

Hui-Hsin Tseng

List of Publications by Year in descending order

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106
papers

3,173
citations

126708

33
h-index

182168

51
g-index

108
all docs

108
docs citations

108
times ranked

3275
citing authors

#	ARTICLE	IF	CITATIONS
1	Characteristics of two types of stabilized nano zero-valent iron and transport in porous media. <i>Science of the Total Environment</i> , 2010, 408, 2260-2267.	3.9	164
2	Synthesis of granular activated carbon/zero valent iron composites for simultaneous adsorption/dechlorination of trichloroethylene. <i>Journal of Hazardous Materials</i> , 2011, 192, 500-506.	6.5	133
3	Study of SO ₂ adsorption and thermal regeneration over activated carbon-supported copper oxide catalysts. <i>Carbon</i> , 2004, 42, 2269-2278.	5.4	111
4	Preparation and characterization of multi-walled carbon nanotube/PBNPI nanocomposite membrane for H ₂ /CH ₄ separation. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 8707-8715.	3.8	104
5	Catalytic removal of SO ₂ , NO and HCl from incineration flue gas over activated carbon-supported metal oxides. <i>Carbon</i> , 2003, 41, 1079-1085.	5.4	98
6	Carbon materials as catalyst supports for SO ₂ oxidation: catalytic activity of CuO/AC. <i>Carbon</i> , 2003, 41, 139-149.	5.4	93
7	Progress of Interfacial Polymerization Techniques for Polyamide Thin Film (Nano)Composite Membrane Fabrication: A Comprehensive Review. <i>Polymers</i> , 2020, 12, 2817.	2.0	86
8	Fabrication of polyphenylsulfone/polyetherimide blend membranes for ultrafiltration applications: The effects of blending ratio on membrane properties and humic acid removal performance. <i>Journal of Membrane Science</i> , 2011, 384, 72-81.	4.1	85
9	A comparison of carbon/nanotube molecular sieve membranes with polymer blend carbon molecular sieve membranes for the gas permeation application. <i>Microporous and Mesoporous Materials</i> , 2008, 113, 499-510.	2.2	83
10	Degradation of xylene vapor over Ni-doped TiO ₂ photocatalysts prepared by polyol-mediated synthesis. <i>Chemical Engineering Journal</i> , 2009, 150, 160-167.	6.6	82
11	Fabrication and characterization of PPO/PVP blend carbon molecular sieve membranes for H ₂ /N ₂ and H ₂ /CH ₄ separation. <i>Journal of Membrane Science</i> , 2011, 372, 387-395.	4.1	80
12	Enhanced H ₂ /CH ₄ and H ₂ /CO ₂ separation by carbon molecular sieve membrane coated on titania modified alumina support: Effects of TiO ₂ intermediate layer preparation variables on interfacial adhesion. <i>Journal of Membrane Science</i> , 2016, 510, 391-404.	4.1	77
13	Pollutants in incineration flue gas. <i>Journal of Hazardous Materials</i> , 2001, 82, 247-262.	6.5	64
14	Effects of acid treatments of activated carbon on its physiochemical structure as a support for copper oxide in DeSO ₂ reaction catalysts. <i>Chemosphere</i> , 2006, 62, 756-766.	4.2	63
15	Fabrication and characterization of poly(phenylene oxide)/SBA-15/carbon molecule sieve multilayer mixed matrix membrane for gas separation. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 6971-6983.	3.8	57
16	Modification of carbon molecular sieve membrane structure by self-assisted deposition carbon segment for gas separation. <i>Journal of Membrane Science</i> , 2012, 389, 223-233.	4.1	57
17	Effect of mesoporous silica modification on the structure of hybrid carbon membrane for hydrogen separation. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 15352-15363.	3.8	54
18	The effect of blending ratio on the compatibility, morphology, thermal behavior and pure water permeation of asymmetric CAP/PVDF membranes. <i>Desalination</i> , 2012, 284, 269-278.	4.0	47

