# Antonio Comite

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 75 papers | 1,897 citations | 236925 25 h-index | 276875 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-ZrO2 composite membranes. Desalination, 2002, 146, 35-40. | 8.2 | 279 |
| 2 | Polymer Distributed Bragg Reflectors for Vapor Sensing. ACS Photonics, 2015, 2, 537-543. | 6.6 | 100 |
| 3 | Novel hydrophobic PVDF membranes prepared by nonsolvent induced phase separation for membrane distillation. Journal of Membrane Science, 2020, 596, 117575. | 8.2 | 88 |
| 4 | Steam Reforming of Methane in a Membrane Reactor:Â An Industrial Case Study. Industrial & Engineering Chemistry Research, 2006, 45, 2994-3000. | 3.7 | 79 |
| 5 | NIR-reflecting properties of new paints for energy-efficient buildings. Solar Energy, 2015, 116, 108-116. | 6.1 | 77 |
| 6 | CO2 removal from a gas stream by membrane contactor. Separation and Purification Technology, 2008, 59, 85-90. | 7.9 | 71 |
| 7 | Novel porous poly (vinylidene fluoride) membranes for membrane distillation. Desalination, 2005, 183, 375-382. | 8.2 | 67 |
| 8 | Nafionâ€“Zirconium Phosphate Nanocomposite Membranes with High Filler Loadings: Conductivity and Mechanical Properties. Fuel Cells, 2008, 8, 217-224. | 2.4 | 65 |
| 9 | Evaluation of the water gas shift reaction in a palladium membrane reactor. Catalysis Today, 2010, 156, 165-172. | 4.4 | 60 |
| 10 | Supported vanadium oxide-based catalysts for the oxidehydrogenation of propane under cyclic conditions. Catalysis Today, 2004, 91-92, 99-104. | 4.4 | 42 |
| 11 | Preparation and characterisation of Rh/Al2O3 catalysts and their application in the adiponitrile partial hydrogenation and styrene hydroformylation. Applied Catalysis A: General, 2005, 292, 105-112. | 4.3 | 42 |
| 12 | Oxidative dehydrogenation of propane using V2O5/TiO2/SiO2 catalysts prepared by grafting titanium and vanadium alkoxides on silica. Journal of Molecular Catalysis A, 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. Journal of Power Sources, 2008, 183, 62-68. | 7.8 | 37 |
| 14 | Polymeric and ceramic membranes in three-phase catalytic membrane reactors for the hydrogenation of methylenecyclohexane. Desalination, 2002, 144, 411-416. | 8.2 | 36 |
| 15 | Kinetic investigations on the oxidehydrogenation of propane over vanadium supported on Î³-Al2O3. Chemical Engineering Journal, 2003, 94, 11-18. | 12.7 | 36 |
| 16 | Critical flux in submerged membrane bioreactors for municipal wastewater treatment. Desalination, 2009, 245, 748-753. | 8.2 | 36 |
| 17 | Novel porous membranes from chemically modified poly(vinylidene fluoride). Journal of Membrane Science, 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. Journal of Molecular Catalysis A, 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. Catalysis Today, 2006, 118, 214-222. | 4.4 | 32 |
| 20 | Spectroscopic Enlightening of the Local Structure Of VO<sub>X</sub> Active Sites in Catalysts for the Odh of Propane. Journal of Physical Chemistry C, 2012, 116, 22386-22398. | 3.1 | 30 |
| 21 | Vapour phase oxidation of toluene in V/Al2O3â€“TiO2 catalytic reactors. Catalysis Today, 2005, 99, 171-177. | 4.4 | 29 |
| 22 | Catalytic membrane reactors for the oxidehydrogenation of propane: experimental and modelling study. Journal of Membrane Science, 2002, 197, 75-88. | 8.2 | 28 |
| 23 | Electron microscopy characterization of airborne micro- and nanoparticulate matter. Journal of Electron Microscopy, 2011, 60, 117-131. | 0.9 | 28 |
