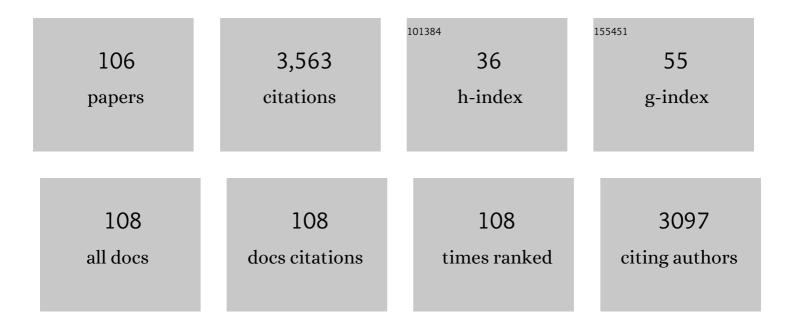
David Alfredo Pacheco Tanaka

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Effect of incorporation of graphene oxide and graphene nanoplatelets on mechanical and gas permeability properties of poly(lactic acid) films. Polymer International, 2013, 62, 33-40.	1.6	261
2	Preparation of palladium and silver alloy membrane on a porous α-alumina tube via simultaneous electroless plating. Journal of Membrane Science, 2005, 247, 21-27.	4.1	134
3	Hydrogen permeability study of the thin Pd–Ag alloy membranes in the temperature range across the α–β phase transition. Journal of Membrane Science, 2006, 282, 370-374.	4.1	128
4	Reduced graphene oxide films as transparent counter-electrodes for dye-sensitized solar cells. Solar Energy, 2012, 86, 716-724.	2.9	111
5	CuO/ZnO catalysts for methanol steam reforming: The role of the support polarity ratio and surface area. Applied Catalysis B: Environmental, 2015, 174-175, 67-76.	10.8	107
6	Development of thin Pd–Ag supported membranes for fluidized bed membrane reactors including WGS related gases. International Journal of Hydrogen Energy, 2015, 40, 3506-3519.	3.8	98
7	Fabrication of Hydrogen-Permeable Composite Membranes Packed with Palladium Nanoparticles. Advanced Materials, 2006, 18, 630-632.	11.1	83
8	Preparation and characterization of metallic supported thin Pd–Ag membranes for hydrogen separation. Chemical Engineering Journal, 2016, 305, 182-190.	6.6	83
9	Recent Advances in Pd-Based Membranes for Membrane Reactors. Molecules, 2017, 22, 51.	1.7	82
10	Techno-economic evaluation on a hybrid technology for low hydrogen concentration separation and purification from natural gas grid. International Journal of Hydrogen Energy, 2020, 46, 23417-23417.	3.8	76
11	Composite phenolic resin-based carbon molecular sieve membranes for gas separation. Carbon, 2011, 49, 4348-4358.	5.4	74
12	An investigation of thermal stability of thin palladium–silver alloy membranes for high temperature hydrogen separation. Journal of Membrane Science, 2011, 366, 212-219.	4.1	72
13	Palladium based membranes and membrane reactors for hydrogen production and purification: An overview of research activities at Tecnalia and TU/e. International Journal of Hydrogen Energy, 2017, 42, 13763-13776.	3.8	70
14	Mixed Ionic-Electronic Conducting Membranes (MIEC) for Their Application in Membrane Reactors: A Review. Processes, 2019, 7, 128.	1.3	68
15	Growth of nano-textured graphene coatings across highly porous stainless steel supports towards corrosion resistant coatings. Carbon, 2015, 87, 395-408.	5.4	65
16	Pd-based metallic supported membranes: High-temperature stability and fluidized bed reactor testing. International Journal of Hydrogen Energy, 2016, 41, 8706-8718.	3.8	60
17	Preparation and characterization of thin-film Pd–Ag supported membranes for high-temperature applications. International Journal of Hydrogen Energy, 2015, 40, 13463-13478.	3.8	58
18	Preparation and characterization of ceramic supported ultra-thin (~1 µm) Pd-Ag membranes. Journal of Membrane Science, 2017, 528, 12-23.	4.1	57

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19	Preparation of "pore-fill―type Pd–YSZ–î³-Al2O3 composite membrane supported on α-Al2O3 tube for hydrogen separation. Journal of Membrane Science, 2008, 320, 436-441.	4.1	56
20	ADSORPTION CHARACTERISTICS AND REMOVAL OF OXO-ANIONS OF ARSENIC AND SELENIUM ON THE POROUS POLYMERS LOADED WITH MONOCLINIC HYDROUS ZIRCONIUM OXIDE. Separation Science and Technology, 2001, 36, 103-111.	1.3	55
21	The influence of the support composition on the physicochemical and catalytic properties of Cu catalysts supported on Zirconia-Alumina for methanol steam reforming. Applied Catalysis B: Environmental, 2020, 277, 119243.	10.8	53