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19	Influence of support structure on the permeation behavior of polyetherimide-derived carbon molecular sieve composite membrane. <i>Journal of Membrane Science</i> , 2012, 405-406, 250-260.	4.1	46
20	Synthesis and characterization of the acidic properties and pore texture of Al-SBA-15 supports for the canola oil transesterification. <i>Chemical Engineering Journal</i> , 2013, 223, 785-794.	6.6	46
21	Effect of dry/wet-phase inversion method on fabricating polyetherimide-derived CMS membrane for H ₂ /N ₂ separation. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 1650-1658.	3.8	44
22	Synthesis of ZnFe ₂ O ₄ nanoparticles for photocatalytic removal of toluene from gas phase in the annular reactor. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 332, 188-195.	2.0	44
23	Effect of SBA-15 texture on the gas separation characteristics of SBA-15/polymer multilayer mixed matrix membrane. <i>Journal of Membrane Science</i> , 2011, 369, 550-559.	4.1	42
24	The prospect and development of incinerators for municipal solid waste treatment and characteristics of their pollutants in Taiwan. <i>Applied Thermal Engineering</i> , 2008, 28, 2305-2314.	3.0	41
25	Preparation of PPO-silica mixed matrix membranes by in-situ sol-gel method for H ₂ /CO ₂ separation. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 17178-17190.	3.8	41
26	Hydrogen separation performance of CMS membranes derived from the imide-functional group of two similar types of precursors. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 8645-8657.	3.8	40
27	Synthesis of TiO ₂ /SBA-15 photocatalyst for the azo dye decolorization through the polyol method. <i>Chemical Engineering Journal</i> , 2012, 210, 529-538.	6.6	40
28	Superoleophilic and superhydrophobic carbon membranes for high quantity and quality separation of trace water-in-oil emulsions. <i>Journal of Membrane Science</i> , 2018, 559, 148-158.	4.1	40
29	Enhancing the antifouling properties of a PVDF membrane for protein separation by grafting branch-like zwitterions via a novel amphiphilic SMA-HEA linker. <i>Journal of Membrane Science</i> , 2021, 624, 119126.	4.1	39
30	Uncovering the effects of PEG porogen molecular weight and concentration on ultrafiltration membrane properties and protein purification performance. <i>Journal of Membrane Science</i> , 2021, 618, 118729.	4.1	38
31	Catalytic oxidization of SO ₂ from incineration flue gas over bimetallic Cu-Ce catalysts supported on pre-oxidized activated carbon. <i>Fuel</i> , 2003, 82, 2285-2290.	3.4	36
32	Preparation and characterization of PPSU/PBNPI blend membrane for hydrogen separation. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 4178-4182.	3.8	34
33	The density and crystallinity properties of PPO-silica mixed-matrix membranes produced via the in situ sol-gel method for H ₂ /CO ₂ separation. II: Effect of thermal annealing treatment. <i>Chemical Engineering Research and Design</i> , 2015, 104, 319-332.	2.7	33
34	Gluconacetobacter xylinus synthesized biocellulose nanofiber membranes with superhydrophilic and superoleophobic underwater properties for the high-efficiency separation of oil/water emulsions. <i>Journal of Membrane Science</i> , 2020, 605, 118091.	4.1	33
35	Al ₂ O ₃ -supported Cu-Co bimetallic catalysts prepared with polyol process for removal of BTEX and PAH in the incineration flue gas. <i>Fuel</i> , 2009, 88, 340-347.	3.4	32
36	Synthesis, characterization, and promoter effect of Cu-Zn/β-Al ₂ O ₃ catalysts on NO reduction with CO. <i>Chemical Engineering Journal</i> , 2010, 160, 13-19.	6.6	32

