David Alique

List of Publications by Year
in descending order

27	608	566801 15	580395 25
papers	citations	h-index	g-index

27	27	27	446
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Review of Supported Pd-Based Membranes Preparation by Electroless Plating for Ultra-Pure Hydrogen Production. Membranes, 2018, 8, 5.	1.4	103
2	Preparation, testing and modelling of a hydrogen selective Pd/YSZ/SS composite membrane. International Journal of Hydrogen Energy, 2011, 36, 15783-15793.	3.8	53
3	H2 production via water gas shift in a composite Pd membrane reactor prepared by the pore-plating method. International Journal of Hydrogen Energy, 2014, 39, 4739-4748.	3.8	43
4	New synthesis method of Pd membranes over tubular PSS supports via â€œpore-platingâ€•for hydrogen separation processes. International Journal of Hydrogen Energy, 2012, 37, 18476-18485.	3.8	40
5	Hydrogen permeation in composite Pd-membranes prepared by conventional electroless plating and electroless pore-plating alternatives over ceramic and metallic supports. International Journal of Hydrogen Energy, 2016, 41, 19430-19438.	3.8	40
6	On the energy efficiency of hydrogen production processes via steam reforming using membrane reactors. International Journal of Hydrogen Energy, 2019, 44, 988-999.	3.8	38
7	Influence of the type of siliceous material used as intermediate layer in the preparation of hydrogen selective palladium composite membranes over a porous stainless steel support. International Journal of Hydrogen Energy, 2012, 37, 6030-6042.	3.8	36
8	Hydrogen production in a Pore-Plated Pd-membrane reactor: Experimental analysis and model validation for the Water Gas Shift reaction. International Journal of Hydrogen Energy, 2015, 40, 3472-3484.	3.8	33
9	Thermal stability and effect of typical water gas shift reactant composition on H2 permeability through a Pd-YSZ-PSS composite membrane. International Journal of Hydrogen Energy, 2014, 39, 1398-1409.	3.8	32
10	Stability of pore-plated membranes for hydrogen production in fluidized-bed membrane reactors. International Journal of Hydrogen Energy, 2020, 45, 7374-7385.	3.8	27
11	Modelling and simulation of permeation behaviour on Pd/PSS composite membranes prepared by â€œpore-platingâ€•method. Journal of Membrane Science, 2013, 446, 410-421.	4.1	22
12	H2 permeation increase of electroless pore-plated Pd/PSS membranes with CeO2 intermediate barriers. Separation and Purification Technology, 2019, 216, 16-24.	3.9	22
13	Influence of the selective layer morphology on the permeation properties for Pd-PSS composite membranes prepared by electroless pore-plating: Experimental and modeling study. Separation and Purification Technology, 2018, 194, 10-18.	3.9	21
14	Interlayer Properties of In-Situ Oxidized Porous Stainless Steel for Preparation of Composite Pd Membranes. ChemEngineering, 2018, 2, 1.	1.0	21
15	Pd-thickness reduction in electroless pore-plated membranes by using doped-ceria as interlayer. International Journal of Hydrogen Energy, 2020, 45, 7278-7289.	3.8	16
16	Ultra-Pure Hydrogen via Co-Valorization of Olive Mill Wastewater and Bioethanol in Pd-Membrane Reactors. Processes, 2020, 8, 219.	1.3	13
17	Systematic experimental assessment of concentration polarization and inhibition in Pd-based membranes for hydrogen purification. Fuel Processing Technology, 2021, 213, 106661.	3.7	10
18	Influence of Si and Fe/Cr oxides as intermediate layers in the fabrication of supported Pd membranes. Separation and Purification Technology, 2020, 234, 116091.	3.9	8

#	Article	IF	Citations
19	Pre-activation of SBA-15 intermediate barriers with Pd nuclei to increase thermal and mechanical resistances of pore-plated Pd-membranes. International Journal of Hydrogen Energy, 2021, 46, 20198-20212.	3.8	8
20	Preliminary Equipment Design for On-Board Hydrogen Production by Steam Reforming in Palladium Membrane Reactors. ChemEngineering, 2019, 3, 6.	1.0	6
21	Effective H2 Separation through Electroless Pore-Plated Pd Membranes Containing Graphite Lead Barriers. Membranes, 2020, 10, 410.	1.4	4
22	Membrane gas-liquid contactor for tritium extraction from Pb-Li alloys. Fusion Engineering and Design, 2020, 158, 111737.	1.0	3
23	Modeling of H2 Permeation through Electroless Pore-Plated Composite Pd Membranes Using Computational Fluid Dynamics. Membranes, 2021, 11, 123.	1.4	3
24	Study of a stainless steel porous membrane for recovering tritium from Pb-Li alloys: Assessment of mass transfer coefficient. Fusion Engineering and Design, 2021, 168, 112423.	1.0	2
25	Processing and Characterization of Coating and Thin Film Materials. , 2018, , 27-72.		2
26	Versatile and Resistant Electroless Pore-Plated Pd-Membranes for H2-Separation: Morphology and Performance of Internal Layers in PSS Tubes. Membranes, 2022, 12, 530.	1.4	2
27	Reactors for Process Intensification: Recent Advances and Key Applications. Membranes, 2021, 11, 745.	1.4	0