

Antonio Comite

List of Publications by Year in descending order

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75
papers

1,897
citations

236912

25
h-index

276858

41
g-index

76
all docs

76
docs citations

76
times ranked

2336
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation and characterization of novel porous PVDF-ZrO ₂ composite membranes. <i>Desalination</i> , 2002, 146, 35-40.	8.2	279
2	Polymer Distributed Bragg Reflectors for Vapor Sensing. <i>ACS Photonics</i> , 2015, 2, 537-543.	6.6	100
3	Novel hydrophobic PVDF membranes prepared by nonsolvent induced phase separation for membrane distillation. <i>Journal of Membrane Science</i> , 2020, 596, 117575.	8.2	88
4	Steam Reforming of Methane in a Membrane Reactor: An Industrial Case Study. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 2994-3000.	3.7	79
5	NIR-reflecting properties of new paints for energy-efficient buildings. <i>Solar Energy</i> , 2015, 116, 108-116.	6.1	77
6	CO ₂ removal from a gas stream by membrane contactor. <i>Separation and Purification Technology</i> , 2008, 59, 85-90.	7.9	71
7	Novel porous poly (vinylidene fluoride) membranes for membrane distillation. <i>Desalination</i> , 2005, 183, 375-382.	8.2	67
8	Nafion [®] -Zirconium Phosphate Nanocomposite Membranes with High Filler Loadings: Conductivity and Mechanical Properties. <i>Fuel Cells</i> , 2008, 8, 217-224.	2.4	65
9	Evaluation of the water gas shift reaction in a palladium membrane reactor. <i>Catalysis Today</i> , 2010, 156, 165-172.	4.4	60
10	Supported vanadium oxide-based catalysts for the oxidehydrogenation of propane under cyclic conditions. <i>Catalysis Today</i> , 2004, 91-92, 99-104.	4.4	42
11	Preparation and characterisation of Rh/Al ₂ O ₃ catalysts and their application in the adiponitrile partial hydrogenation and styrene hydroformylation. <i>Applied Catalysis A: General</i> , 2005, 292, 105-112.	4.3	42
12	Oxidative dehydrogenation of propane using V ₂ O ₅ /TiO ₂ /SiO ₂ catalysts prepared by grafting titanium and vanadium alkoxides on silica. <i>Journal of Molecular Catalysis A</i> , 2003, 198, 151-165.	4.8	38
13	Effect of preparative parameters on the characteristic of poly(vinylidene fluoride)-based microporous layer for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2008, 183, 62-68.	7.8	37
14	Polymeric and ceramic membranes in three-phase catalytic membrane reactors for the hydrogenation of methylenecyclohexane. <i>Desalination</i> , 2002, 144, 411-416.	8.2	36
15	Kinetic investigations on the oxidehydrogenation of propane over vanadium supported on γ -Al ₂ O ₃ . <i>Chemical Engineering Journal</i> , 2003, 94, 11-18.	12.7	36
16	Critical flux in submerged membrane bioreactors for municipal wastewater treatment. <i>Desalination</i> , 2009, 245, 748-753.	8.2	36
17	Novel porous membranes from chemically modified poly(vinylidene fluoride). <i>Journal of Membrane Science</i> , 2006, 273, 20-24.	8.2	34
18	The catalytic hydrogenation of adiponitrile to hexamethylenediamine over a rhodium/alumina catalyst in a three phase slurry reactor. <i>Journal of Molecular Catalysis A</i> , 2003, 206, 363-370.	4.8	32