22	Composite-alumina-carbon molecular sieve membranes prepared from novolac resin and boehmite. Part II: Effect of the carbonization temperature on the gas permeation properties. International Journal of Hydrogen Energy, 2015, 40, 3485-3496.	3.8	52
23	Direct route from ethanol to pure hydrogen through autothermal reforming in a membrane reactor: Experimental demonstration, reactor modelling and design. Energy, 2018, 143, 666-681.	4.5	51
24	Development of Pd-based double-skinned membranes for hydrogen production in fluidized bed membrane reactors. Journal of Membrane Science, 2018, 550, 536-544.	4.1	50
25	Syngas upgrading in a membrane reactor with thin Pd-alloy supported membrane. International Journal of Hydrogen Energy, 2015, 40, 10883-10893.	3.8	49
26	The membrane-assisted chemical looping reforming concept for efficient H2 production with inherent CO2 capture: Experimental demonstration and model validation. Applied Energy, 2018, 215, 75-86.	5.1	49
27	Composite-alumina-carbon molecular sieve membranes prepared from novolac resin and boehmite. Part I: Preparation, characterization and gas permeation studies. International Journal of Hydrogen Energy, 2015, 40, 5653-5663.	3.8	48
28	Adsorption and removal of oxo-anions of arsenic and selenium on the zirconium(iv) loaded polymer resin functionalized with diethylenetriamine-N,N,N′,N′-polyacetic acid. Journal of Environmental Monitoring, 2000, 2, 550-555.	2.1	46
29	Fluidized Bed Membrane Reactors for Ultra Pure H2 Production—A Step forward towards Commercialization. Molecules, 2016, 21, 376.	1.7	45
30	On concentration polarisation in a fluidized bed membrane reactor for biogas steam reforming: Modelling and experimental validation. Chemical Engineering Journal, 2018, 348, 232-243.	6.6	44
31	Importance of the support material in thin palladium composite membranes for steady hydrogen permeation at elevated temperatures. Physical Chemistry Chemical Physics, 2009, 11, 8632.	1.3	43
32	Boehmite-phenolic resin carbon molecular sieve membranes—Permeation and adsorption studies. Chemical Engineering Research and Design, 2014, 92, 2668-2680.	2.7	43
33	Preparation of porous chelating resin containing linear polymer ligand and the adsorption characteristics for harmful metal ions. Reactive and Functional Polymers, 2002, 53, 91-101.	2.0	41
34	Carbon–Al2O3–Ag composite molecular sieve membranes for gas separation. Chemical Engineering Research and Design, 2012, 90, 2338-2345.	2.7	40
35	Attrition-resistant membranes for fluidized-bed membrane reactors: Double-skin membranes. Journal of Membrane Science, 2018, 563, 419-426.	4.1	40
36	Hydrogen production with integrated CO2 capture in a membrane assisted gas switching reforming reactor: Proof-of-Concept. International Journal of Hydrogen Energy, 2018, 43, 6177-6190.	3.8	39

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37	Recent Advances on Carbon Molecular Sieve Membranes (CMSMs) and Reactors. Processes, 2016, 4, 29.	1.3	35
38	Thermodynamics of Calix(4)arene Esters. 1. Complexation of Alkyl p-tert-Butylcalix(4)arenetetraethanoates and Alkali-Metal Cations in Acetonitrile and in Benzonitrile. The Journal of Physical Chemistry, 1995, 99, 16776-16780.	2.9	34
39	Development of highly permeable ultra-thin Pd-based supported membranes. Chemical Engineering Journal, 2016, 305, 149-155.	6.6	34
40	Effect of sweep gas on hydrogen permeation of supported Pd membranes: Experimental and modeling. International Journal of Hydrogen Energy, 2019, 44, 4228-4239.	3.8	34
