Yingchao Dong

List of Publications by Year in Descending Order

94 papers	3,468 citations	33 h-index	56 g-index
95 ext. papers	4,198 ext. citations	7.6 avg, IF	5.44 L-index

#	Paper	IF	Citations
94	Treatment of oily wastewaters by highly porous whisker-constructed ceramic membranes: Separation performance and fouling models.. *Water Research*, **2022**, 211, 118042	12.5	5
93	Scalable robust nano-porous Zr-based MOF adsorbent with high-capacity for sustainable water purification. *Separation and Purification Technology*, **2022**, 288, 120620	8.3	3
92	Robust zirconia ceramic membrane with exceptional performance for purifying nano-emulsion oily wastewater. *Water Research*, **2022**, 208, 117859	12.5	8
91	Robust ultrathin nanoporous MOF membrane with intra-crystalline defects for fast water transport.. *Nature Communications*, **2022**, 13, 266	17.4	12
90	Electro-Enhanced Separation of Microsized Oil-in-Water Emulsions via Metallic Membranes: Performance and Mechanistic Insights.. *Environmental Science & Technology*, **2022**,	10.3	4
89	Cost and efficiency perspectives of ceramic membranes for water treatment. *Water Research*, **2022**, 220, 118629	12.5	0
88	Stable Zr-Based Metal-Organic Framework Nanoporous Membrane for Efficient Desalination of Hypersaline Water. *Environmental Science & Technology*, **2021**, 55, 14917-14927	10.3	7
87	Efficient Reduction of Low-Concentration NO via Dendritically Channeled Solid Oxide Cells. *ACS Applied Energy Materials*, **2021**, 4, 6968-6974	6.1	1
86	Recent development of pressure retarded osmosis membranes for water and energy sustainability: A critical review. *Water Research*, **2021**, 189, 116666	12.5	12
85	A review of CO2 sorbents for promoting hydrogen production in the sorption-enhanced steam reforming process. *International Journal of Hydrogen Energy*, **2021**, 46, 23358-23358	6.7	25
84	Superhydrophilic spinel ceramic membranes for oily emulsion wastewater treatment. *Journal of Water Process Engineering*, **2021**, 42, 102161	6.7	4
83	Electrically conductive hydrophobic membrane cathode for membrane distillation with super anti-oil-fouling capability: Performance and mechanism. *Desalination*, **2021**, 516, 115199	10.3	4
82	Development and evaluation of a ceramic diffusive layer based DGT technique for measuring organic micropollutants in seawaters. *Environment International*, **2021**, 156, 106653	12.9	3
81	Engineering a Nanocomposite Interlayer for a Novel Ceramic-Based Forward Osmosis Membrane with Enhanced Performance. *Environmental Science & Technology*, **2020**, 54, 7715-7724	10.3	33
80	Flexible Superhydrophobic Metal-Based Carbon Nanotube Membrane for Electrochemically Enhanced Water Treatment. *Environmental Science & Technology*, **2020**, 54, 9074-9082	10.3	29
79	High-flux robust ceramic membranes functionally decorated with nano-catalyst for emerging micro-pollutant removal from water. *Journal of Membrane Science*, **2020**, 611, 118281	9.6	19
78	Cross-linked Graphene Oxide Framework Membranes with Robust Nano-Channels for Enhanced Sieving Ability. *Environmental Science & Technology*, **2020**, 54, 15442-15453	10.3	22