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37	Improving the mechanical strength and gas separation performance of CMS membranes by simply sintering treatment of γ -Al ₂ O ₃ support. <i>Journal of Membrane Science</i> , 2014, 453, 603-613.	4.1	32
38	Characteristics, morphology, and stabilization mechanism of PAA250K-stabilized bimetal nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 349, 137-144.	2.3	31
39	Modeling Preparation Condition and Composition-Activity Relationship of Perovskite-Type La _x Sr _{1-x} Fe _y Co _{1-y} O _{3-δ} Nano Catalyst. <i>ACS Combinatorial Science</i> , 2013, 15, 609-621.	3.8	31
40	Transesterification of canola oil as biodiesel over Na/Zr-SBA-15 catalysts: Effect of zirconium content. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 19555-19562.	3.8	31
41	Feasibility of using waste polystyrene as a membrane material for gas separation. <i>Chemical Engineering Research and Design</i> , 2016, 111, 204-217.	2.7	30
42	Creation of tiny defects in ZIF-8 by thermal annealing to improve the CO ₂ /N ₂ separation of mixed matrix membranes. <i>Journal of Membrane Science</i> , 2019, 572, 410-418.	4.1	30
43	Emission of carbon dioxide in municipal solid waste incineration in Taiwan: A comparison with thermal power plants. <i>International Journal of Greenhouse Gas Control</i> , 2011, 5, 889-898.	2.3	28
44	Effect of MFI zeolite intermediate layers on gas separation performance of carbon molecular sieve (CMS) membranes. <i>Journal of Membrane Science</i> , 2013, 446, 220-229.	4.1	26
45	The comparison between the polyol process and the impregnation method for the preparation of CNT-supported nanoscale Cu catalyst. <i>Chemical Engineering Journal</i> , 2009, 145, 461-467.	6.6	25
46	A novel technique using reclaimed tire rubber for gas separation membranes. <i>Journal of Membrane Science</i> , 2016, 520, 314-325.	4.1	24
47	Reuse of reclaimed tire rubber for gas-separation membranes prepared by hot-pressing. <i>Journal of Cleaner Production</i> , 2019, 237, 117739.	4.6	24
48	Modeling of catalyst composition-activity relationship of supported catalysts in NH ₃ -NO-SCR process using artificial neural network. <i>Neural Computing and Applications</i> , 2015, 26, 1515-1523.	3.2	23
49	Low band-gap energy photocatalytic membrane based on SrTiO ₃ -Cr and PVDF substrate: BSA protein degradation and separation application. <i>Journal of Membrane Science</i> , 2019, 586, 326-337.	4.1	23
50	Enhanced anti-protein fouling of PVDF membrane via hydrophobic-hydrophobic adsorption of styrene-terminated amphiphilic linker. <i>Chemical Engineering Research and Design</i> , 2020, 156, 273-280.	2.7	23
51	Comparison of visible-light-driven routes of anion-doped TiO ₂ and composite photocatalyst. <i>Journal of the Ceramic Society of Japan</i> , 2009, 117, 753-758.	0.5	22
52	Evaluation of SO ₂ oxidation and fly ash filtration by an activated carbon fluidized-bed reactor: The effects of acid modification, copper addition and operating condition. <i>Fuel</i> , 2010, 89, 732-742.	3.4	21
53	Catalytic removal of NO and PAHs over AC-supported catalysts from incineration flue gas: Bench-scale and pilot-plant tests. <i>Chemical Engineering Journal</i> , 2011, 169, 135-143.	6.6	21
54	Structure-controlled mesoporous SBA-15-derived mixed matrix membranes for H ₂ purification and CO ₂ capture. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 11379-11391.	3.8	21