41	In situ high-temperature X-ray diffraction study of thin palladium/α-alumina composite membranes and their hydrogen permeation properties. Journal of Membrane Science, 2009, 335, 126-132.	4.1	33
42	From neutral to ionic species: amine–p-tert-butylcalix(n)arene (n= 6, 8) interaction. Electrochemical, thermodynamic and structural studies in benzonitrile. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 2727-2736.	1.7	32
43	Effect of Au addition on hydrogen permeation and the resistance to H2S on Pd-Ag alloy membranes. Journal of Membrane Science, 2017, 542, 329-341.	4.1	31
44	Fluorometric detection of fluoride ion by ligand exchange reaction with 3-hydroxyflavone coordinated to a zirconium(iv)–EDTA complex. Perkin Transactions II RSC, 2002, , 759-762.	1.1	30
45	Long-Term Stability of Thin-Film Pd-Based Supported Membranes. Processes, 2019, 7, 106.	1.3	30
46	Separation and concentration of trace Pb(II) by the porous resin loaded with α-zirconium phosphate crystals. Reactive and Functional Polymers, 2004, 58, 131-138.	2.0	27
47	Direct production of hydrogen peroxide from oxygen and hydrogen applying membrane-permeation mechanism. Chemical Engineering Science, 2010, 65, 436-440.	1.9	26
48	A Density Functional Study To Choose the Best Fluorophore for Photon-Induced Electron-Transfer (PET) Sensors. Chemistry - A European Journal, 2003, 9, 3920-3929.	1.7	25
49	Adsorption of fluoride ion on the zirconium(IV) complexes of the chelating resins functionalized with amine-N-acetate ligands. Separation Science and Technology, 2002, 37, 877-894.	1.3	24
50	Strong Interaction at the Palladium/Alumina Interface of Membrane during Hydrogen Permeation at Elevated Temperature. Chemistry Letters, 2008, 37, 1004-1005.	0.7	24
51	Advanced m-CHP fuel cell system based on a novel bio-ethanol fluidized bed membrane reformer. International Journal of Hydrogen Energy, 2017, 42, 13970-13987.	3.8	24
52	Upgrading biogas with novel composite carbon molecular sieve (CCMS) membranes: Experimental and techno-economic assessment. Chemical Engineering Journal, 2020, 394, 124957.	6.6	24
53	Acid precipitation followed by microalgae (Chlorella vulgaris) cultivation as a new approach for poultry slaughterhouse wastewater treatment. Bioresource Technology, 2021, 335, 125284.	4.8	23
54	Equilibrium and kinetic studies on the complexation of boric acid with chromotropic acid. Dalton Transactions RSC, 2000, , 3136-3142.	2.3	22

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55	Preparation and Hydrogen Permeation Properties of Thin Pd-Au Alloy Membranes Supported on Porous α-Alumina Tube. Materials Transactions, 2008, 49, 449-452.	0.4	22
56	Silica Capillary with Thin Metal (Pd and Pt) Inner Wall: Application to Continuous Decomposition of Hydrogen Peroxide. Chemistry Letters, 2009, 38, 146-147.	0.7	22
57	Lower Temperature Dehydrogenation of Methylcyclohexane by Membrane-assisted Equilibrium Shift. Chemistry Letters, 2006, 35, 1372-1373.	0.7	21
58	Tailoring pore structure and surface chemistry of microporous Alumina-Carbon Molecular Sieve Membranes (Al-CMSMs) by altering carbonization temperature for optimal gas separation performance: An investigation using low-field NMR relaxation measurements. Chemical Engineering Journal, 2021, 424, 129313.	6.6	21
59	Complexation and removal of trace boron from aqueous solution by an anion exchange resin loaded with chromotropic acid (disodium 2,7-dihydroxynaphthalene-4,5-disulfonate). Journal of the Chemical Society Dalton Transactions, 1999, , 1639-1644.	1.1	20
60	Hydrogen permeation and stability in ultra-thin Pd Ru supported membranes. International Journal of Hydrogen Energy, 2020, 45, 7455-7467.	3.8	20
61	Thermodynamics of protonation and complexation of EDTA derivatives and metal cations in water. Journal of the Chemical Society, Faraday Transactions, 1998, 94, 3105-3110.	1.7	19