77	Simulation Study on Direct Contact Membrane Distillation Modules for High-Concentration NaCl Solution. *Membranes*, **2020**, 10,	3.8	6
76	Spinel-based ceramic membranes coupling solid sludge recycling with oily wastewater treatment. *Water Research*, **2020**, 169, 115180	12.5	35
75	Waste recycling of coal fly ash for design of highly porous whisker-structured mullite ceramic membranes. *Journal of the European Ceramic Society*, **2019**, 39, 5320-5331	6	29
74	Highly permeable and highly selective ultrathin film composite polyamide membranes reinforced by reactable polymer chains. *Journal of Colloid and Interface Science*, **2019**, 552, 418-425	9.3	16
73	Fabrication of mullite ceramic-supported carbon nanotube composite membranes with enhanced performance in direct separation of high-temperature emulsified oil droplets. *Journal of Membrane Science*, **2019**, 582, 140-150	9.6	33
72	Ceramic-Based Composite Membrane with a Porous Network Surface Featuring a Highly Stable Flux for Drinking Water Purification. *Membranes*, **2019**, 9,	3.8	10
71	Reactable substrate participating interfacial polymerization for thin film composite membranes with enhanced salt rejection performance. *Desalination*, **2018**, 436, 1-7	10.3	28
70	Stable Superhydrophobic Ceramic-Based Carbon Nanotube Composite Desalination Membranes. *Nano Letters*, **2018**, 18, 5514-5521	11.5	102
69	Self-sustained hydrophilic nanofiber thin film composite forward osmosis membranes: Preparation, characterization and application for simulated antibiotic wastewater treatment. *Journal of Membrane Science*, **2017**, 523, 205-215	9.6	71
68	Fabrication and Water Treatment Application of Carbon Nanotubes (CNTs)-Based Composite Membranes: A Review. *Membranes*, **2017**, 7,	3.8	123
67	Feasible recycling of industrial waste coal fly ash for preparation of anorthite-cordierite based porous ceramic membrane supports with addition of dolomite. *Journal of the European Ceramic Society*, **2016**, 36, 1059-1071	6	115
66	Co-production of hydrogen and carbon nanotubes on nickel foam via methane catalytic decomposition. *Applied Surface Science*, **2016**, 369, 299-307	6.7	27
65	A low-cost alumina-mullite composite hollow fiber ceramic membrane fabricated via phase-inversion and sintering method. *Journal of the European Ceramic Society*, **2016**, 36, 2057-2066	6	70
64	A low-cost mullite-titania composite ceramic hollow fiber microfiltration membrane for highly efficient separation of oil-in-water emulsion. *Water Research*, **2016**, 90, 277-285	12.5	180
63	Cost-effective utilization of mineral-based raw materials for preparation of porous mullite ceramic membranes via in-situ reaction method. *Applied Clay Science*, **2016**, 120, 135-141	5.2	25
62	Waste-to-Resource Strategy To Fabricate Highly Porous Whisker-Structured Mullite Ceramic Membrane for Simulated Oil-in-Water Emulsion Wastewater Treatment. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 2098-2106	8.3	79
61	Construction of Ru/Ni-Al-oxide/Ni-foam monolithic catalyst for deep-removing CO in hydrogen-rich gas via selective methanation. *Fuel Processing Technology*, **2016**, 148, 367-371	7.2	15
60	Coal fly ash industrial waste recycling for fabrication of mullite-whisker-structured porous ceramic membrane supports. *RSC Advances*, **2015**, 5, 11163-11174	3.7	37

59	A phase-inversion casting process for preparation of tubular porous alumina ceramic membranes. *Journal of the European Ceramic Society*, **2015**, 35, 3187-3194	6	36
58	Application of surface complexation modeling on modification of hematite surface with cobalt cocatalysts: a potential tool for preparing homogeneously distributed catalysts. *RSC Advances*, **2015**, 5, 67700-67705	3.7	5
57	Thermal Conversion of Hazardous Metal Copper via the Preparation of CuAl2O4 Spinel-based Ceramic Membrane for Potential Stabilization of Simulated Copper-Rich Waste. *ACS Sustainable Chemistry and Engineering*, **2015**, 3, 2611-2618	8.3	12
56	Waste-to-resource preparation of a porous ceramic membrane support featuring elongated mullite whiskers with enhanced porosity and permeance. *Journal of the European Ceramic Society*, **2015**, 35, 711-721	6	71
55	Facile synthesis of Co(OH)2 modified TiO2 nanocomposites with enhanced photocatalytic H2 evolution activity. *Materials Letters*, **2015**, 138, 56-59	3.3	25
54	Strengthening of Gadolinia-Doped Ceria (Ce0.80Gd0.20O2-δ) Thick Ceramic Membranes with Co-Doping of 1 mol% CuO. *International Journal of Applied Ceramic Technology*, **2015**, 12, 1027-1033	2	
53	A high stability Ni a 0.5 Ce 0.5 O 2 asymmetrical metal-ceramic membrane for hydrogen separation and generation. *Journal of Power Sources*, **2015**, 281, 417-424	8.9	19
52	Incorporation of zinc for fabrication of low-cost spinel-based composite ceramic membrane support to achieve its stabilization. *Journal of Hazardous Materials*, **2015**, 287, 188-96	12.8	16
51	Adsorption of Low Concentration Formaldehyde in Air Using Ethylene-Diamine-Modified Diatomaceous Earth. *Aerosol and Air Quality Research*, **2015**, 15, 1652-1661	4.6	13
50	Application of ceramic microfiltration membrane modified by nano-TiO2 coating in separation of a stable oil-in-water emulsion. *Journal of Membrane Science*, **2014**, 456, 128-133	9.6	161
49	Preparation of microfiltration membrane supports using coarse alumina grains coated by nano TiO2 as raw materials. *Journal of the European Ceramic Society*, **2014**, 34, 4355-4361	6	31
48	Enhancing the photocatalytic H2 evolution activity of red phosphorous by using noble-metal-free Ni(OH)2 under photoexcitation up to 700 nm. *RSC Advances*, **2014**, 4, 44823-44826	3.7	39
47	Effect of particle size distribution of raw powders on pore size distribution and bending strength of Al2O3 microfiltration membrane supports. *Journal of the European Ceramic Society*, **2014**, 34, 3819-3825	6	38
46	Effect of CuO doping on sinterability, mechanical and electrical properties of Sm-doped CeO2 ceramic thick membrane solid electrolytes. *Ceramics International*, **2014**, 40, 15545-15550	5.1	3
45	Recycling of waste fly ash for production of porous mullite ceramic membrane supports with increased porosity. *Journal of the European Ceramic Society*, **2014**, 34, 3181-3194	6	118
44	Evaluation of hydrogen permeation properties of Ni Ba(Zr0.7Pr0.1Y0.2)O3 cermet membranes. *International Journal of Hydrogen Energy*, **2014**, 39, 11683-11689	6.7	23
43	Chloride-Ion-Stabilized Strontium Mayenite: Expansion of Versatile Material Family. *Journal of the American Ceramic Society*, **2014**, 97, 4037-4044	3.8	10
42	Environment-oriented low-cost porous mullite ceramic membrane supports fabricated from coal gangue and bauxite. *Journal of Hazardous Materials*, **2014**, 273, 136-45	12.8	96