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55	A facile approach from waste to resource: Reclaimed rubber-derived membrane for dye removal. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 112, 286-295.	2.7	21
56	Interfacial interaction between CMS layer and substrate: Critical factors affecting membrane microstructure and H ₂ and CO ₂ separation performance from CH ₄ . <i>Journal of Membrane Science</i> , 2019, 580, 49-61.	4.1	20
57	Removal of protein, histological dye and tetracycline from simulated bioindustrial wastewater with a dual pore size PPSU membrane. <i>Journal of Hazardous Materials</i> , 2022, 431, 128525.	6.5	19
58	Enhancing the hydrophilicity and biofoulant removal ability of a PVDF ultrafiltration membrane via π - π interactions as measured by AFM. <i>Journal of Membrane Science</i> , 2022, 641, 119874.	4.1	18
59	Photocatalytic removal of NO _x over immobilized BiFeO ₃ nanoparticles and effect of operational parameters. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 994-999.	1.2	17
60	Solvent effects on diffusion channel construction of organosilica membrane with excellent CO ₂ separation properties. <i>Journal of Membrane Science</i> , 2021, 618, 118758.	4.1	17
61	Characterizing PAH emission concentrations in ambient air during a large-scale joss paper open-burning event. <i>Journal of Hazardous Materials</i> , 2008, 156, 223-229.	6.5	16
62	Enhancing the CO ₂ plasticization resistance of PS mixed-matrix membrane by blunt zeolitic imidazolate framework. <i>Journal of CO₂ Utilization</i> , 2018, 25, 79-88.	3.3	16
63	Evaluating the potential of CNT-supported Co catalyst used for gas pollution removal in the incineration flue gas. <i>Journal of Environmental Management</i> , 2009, 90, 1884-1892.	3.8	15
64	Facile synthesis of CO ₂ -selective membrane derived from butyl reclaimed rubber (BRR) for efficient CO ₂ separation. <i>Journal of CO₂ Utilization</i> , 2018, 25, 226-234.	3.3	15
65	Thin carbon hollow fiber membrane with Knudsen diffusion for hydrogen/alkane separation: Effects of hollow fiber module design and gas flow mode. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 7290-7302.	3.8	15
66	Effects of the ratio of Cu/Co and metal precursors on the catalytic activity over Cu-Co/Al ₂ O ₃ prepared using the polyol process. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009, 157, 105-112.	1.7	14
67	Insights into the Role of Polymer Conformation on the Cutoff Size of Carbon Molecular Sieving Membranes for Hydrogen Separation and Its Novel Pore Size Detection Technology. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 5165-5175.	4.0	14
68	SBA-15/CMS composite membrane for H ₂ purification and CO ₂ capture: Effect of pore size, pore volume, and loading weight on separation performance. <i>Microporous and Mesoporous Materials</i> , 2013, 180, 270-279.	2.2	13
69	Characterization of polycyclic aromatic hydrocarbon emission from open burning of joss paper. <i>Atmospheric Environment</i> , 2008, 42, 1692-1701.	1.9	12
70	Development of CMS/Al ₂ O ₃ -supported PPO composite membrane for hydrogen separation. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 3092-3104.	3.8	12
71	A carbon gutter layer-modified γ -Al ₂ O ₃ substrate for PPO membrane fabrication and CO ₂ separation. <i>Journal of Membrane Science</i> , 2014, 454, 51-61.	4.1	12
72	The influence of matrix structure and thermal annealing-hydrophobic layer on the performance and durability of carbon molecular sieving membrane during physical aging. <i>Journal of Membrane Science</i> , 2015, 495, 294-304.	4.1	12

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73	Enhanced catalyst dispersion and structural control of Co ₃ O ₄ -silica nanocomposites by rapid thermal processing. <i>Applied Catalysis B: Environmental</i> , 2020, 262, 118246.	10.8	11
74	Recycling waste plastics as hollow fiber substrates to improve the anti-wettability of supported ionic liquid membranes for CO ₂ separation. <i>Journal of Cleaner Production</i> , 2020, 276, 124194.	4.6	11
75	The Utilization of Catalyst Sorbent in Scrubbing Acid Gases from Incineration Flue Gas. <i>Journal of the Air and Waste Management Association</i> , 2002, 52, 449-458.	0.9	10
76	Effect of copolymer microphase-separated structures on the gas separation performance and aging properties of SBC-derived membranes. <i>Journal of Membrane Science</i> , 2017, 529, 63-71.	4.1	10
77	Fabrication of waterproof gas separation membrane from plastic waste for CO ₂ separation. <i>Environmental Research</i> , 2021, 195, 110760.	3.7	10
78	High loading and high-selectivity H ₂ purification using SBC@ZIF based thin film composite hollow fiber membranes. <i>Journal of Membrane Science</i> , 2021, 626, 119191.	4.1	10
79	Realizing the impact of the intermediate layer structure on the CO ₂ /CH ₄ separation performance of carbon molecular sieving membranes: Insights from experimental synthesis and molecular simulation. <i>Separation and Purification Technology</i> , 2021, 269, 118627.	3.9	10
80	Effect of the preparation method on activity of Cu-ZSM-5 nanocatalyst for the selective reduction of NO by NH ₃ . <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 1852-1861.	1.2	9
81	Impacts of Green Synthesis Process on Asymmetric Hybrid PDMS Membrane for Efficient CO ₂ /N ₂ Separation. <i>Membranes</i> , 2021, 11, 59.	1.4	9
82	Homogeneous sub-nanophase network tailoring of dual organosilica membrane for enhancing CO ₂ gas separation. <i>Journal of Membrane Science</i> , 2022, 644, 120170.	4.1	9
83	Excellent dispersion of solar light responsive photocatalyst in the different polymer films for easy recycling and sustainable hydrogen production. <i>Solar Energy</i> , 2022, 231, 949-957.	2.9	9
84	Tuning thermal expansion behavior and surface roughness of tubular Al ₂ O ₃ substrates for fabricating high-performance carbon molecular sieving membranes for H ₂ separation. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 24746-24758.	3.8	8
85	Synthesis of BiFeO ₃ nanoparticles for the photocatalytic removal of chlorobenzene and a study of the effective parameters. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2020, 131, 437-452.	0.8	8
86	The Viable Fabrication of Gas Separation Membrane Used by Reclaimed Rubber from Waste Tires. <i>Polymers</i> , 2020, 12, 2540.	2.0	8
87	Description of the gas transport through dynamic liquid membrane. <i>Separation and Purification Technology</i> , 2017, 184, 152-157.	3.9	7
88	Characterization and photoactivity of Pt/N-doped TiO ₂ synthesized through a sol-gel process at room temperature. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	6
89	Uniformity control and ultra-micropore development of tubular carbon membrane for light gas separation. <i>AIChE Journal</i> , 2020, 66, e16226.	1.8	6
90	Tailored Pt/TiO ₂ Photocatalyst with Controllable Phase Prepared via a Modified Sol-Gel Process for Dye Degradation. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 2235-2240.	0.9	5