62	N2, He and CO2 diffusion mechanism through nanoporous YSZ/γ-Al2O3 layers and their use in a pore-filled membrane for hydrogen membrane reactors. International Journal of Hydrogen Energy, 2016, 41, 8732-8744.	3.8	19
63	Catalytic nickel and nickel–copper alloy hollow-fiber membranes for the remediation of organic pollutants by electrocatalysis. Journal of Materials Chemistry A, 2018, 6, 6904-6915.	5.2	18
64	Influence of H2S on the hydrogen flux of thin-film PdAgAu membranes. International Journal of Hydrogen Energy, 2020, 45, 7303-7312.	3.8	18
65	New hydrophilic carbon molecular sieve membranes for bioethanol dehydration via pervaporation. Chemical Engineering Journal, 2022, 435, 134891.	6.6	18
66	Hydrogen permeation studies of composite supported alumina-carbon molecular sieves membranes: Separation of diluted hydrogen from mixtures with methane. International Journal of Hydrogen Energy, 2021, 46, 19758-19767.	3.8	17
67	Emerging contaminants, SARS-COV-2 and wastewater treatment plants, new challenges to confront: A short review. Bioresource Technology Reports, 2021, 15, 100731.	1.5	17
68	Catalytic membrane reactor for the production of biofuels. Catalysis Today, 2016, 268, 37-45.	2.2	16
69	Thermodynamic and electrochemical aspects of the interactions of functionalised calix(4)arenes and metal cations in 'allosteric media'. Pure and Applied Chemistry, 1994, 66, 435-440.	0.9	15
70	Advances in membranes and membrane reactors for the Fischer-Tropsch synthesis process for biofuel production. Reviews in Chemical Engineering, 2022, 38, 55-76.	2.3	15
71	From molecules to electrolytes. Electrochemical and thermodynamic aspects of the interaction of phenol and resorcinol based calixarenes with amines. Pure and Applied Chemistry, 1993, 65, 415-422.	0.9	14
72	Preparation and characterization of crosslinked PVAL membranes loaded with boehmite nanoparticles for fuel cell applications. Journal of Applied Polymer Science, 2014, 131, .	1.3	14

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73	Simple hydrothermal synthesis method for tailoring the physicochemical properties of ZnO: morphology, surface area and polarity. RSC Advances, 2014, 4, 31166.	1.7	14
74	Comparison between carbon molecular sieve and Pd-Ag membranes in H2-CH4 separation at high pressure. International Journal of Hydrogen Energy, 2020, 45, 28876-28892.	3.8	14
75	Controlled Heating of Palladium Dispersed Porous Alumina Tube and Continuous Oxidation of Ethylene Using Frequency-Variable Single-Mode Microwave Reactor. Industrial & Engineering Chemistry Research, 2014, 53, 1073-1078.	1.8	13
76	Unravelling the transport mechanism of pore-filled membranes for hydrogen separation. Separation and Purification Technology, 2018, 203, 41-47.	3.9	13
77	Simple detection of trace Pb2+ by enrichment on cerium phosphate membrane filter coupled with color signaling. Analyst, The, 2005, 130, 1537.	1.7	12
78	Effect of β-cyclodextrin on the transfer of N1-substituted sulfonamides from water to chloroform. Journal of the Chemical Society, Faraday Transactions, 1992, 88, 1665-1668.	1.7	11
79	Thermodynamic and electrochemical aspects ofp-tert-butylcalix[n]arenes (n=4, 6, 8) and their interactions with amines. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 1994, 19, 371-387.	1.6	11
80	Systematic experimental assessment of concentration polarization and inhibition in Pd-based membranes for hydrogen purification. Fuel Processing Technology, 2021, 213, 106661.	3.7	10
81	First report on electrochemical, thermodynamic and structural aspects of the interaction of p-tert-butylcalix[8]arene and cryptands in benzonitrile. Journal of the Chemical Society Chemical Communications, 1992, , 855-856.	2.0	8