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19	Steam reforming of methane in equilibrium membrane reactors for integration in power cycles. <i>Catalysis Today</i> , 2006, 118, 214-222.	4.4	32
20	Spectroscopic Enlightening of the Local Structure Of VO _x Active Sites in Catalysts for the Odh of Propane. <i>Journal of Physical Chemistry C</i> , 2012, 116, 22386-22398.	3.1	30
21	Vapour phase oxidation of toluene in V/Al ₂ O ₃ –TiO ₂ catalytic reactors. <i>Catalysis Today</i> , 2005, 99, 171-177.	4.4	29
22	Catalytic membrane reactors for the oxidehydrogenation of propane: experimental and modelling study. <i>Journal of Membrane Science</i> , 2002, 197, 75-88.	8.2	28
23	Electron microscopy characterization of airborne micro- and nanoparticulate matter. <i>Journal of Electron Microscopy</i> , 2011, 60, 117-131.	0.9	28
24	Application of membrane processes for the filtration of extra virgin olive oil. <i>Journal of Food Engineering</i> , 2004, 65, 303-309.	5.2	27
25	Characterization and performance of different types of hollow fibre membranes in a laboratory-scale MBR for the treatment of industrial wastewater. <i>Desalination</i> , 2008, 231, 133-140.	8.2	26
26	Silanization of tubular ceramic membranes for application in membrane distillation. <i>Journal of Membrane Science</i> , 2020, 601, 117911.	8.2	26
27	Separation of carbon dioxide from flue gases using membrane contactors. <i>Desalination</i> , 2006, 200, 609-611.	8.2	25
28	Sol-gel synthesis of thin alumina layers on porous stainless steel supports for high temperature palladium membranes. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 4717-4724.	7.1	23
29	Treatment of Olive Mill Wastewater through Integrated Pressure-Driven Membrane Processes. <i>Membranes</i> , 2020, 10, 334.	3.0	23
30	Membrane technologies for water treatment and agroindustrial sectors. <i>Comptes Rendus Chimie</i> , 2009, 12, 882-888.	0.5	22
31	Symbiotic, low-temperature, and scalable synthesis of bi-magnetic complex oxide nanocomposites. <i>Nanoscale Advances</i> , 2020, 2, 851-859.	4.6	22
32	Wetting of Polypropylene Membranes by Aqueous Solutions in CO ₂ Absorbing Devices. <i>Separation Science and Technology</i> , 2015, 50, 1860-1869.	2.5	18
33	Microporous layers based on poly(vinylidene fluoride) and sulfonated poly(vinylidene fluoride). <i>International Journal of Hydrogen Energy</i> , 2015, 40, 14690-14698.	7.1	18
34	Effect of Absorbent Type and Concentration on CO ₂ Capture from a Gas Stream into a Liquid Phase. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 13128-13136.	3.7	17
35	ChAMBR: a new atmospheric simulation chamber for aerosol modelling and bio-aerosol research. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 5885-5900.	3.1	17
36	Catalytic ceramic membrane in a three-phase reactor for the competitive hydrogenation–isomerisation of methylenecyclohexane. <i>Separation and Purification Technology</i> , 2004, 34, 239-246.	7.9	16

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37	Hydrocarbon removal from industrial wastewater by hollow-fibre membrane bioreactors. <i>Desalination</i> , 2007, 204, 24-32.	8.2	16
38	Thermal barrier coatings based on alumina microparticles. <i>Progress in Organic Coatings</i> , 2015, 78, 124-132.	3.9	16
39	Synthesis and characterization of Pd membranes on alumina-modified porous stainless steel supports. <i>Desalination</i> , 2009, 245, 508-515.	8.2	15
40	Rate of CO ₂ transfer to loaded MEA solutions using a membrane contactor device. <i>International Journal of Greenhouse Gas Control</i> , 2016, 52, 378-386.	4.6	14
41	Valorization and Potential Antimicrobial Use of Olive Mill Wastewater (OMW) from Italian Olive Oil Production. <i>Antioxidants</i> , 2022, 11, 903.	5.1	14
42	Porosimetric characterization of polysulfone ultrafiltration membranes by image analysis and liquid displacement technique. <i>Desalination</i> , 2015, 357, 84-92.	8.2	12
43	Exploring CO ₂ capture from pressurized industrial gaseous effluents in membrane contactor-based pilot plant. <i>International Journal of Greenhouse Gas Control</i> , 2017, 67, 60-70.	4.6	12
44	Effect of support on PVDF membranes for distillation process. <i>Journal of Membrane Science</i> , 2021, 635, 119528.	8.2	12
45	Dense Membranes for Oxygen and Hydrogen Separation (DEMOYS): Project Overview and First Results. <i>Energy Procedia</i> , 2013, 37, 1030-1038.	1.8	11
46	Carbon Black/Polyvinylidene Fluoride Nanocomposite Membranes for Direct Solar Distillation. <i>Energies</i> , 2022, 15, 740.	3.1	11
47	Inorganic Membrane Reactors for the Gas Phase Partial Oxidation of Toluene. <i>Chemical Engineering Research and Design</i> , 2004, 82, 229-235.	5.6	10
48	Novel polytetrafluoroethylene tubular membranes for membrane distillation. <i>Desalination and Water Treatment</i> , 2015, 53, 1559-1564.	1.0	9
49	A Single Step Preparation of Photothermally Active Polyvinylidene Fluoride Membranes Using Triethyl Phosphate as a Green Solvent for Distillation Applications. <i>Membranes</i> , 2021, 11, 896.	3.0	9
50	Effect of Different Pretreatments on Sludge Solubilization and Estimation of Bioenergy Potential. <i>Processes</i> , 2021, 9, 1382.	2.8	8
51	The Maximal Pore Size of Hydrophobic Microporous Membranes Does Not Fully Characterize the Resistance to Plasma Breakthrough of Membrane Devices for Extracorporeal Blood Oxygenation. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 461.	4.1	8
52	Preparation of Silica Membranes by Sol-Gel Method. , 2017, , 3-23.		7
53	Relationship between biofouling and recovery ratio:the theoretical approach and one experimental case. <i>Desalination</i> , 2007, 204, 175-180.	8.2	6
54	Synthesis of mesoporous alumina-titania membranes by the sol-gel method. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2010, 5, 242-248.	1.5	6