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91	Effect of heat diffusivity for driving chain stitching of dual-type hybrid organosilica-derived membranes. Separation and Purification Technology, 2022, 290, 120848.	3.9	5
92	Effects of metal precursor in the sol-gel synthesis on the physicochemical properties of Pd/Al ₂ O ₃ -CeO ₂ catalyst: CO oxidation. Journal of Non-Crystalline Solids, 2006, 352, 2166-2172.	1.5	4
93	Silica gel-coated silicon carbide layer deposited by atmospheric plasma spraying. Journal of the Taiwan Institute of Chemical Engineers, 2020, 110, 173-181.	2.7	4
94	Highly Permeable Mixed Matrix Hollow Fiber Membrane as a Latent Route for Hydrogen Purification from Hydrocarbons/Carbon Dioxide. Membranes, 2021, 11, 865.	1.4	4
95	Pore Structure Effects on Ca-Based Sorbent Sulfation Capacity at Medium Temperatures: Activated Carbon as Sorbent/Catalyst Support. Journal of the Air and Waste Management Association, 2002, 52, 1281-1287.	0.9	3
96	Effects of crosslinking modification on the O ₂ /N ₂ separation characteristics of poly(phenyl sulfone)/poly(bisphenol A-co-4-nitrophthalic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 Td (anhydride-co) 116, 1254-1263.	1.3	3
97	A Numerical Simulation and Experimental Comparison of Atmospheric Thermal Plasma Spray Coatings Between Internal and External Powder Injection Processes. IEEE Transactions on Plasma Science, 2020, 48, 2759-2767.	0.6	3
98	Photo-induced poly(styrene-[C1mim][Tf2N])-supported hollow fiber ionic liquid membranes to enhance CO ₂ separation. Journal of CO ₂ Utilization, 2022, 56, 101871.	3.3	3
99	Enhanced O ₂ /N ₂ separation performance of poly(phenylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 542 Td (anhydride-co) 2010, , .	1.8	2
100	Mesoporous Cu/SAB-15 as potential catalysts for SCR NO _x by CO. , 2010, , .		1
101	Influence of supports structure on the synthesis of biodiesel from canola oil. , 2010, , .		0
102	Permeation performance of Cellulose acetate propionate/polyvinylidene fluoride blend membranes by phase inversion. , 2010, , .		0
103	Preparation and characterization of PPSU/PEI blend membranes. , 2010, , .		0
104	The permeation performance of SBA-15/CAP/PVDF blend membranes. , 2010, , .		0
105	Removal of Antibiotics and Histological Dyes from Simulated Bio-Industrial Wastewater with a Dual Pore Size PPSU Membrane. SSRN Electronic Journal, 0, , .	0.4	0
106	Carbon membrane for the application in gas separation: recent development and prospects. , 2022, , 177-214.		0