82	Morphology and N2 Permeance of Sputtered Pd-Ag Ultra-Thin Film Membranes. Molecules, 2016, 21, 210.	1.7	8
83	Preparation of Porous Stainless Steel Hollow-Fibers through Multi-Modal Particle Size Sintering towards Pore Engineering. Membranes, 2017, 7, 40.	1.4	8
84	Water Adsorption Effect on Carbon Molecular Sieve Membranes in H2-CH4 Mixture at High Pressure. Energies, 2020, 13, 3577.	1.6	7
85	Vapor/gas separation through carbon molecular sieve membranes: Experimental and theoretical investigation. International Journal of Hydrogen Energy, 2022, 47, 11385-11401.	3.8	7
86	Fabrication of supported palladium alloy membranes using electroless plating techniques. , 2015, , 83-99.		6
87	Effect of aluminium acetyl acetonate on the hydrogen and nitrogen permeation of carbon molecular sieves membranes. International Journal of Hydrogen Energy, 2022, 47, 14570-14579.	3.8	6
88	Alternative methods for cleaning membranes in water and wastewater treatment. Water Environment Research, 2022, 94, e10708.	1.3	6
89	Membranes utilization for biogas upgrading to synthetic natural gas. , 2019, , 245-274.		5

90 Metallic membranes for hydrogen separation. , 2020, , 1-29.

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91	On the use of double-skinned membranes to prevent chemical interaction between membranes and catalysts. International Journal of Hydrogen Energy, 2021, 46, 20240-20244.	3.8	4
92	Switching of PET Fluorescence Signals Induced by Ligand Exchange Reactions of N-(9-Anthrylmethyl)amine on Cu(II) Complexes and Its Application to Postcolumn Detection of Glyphosate. Analytical Sciences, 2005, 21, 417-420.	0.8	3
93	Membrane Optimization and Process Condition Investigation for Enhancing the CO2 Separation From Natural Gas. , 2018, , 469-509.		3
94	Membrane reactors using metallic membranes. , 2020, , 235-260.		3
95	Continuous Cultivation of Microalgae in Cattle Slaughterhouse Wastewater Treated with Hydrodynamic Cavitation. Water (Switzerland), 2022, 14, 1288.	1.2	3
96	Switching of Terbium(III)-sensitized Luminescence by Ligand Exchange Reaction: Determination of Catecholamines. Chemistry Letters, 2002, 31, 722-723.	0.7	2
97	Preparation of Porous Carbon Spheres Dispersed with Pd–Ag Alloy Nanoparticles. Chemistry Letters, 2007, 36, 152-153.	0.7	2
98	Metallic porous supports and ceramic interface layer development for H ₂ separation membranes. Powder Metallurgy, 2014, 57, 232-235.	0.9	2
99	Fusion Exhaust Gas Separation with a Carbon Molecular Sieve (CMS) Membrane. InterCeram: International Ceramic Review, 2019, 68, 14-17.	0.2	2
100	An overview of some recent european projects on metallic membranes. , 2020, , 313-379.		2
101	Aging Studies of Composite Alumina Carbon Molecular Sieve Membranes. Procedia Engineering, 2012, 44, 639-641.	1.2	1
102	Membrane reactors for autothermal reforming of methane, methanol, and ethanol. , 2015, , 61-98.		1
103	Ethanol Reforming in Thermally Coupled, Fluidized-Bed, Bubble Column, and Membrane Reactors. , 2019, , 355-382.		1
104	Loading of Crystalline .ALPHAzirconium Phosphate onto Porous Materials:-Preparation and Application to the Concentration of Trace Ions Journal of Ion Exchange, 2003, 14, 93-96.	0.1	1
105	Hydrogen Gas Diffusion Electrode Prepared from Porous Carbon Spheres Dispersed with Pd–Ag Alloy Nanoparticles. Bulletin of the Chemical Society of Japan, 2007, 80, 2243-2245.	2.0	0
106	Preparation and Characterization of Pd-Ag Alloy Membranes via Simultaneous Plating by Continuous Addition of Ag to the Electroless Plating Solution. Procedia Engineering, 2012, 44, 1002-1004.	1.2	0