

Xiaobin Wang

List of Publications by Year in descending order

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31
papers

874
citations

471509

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times ranked

833
citing authors

#	ARTICLE	IF	CITATIONS
1	Vacuum-assisted continuous flow electroless plating approach for high performance Pd membrane deposition on ceramic hollow fiber lumen. <i>Journal of Membrane Science</i> , 2022, 645, 120207.	8.2	12
2	ZIF-67 membranes supported on porous ZnO hollow fibers for hydrogen separation from gas mixtures. <i>Journal of Membrane Science</i> , 2022, 653, 120550.	8.2	17
3	Modified high-efficiency carbon material for deep degradation of phenol by activating persulfate. <i>Chemosphere</i> , 2022, 298, 134135.	8.2	12
4	A dual-layer ZnO-Al ₂ O ₃ hollow fiber for directly inducing the formation of ZIF membrane. <i>Journal of Membrane Science</i> , 2021, 640, 119851.	8.2	21
5	CO ₂ and Steam-Assisted H ₂ Separation through BaCe _{0.8} Y _{0.2} O _{3-δ} /Ce _{0.8} Y _{0.2} O _{3-δ} Hollow Fiber Membranes. <i>Energy & Fuels</i> , 2020, 34, 683-689.		5
6	Preparation of ZIF-8 Membranes on Porous ZnO Hollow Fibers by a Facile ZnO-Induced Method. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 15576-15585.	3.7	18
7	Dual-layer BaCe _{0.8} Y _{0.2} O _{3-δ} /Ce _{0.8} Y _{0.2} O _{3-δ} /Ni hollow fiber membranes for H ₂ separation. <i>Journal of Membrane Science</i> , 2020, 601, 117801.	8.2	23
8	Growth of ZIF-8 Membranes on Ceramic Hollow Fibers by Conversion of Zinc Oxide Particles. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 19511-19518.	3.7	12
9	A Pd-TSH composite membrane reactor for one-step oxidation of benzene to phenol. <i>Chemical Communications</i> , 2019, 55, 7745-7748.	4.1	5
10	Asymmetric nickel hollow fibres as the catalytic membrane reactor for CO ₂ hydrogenation into syngas. <i>Chemical Communications</i> , 2019, 55, 4226-4229.	4.1	8
11	A simple seed-embedded method to prepare ZIF-8 membranes supported on flexible PESf hollow fibers. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 72, 222-231.	5.8	25
12	Hydrogen permeation performance of dual-phase protonic-electronic conducting ceramic membrane with regular and independent transport channels. <i>Separation and Purification Technology</i> , 2019, 213, 515-523.	7.9	18
13	An unprecedented high-temperature-tolerance 2D lamellar MXene membrane for ultrafast hydrogen sieving. <i>Journal of Membrane Science</i> , 2019, 569, 117-123.	8.2	87
14	Catalytic palladium membrane reactors for one-step benzene hydroxylation to phenol. <i>Journal of Membrane Science</i> , 2018, 563, 864-872.	8.2	16
15	A simple embedded-seeding method to prepare silicalite-1 membrane on porous Al ₂ O ₃ hollow fibers. <i>Materials Letters</i> , 2017, 194, 122-125.	2.6	6
16	Formation of continuous and highly permeable ZIF-8 membranes on porous alumina and zinc oxide hollow fibers. <i>Chemical Communications</i> , 2016, 52, 13448-13451.	4.1	42
17	SrCe _{0.95} Y _{0.05} O _{3-δ} /ZnO dual-phase membranes for hydrogen permeation. <i>RSC Advances</i> , 2016, 6, 36786-36793.	3.6	21
18	Influence of silicalite-1 nanoparticle seeds on the synthesis of Ti-containing mesoporous zeolites. <i>Chemical Engineering Journal</i> , 2016, 289, 494-501.	12.7	10

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19	Synthesis of stable Ti-containing mesoporous tubular membrane using silicalite-1 nanoparticles as seeds. <i>Chemical Engineering Journal</i> , 2014, 255, 344-355.	12.7	4
20	Direct Hydroxylation of Benzene to Phenol Using Palladium-Titanium Silicalite Zeolite Bifunctional Membrane Reactors. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 5636-5645.	3.7	31
21	One-step hydroxylation of benzene to phenol via a Pd capillary membrane microreactor. <i>Catalysis Science and Technology</i> , 2013, 3, 2380.	4.1	18
22	TS-1 zeolite as an effective diffusion barrier for highly stable Pd membrane supported on macroporous γ -Al ₂ O ₃ tube. <i>RSC Advances</i> , 2013, 3, 4821.	3.6	28
23	Investigation of Pd membrane reactors for one-step hydroxylation of benzene to phenol. <i>Catalysis Today</i> , 2012, 193, 151-157.	4.4	24
24	Performance of TS-1-Coated Structured Packing Materials for Styrene Oxidation Reaction. <i>ACS Catalysis</i> , 2011, 1, 437-445.	11.2	55
25	Investigating the Role of Zeolite Nanocrystal Seeds in the Synthesis of Mesoporous Catalysts with Zeolite Wall Structure. <i>Chemistry of Materials</i> , 2011, 23, 4469-4479.	6.7	66
26	Preparation and performance of TS-1/SiO ₂ egg-shell catalysts. <i>Chemical Engineering Journal</i> , 2011, 175, 408-416.	12.7	45
27	Preparation of titanium silicalite-1 catalytic films and application as catalytic membrane reactors. <i>Chemical Engineering Journal</i> , 2010, 156, 562-570.	12.7	77
28	A novel approach for the preparation of highly stable Pd membrane on macroporous γ -Al ₂ O ₃ tube. <i>Journal of Membrane Science</i> , 2010, 362, 241-248.	8.2	35
29	Catalytic properties of benzene hydroxylation by TS-1 film reactor and Pd-TS-1 composite membrane reactor. <i>Catalysis Today</i> , 2010, 156, 288-294.	4.4	51
30	Pd-silicalite-1 composite membrane reactor for direct hydroxylation of benzene to phenol. <i>Catalysis Today</i> , 2010, 156, 282-287.	4.4	14
31	Preparation and properties of TS-1 zeolite and film using Sil-1 nanoparticles as seeds. <i>Chemical Engineering Journal</i> , 2009, 147, 316-322.	12.7	68