41	A high-strength Sm-doped CeO2 oxide-ion conducting electrolyte membrane for solid oxide fuel cell application. *RSC Advances*, **2013**, 3, 17395	3.7	13
40	Formation and quantification of peroxide anions in nanocages of 12CaO·7Al2O3. *RSC Advances*, **2013**, 3, 18311	3.7	12
39	TiO2 nanotubes coupled with nano-Cu(OH)2 for highly efficient photocatalytic hydrogen production. *International Journal of Hydrogen Energy*, **2013**, 38, 2126-2135	6.7	72
38	A chromium oxide solution modified lithium titanium oxide with much improved rate performance. *Journal of Materials Chemistry A*, **2013**, 1, 15310	13	13
37	Facile and green synthesis of titanate nanotube/graphene nanocomposites for photocatalytic H2 generation from water. *International Journal of Hydrogen Energy*, **2013**, 38, 9178-9185	6.7	42
36	A high performance Ru-ZrO2/carbon nanotubes-Ni foam composite catalyst for selective CO methanation. *Journal of Power Sources*, **2013**, 242, 132-136	8.9	27
35	PVA-assisted synthesis and characterization of nano-crystalline La3+ and Mg2+ co-doped CeO2 electrolyte for intermediate-temperature solid oxide fuel cells. *Ionics*, **2013**, 19, 343-349	2.7	2
34	Dual-production of nickel foam supported carbon nanotubes and hydrogen by methane catalytic decomposition. *International Journal of Hydrogen Energy*, **2012**, 37, 12307-12316	6.7	26
33	Utilization of sepiolite in the synthesis of porous cordierite ceramics. *Applied Clay Science*, **2011**, 52, 328-332	3.2	40
32	Decorating Mg/Fe oxide nanotubes with nitrogen-doped carbon nanotubes. *Journal of Alloys and Compounds*, **2011**, 509, 9372-9376	5.7	4
31	Combustion synthesis and characterization of Cu-Sm co-doped CeO2 electrolytes. *Journal of the European Ceramic Society*, **2011**, 31, 2365-2376	6	13
30	Mechanical strengthening of Sm-doped CeO2 ceramics by 1 mol% cobalt oxide for solid oxide fuel cell application. *Journal of Power Sources*, **2011**, 196, 8402-8405	8.9	4
29	Corrosion resistance characterization of porous alumina membrane supports. *Materials Characterization*, **2011**, 62, 409-418	3.9	58
28	Synthesis and sintering of Gd-doped CeO2 electrolytes with and without 1 at.% CuO dopping for solid oxide fuel cell applications. *International Journal of Hydrogen Energy*, **2011**, 36, 5054-5066	6.7	32
27	Sintering and characterization of flyash-based mullite with MgO addition. *Journal of the European Ceramic Society*, **2011**, 31, 687-695	6	67
26	Highly permeable porous YSZ hollow fiber membrane prepared using ethanol as external coagulant. *Journal of Alloys and Compounds*, **2010**, 494, 366-371	5.7	34
25	An anode-supported hollow fiber solid oxide fuel cell with (Pr0.5Nd0.5)0.7Sr0.3MnO3-YSZ composite cathode. *Journal of Alloys and Compounds*, **2010**, 497, 386-389	5.7	7
24	Recycling of fly ash for preparing porous mullite membrane supports with titania addition. *Journal of Hazardous Materials*, **2010**, 180, 173-80	12.8	80

