , <b>2020</b> , 611, 118281	9.6	19
38	A high stability Ni <sub>0.5</sub> Ce <sub>0.5</sub> O <sub>2</sub> -symmetrical metal-ceramic membrane for hydrogen separation and generation. <i>Journal of Power Sources</i> , <b>2015</b> , 281, 417-424	8.9	19
37	Low temperature sintering ability and electrical conductivity of SOFC interconnect material La <sub>0.7</sub> Ca <sub>0.3</sub> Cr <sub>0.97</sub> O <sub>3</sub> . <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 468, 499-504	5.7	19
36	Influence of Cr deficiency on sintering character and properties of SOFC interconnect material La <sub>0.7</sub> Ca <sub>0.3</sub> Cr <sub>1-x</sub> O <sub>3</sub> . <i>Materials Research Bulletin</i> , <b>2008</b> , 43, 2607-2616	5.1	18
35	Cost-effective tubular cordierite micro-filtration membranes processed by co-sintering. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 477, L35-L40	5.7	17
34	Highly permeable and highly selective ultrathin film composite polyamide membranes reinforced by reactable polymer chains. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 552, 418-425	9.3	16
33	Incorporation of zinc for fabrication of low-cost spinel-based composite ceramic membrane support to achieve its stabilization. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 287, 188-96	12.8	16
32	Fabrication of dense LaCrO <sub>3</sub> -based interconnect thin membrane on anode substrates by co-firing. <i>Materials Research Bulletin</i> , <b>2009</b> , 44, 2127-2133	5.1	15
31	Construction of Ru/Ni-Al-oxide/Ni-foam monolithic catalyst for deep-removing CO in hydrogen-rich gas via selective methanation. <i>Fuel Processing Technology</i> , <b>2016</b> , 148, 367-371	7.2	15
30	BaZr <sub>0.1</sub> Ce <sub>0.7</sub> Y <sub>0.2</sub> O <sub>3</sub> -proton-conducting electrolyte prepared by gel-casting for low-temperature solid oxide fuel cells. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 474, 364-369	5.7	14
29	A high-strength Sm-doped CeO <sub>2</sub> oxide-ion conducting electrolyte membrane for solid oxide fuel cell application. <i>RSC Advances</i> , <b>2013</b> , 3, 17395	3.7	13
28	A chromium oxide solution modified lithium titanium oxide with much improved rate performance. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 15310	13	13
27	Combustion synthesis and characterization of Cu <sub>2</sub> M co-doped CeO <sub>2</sub> electrolytes. <i>Journal of the European Ceramic Society</i> , <b>2011</b> , 31, 2365-2376	6	13
26	Adsorption of Low Concentration Formaldehyde in Air Using Ethylene-Diamine-Modified Diatomaceous Earth. <i>Aerosol and Air Quality Research</i> , <b>2015</b> , 15, 1652-1661	4.6	13
25	Thermal Conversion of Hazardous Metal Copper via the Preparation of CuAl <sub>2</sub> O <sub>4</sub> Spinel-based Ceramic Membrane for Potential Stabilization of Simulated Copper-Rich Waste. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 2611-2618	8.3	12
24	Formation and quantification of peroxide anions in nanocages of 12CaO $\cdot$ 7Al <sub>2</sub> O <sub>3</sub> . <i>RSC Advances</i> , <b>2013</b> , 3, 18311	3.7	12

23	Robust ultrathin nanoporous MOF membrane with intra-crystalline defects for fast water transport.. <i>Nature Communications</i> , <b>2022</b> , 13, 266	17.4	12
22	Recent development of pressure retarded osmosis membranes for water and energy sustainability: A critical review. <i>Water Research</i> , <b>2021</b> , 189, 116666	12.5	12
21	Chloride-Ion-Stabilized Strontium Mayenite: Expansion of Versatile Material Family. <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 4037-4044	3.8	10
20	Ceramic-Based Composite Membrane with a Porous Network Surface Featuring a Highly Stable Flux for Drinking Water Purification. <i>Membranes</i> , <b>2019</b> , 9,	3.8	10