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55	Numerical simulation of CO2 diffusion and reaction into aqueous solutions of different absorbents. Korean Journal of Chemical Engineering, 2015, 32, 239-247.	2.7	5
56	Dehydration of Basil Leaves and Impact of Processing Composition. , 2015, , 645-653.		5
57	Water purification from pesticides by spiral wound nanofiltration membrane. Membrane Water Treatment, 2011, 2, 51-61.	0.5	5
58	Influence of carbon-based fillers on photoactive mixed matrix membranes formation. Journal of Membrane Science, 2022, 658, 120752.	8.2	5
59	Synthesis and Characterization of Polyurethanic Proton Exchange Membranes. Journal of Fuel Cell Science and Technology, 2011, 8, .	0.8	4
60	Towards Upscaling of La5.5WO11.25âˆ™ Manufacture for Plasma Spraying-Thin Film Coated Hydrogen Permeable Membranes. Membranes, 2020, 10, 192.	3.0	4
61	Wastewater treatment by membrane distillation. , 2020, , 3-34.		4
62	Laboratory Scale Evaluation of Fertiliser Factory Wastewater Treatment through Membrane Distillation and Reverse Osmosis. Membranes, 2021, 11, 610.	3.0	4
63	Efficacy of High-Ozonide Oil in Prevention of Cancer Relapses Mechanisms and Clinical Evidence. Cancers, 2022, 14, 1174.	3.7	4
64	Zeolite membrane reactors. , 2013, , 245-270.		3
65	Comparison Between Reverse Osmosis and Membrane Distillation for Bilge Water Treatment. Procedia Engineering, 2012, 44, 1700-1702.	1.2	2
66	Hydrocarbons catalytic combustion in membrane reactors. Studies in Surface Science and Catalysis, 1998, 119, 435-440.	1.5	1
67	Preparation and characterization of palladium alloy membranes for catalytic membrane reactors. Desalination, 2006, 200, 87-88.	8.2	1
68	Characterization of Defectiveness of Oxygen Transport Membranes Deposited by Low Pressure Plasma Spraying â€ˆthin Film Processes. Procedia Engineering, 2012, 44, 1243-1245.	1.2	1
69	Multi-phase catalytic membrane reactors. , 2013, , 152-187.		1
70	Kinetics of Adiponitrile Hydrogenation Over Rhodium-Alumina Catalysts. International Journal of Chemical Reactor Engineering, 2005, 3, .	1.1	0
71	Multiphase Membrane Reactors. , 2010, , 81-108.		0
72	Novel PVDF Membranes for Desalination by Membrane Distillation. Procedia Engineering, 2012, 44, 1213-1215.	1.2	0

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73	[P1.033] Preparation and Characterization of Hydrophobic Composite Inorganic Membranes for Gas and Vapour. <i>Procedia Engineering</i> , 2012, 44, 748-750.	1.2	0
74	A pilot system for the characterization of hydrophobic membrane contactor modules to be used in air handling processes. , 2017, , .		0
75	Analysis of the behavior of almond shells biomass in the biosorption of lead (II) and nickel (II) cations in aqueous solution. , 0, 148, 238-247.		0