23	High sintering activity Cu□d co-doped CeO2 electrolyte for solid oxide fuel cells. *Journal of Power Sources*, **2010**, 195, 6510-6515	8.9	33
22	Investigation of cobalt-free cathode material Sm0.5Sr0.5Fe0.8Cu0.2O3□for intermediate temperature solid oxide fuel cell. *International Journal of Hydrogen Energy*, **2010**, 35, 6905-6910	6.7	80
21	An anode-supported micro-tubular solid oxide fuel cell with redox stable composite cathode. *International Journal of Hydrogen Energy*, **2010**, 35, 8654-8662	6.7	28
20	Fabrication of dense LaCrO3-based interconnect thin membrane on anode substrates by co-firing. *Materials Research Bulletin*, **2009**, 44, 2127-2133	5.1	15
19	Stable, easily sintered Ca□Zn-doped YCrO3 as novel interconnect materials for co-fired yttrium-stabilized zirconia-based solid oxide fuel cells. *Journal of Power Sources*, **2009**, 188, 483-488	8.9	28
18	Reaction-sintered porous mineral-based mullite ceramic membrane supports made from recycled materials. *Journal of Hazardous Materials*, **2009**, 172, 180-6	12.8	73
17	Intermediate-to-low temperature protonic ceramic membrane fuel cells with Ba0.5Sr0.5Co0.8Fe0.2O3-□BaZr0.1Ce0.7Y0.2O3-□composite cathode. *Journal of Power Sources*, **2009**, 186, 58-61	8.9	65
16	In situ screen-printed BaZr0.1Ce0.7Y0.2O3□electrolyte-based protonic ceramic membrane fuel cells with layered SmBaCo2O5+x cathode. *Journal of Power Sources*, **2009**, 186, 446-449	8.9	60
15	Low temperature sintering ability and electrical conductivity of SOFC interconnect material La0.7Ca0.3Cr0.97O3. *Journal of Alloys and Compounds*, **2009**, 468, 499-504	5.7	19
14	BaZr0.1Ce0.7Y0.2O3□proton-conducting electrolyte prepared by gel-casting for low-temperature solid oxide fuel cells. *Journal of Alloys and Compounds*, **2009**, 474, 364-369	5.7	14
13	Cost-effective macro-porous mullite-corundum ceramic membrane supports derived from the industrial grade powder. *Journal of Alloys and Compounds*, **2009**, 477, 350-356	5.7	33
12	Cost-effective tubular cordierite micro-filtration membranes processed by co-sintering. *Journal of Alloys and Compounds*, **2009**, 477, L35-L40	5.7	17
11	Stable, easily sintered BaCe0.5Zr0.3Y0.16Zn0.04O3□electrolyte-based proton-conducting solid oxide fuel cells by gel-casting and suspension spray. *Journal of Alloys and Compounds*, **2009**, 478, 590-593	5.7	9
10	Asymmetric porous cordierite hollow fiber membrane for microfiltration. *Journal of Alloys and Compounds*, **2009**, 487, 631-638	5.7	31
9	Influence of Cr deficiency on sintering character and properties of SOFC interconnect material La0.7Ca0.3Cr1□O3□*Materials Research Bulletin*, **2008**, 43, 2607-2616	5.1	18
8	Preparation of low-cost mullite ceramics from natural bauxite and industrial waste fly ash. *Journal of Alloys and Compounds*, **2008**, 460, 599-606	5.7	105
7	Phase evolution and sintering characteristics of porous mullite ceramics produced from the flyash-Al(OH)3 coating powders. *Journal of Alloys and Compounds*, **2008**, 460, 651-657	5.7	32
6	A cathode-supported SOFC with thin Ce0.8Sm0.2O1.9 electrolyte prepared by a suspension spray. *Journal of Alloys and Compounds*, **2008**, 465, 285-290	5.7	31

5	Low-temperature protonic ceramic membrane fuel cells (PCMFCs) with SrCo0.9Sb0.1O3Ł cubic perovskite cathode. *Journal of Power Sources*, **2008**, 185, 937-940	8.9	22
4	Improvement of the performances of tubular solid oxide fuel cells by optimizing co-sintering temperature of the NiO/YSZ anode-YSZ electrolyte double layers. *Journal of Power Sources*, **2007**, 171, 495-498	8.9	20
3	Elaboration and chemical corrosion resistance of tubular macro-porous cordierite ceramic membrane supports. *Journal of Membrane Science*, **2007**, 304, 65-75	9.6	96
2	Preparation of cordierite-based porous ceramic micro-filtration membranes using waste fly ash as the main raw materials. *Journal of Membrane Science*, **2006**, 285, 173-181	9.6	110
1	Fabrication and characterization of low cost tubular mineral-based ceramic membranes for micro-filtration from natural zeolite. *Journal of Membrane Science*, **2006**, 281, 592-599	9.6	74