19	Stable, easily sintered BaCe <sub>0.5</sub> Zr <sub>0.3</sub> Y <sub>0.16</sub> Zn <sub>0.04</sub> O <sub>3-<math>\delta</math></sub> electrolyte-based proton-conducting solid oxide fuel cells by gel-casting and suspension spray. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 478, 590-593	5.7	9
18	Robust zirconia ceramic membrane with exceptional performance for purifying nano-emulsion oily wastewater. <i>Water Research</i> , <b>2022</b> , 208, 117859	12.5	8
17	An anode-supported hollow fiber solid oxide fuel cell with (Pr <sub>0.5</sub> Nd <sub>0.5</sub> ) <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3-<math>\delta</math></sub> /SZ composite cathode. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 497, 386-389	5.7	7
16	Stable Zr-Based Metal-Organic Framework Nanoporous Membrane for Efficient Desalination of Hypersaline Water. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 14917-14927	10.3	7
15	Simulation Study on Direct Contact Membrane Distillation Modules for High-Concentration NaCl Solution. <i>Membranes</i> , <b>2020</b> , 10,	3.8	6
14	Application of surface complexation modeling on modification of hematite surface with cobalt cocatalysts: a potential tool for preparing homogeneously distributed catalysts. <i>RSC Advances</i> , <b>2015</b> , 5, 67700-67705	3.7	5
13	Treatment of oily wastewaters by highly porous whisker-constructed ceramic membranes: Separation performance and fouling models.. <i>Water Research</i> , <b>2022</b> , 211, 118042	12.5	5
12	Decorating Mg/Fe oxide nanotubes with nitrogen-doped carbon nanotubes. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 9372-9376	5.7	4
11	Mechanical strengthening of Sm-doped CeO <sub>2</sub> ceramics by 1 mol% cobalt oxide for solid oxide fuel cell application. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 8402-8405	8.9	4
10	Superhydrophilic spinel ceramic membranes for oily emulsion wastewater treatment. <i>Journal of Water Process Engineering</i> , <b>2021</b> , 42, 102161	6.7	4
9	Electrically conductive hydrophobic membrane cathode for membrane distillation with super anti-oil-fouling capability: Performance and mechanism. <i>Desalination</i> , <b>2021</b> , 516, 115199	10.3	4
8	Electro-Enhanced Separation of Microsized Oil-in-Water Emulsions via Metallic Membranes: Performance and Mechanistic Insights.. <i>Environmental Science &amp; Technology</i> , <b>2022</b> ,	10.3	4
7	Effect of CuO doping on sinterability, mechanical and electrical properties of Sm-doped CeO <sub>2</sub> ceramic thick membrane solid electrolytes. <i>Ceramics International</i> , <b>2014</b> , 40, 15545-15550	5.1	3
6	Scalable robust nano-porous Zr-based MOF adsorbent with high-capacity for sustainable water purification. <i>Separation and Purification Technology</i> , <b>2022</b> , 288, 120620	8.3	3

5	Development and evaluation of a ceramic diffusive layer based DGT technique for measuring organic micropollutants in seawaters. <i>Environment International</i> , <b>2021</b> , 156, 106653	12.9	3
4	PVA-assisted synthesis and characterization of nano-crystalline La <sup>3+</sup> and Mg <sup>2+</sup> co-doped CeO <sub>2</sub> electrolyte for intermediate-temperature solid oxide fuel cells. <i>Ionics</i> , <b>2013</b> , 19, 343-349	2.7	2
3	Efficient Reduction of Low-Concentration NO via Dendritically Channeled Solid Oxide Cells. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 6968-6974	6.1	1
2	Cost and efficiency perspectives of ceramic membranes for water treatment. <i>Water Research</i> , <b>2022</b> , 220, 118629	12.5	0
1	Strengthening of Gadolinia-Doped Ceria (Ce <sub>0.80</sub> Gd <sub>0.20</sub> O <sub>2-δ</sub> ) Thick Ceramic Membranes with Co-Doping of 1 mol% CuO. <i>International Journal of Applied Ceramic Technology</i> , <b>2015</b> , 12, 1027-1033		2