| 24 | Application of membrane processes for the filtration of extra virgin olive oil. Journal of Food Engineering, 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. Desalination, 2008, 231, 133-140. | 8.2 | 26 |
| 26 | Silanization of tubular ceramic membranes for application in membrane distillation. Journal of Membrane Science, 2020, 601, 117911. | 8.2 | 26 |
| 27 | Separation of carbon dioxide from flue gases using membrane contactors. Desalination, 2006, 200, 609-611. | 8.2 | 25 |
| 28 | Solâ€“gel synthesis of thin alumina layers on porous stainless steel supports for high temperature palladium membranes. International Journal of Hydrogen Energy, 2014, 39, 4717-4724. | 7.1 | 23 |
| 29 | Treatment of Olive Mill Wastewater through Integrated Pressure-Driven Membrane Processes. Membranes, 2020, 10, 334. | 3.0 | 23 |
| 30 | Membrane technologies for water treatment and agroindustrial sectors. Comptes Rendus Chimie, 2009, 12, 882-888. | 0.5 | 22 |
| 31 | Symbiotic, low-temperature, and scalable synthesis of bi-magnetic complex oxide nanocomposites. Nanoscale Advances, 2020, 2, 851-859. | 4.6 | 22 |
| 32 | Wetting of Polypropylene Membranes by Aqueous Solutions in CO<sub>2</sub>Absorbing Devices. Separation Science and Technology, 2015, 50, 1860-1869. | 2.5 | 18 |
| 33 | Microporous layers based on poly(vinylidene fluoride) and sulfonated poly(vinylidene fluoride). International Journal of Hydrogen Energy, 2015, 40, 14690-14698. | 7.1 | 18 |
| 34 | Effect of Absorbent Type and Concentration on CO<sub>2</sub> Capture from a Gas Stream into a Liquid Phase. Industrial & Engineering Chemistry Research, 2013, 52, 13128-13136. | 3.7 | 17 |
| 35 | ChAMBRe: a new atmospheric simulation chamber for aerosol modelling and bio-aerosol research. Atmospheric Measurement Techniques, 2018, 11, 5885-5900. | 3.1 | 17 |
| 36 | Catalytic ceramic membrane in a three-phase reactor for the competitive hydrogenationâ€“isomerisation of methylenecyclohexane. Separation and Purification Technology, 2004, 34, 239-246. | 7.9 | 16 |

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| 37 | Hydrocarbon removal from industrial wastewater by hollow-fibre membrane bioreactors. Desalination, 2007, 204, 24-32. | 8.2 | 16 |
| 38 | Thermal barrier coatings based on alumina microparticles. Progress in Organic Coatings, 2015, 78, 124-132. | 3.9 | 16 |
| 39 | Synthesis and characterization of Pd membranes on alumina-modified porous stainless steel supports. Desalination, 2009, 245, 508-515. | 8.2 | 15 |
| 40 | Rate of CO 2 transfer to loaded MEA solutions using a membrane contactor device. International Journal of Greenhouse Gas Control, 2016, 52, 378-386. | 4.6 | 14 |
| 41 | Valorization and Potential Antimicrobial Use of Olive Mill Wastewater (OMW) from Italian Olive Oil Production. Antioxidants, 2022, 11, 903. | 5.1 | 14 |
| 42 | Porosimetric characterization of polysulfone ultrafiltration membranes by image analysis and liquidâ€“liquid displacement technique. Desalination, 2015, 357, 84-92. | 8.2 | 12 |
| 43 | Exploring CO2 capture from pressurized industrial gaseous effluents in membrane contactor-based pilot plant. International Journal of Greenhouse Gas Control, 2017, 67, 60-70. | 4.6 | 12 |
| 44 | Effect of support on PVDF membranes for distillation process. Journal of Membrane Science, 2021, 635, 119528. | 8.2 | 12 |
| 45 | Dense Membranes for Oxygen and Hydrogen Separation (DEMOYS): Project Overview and First Results. Energy Procedia, 2013, 37, 1030-1038. | 1.8 | 11 |
| 46 | Carbon Black/Polyvinylidene Fluoride Nanocomposite Membranes for Direct Solar Distillation. Energies, 2022, 15, 740. | 3.1 | 11 |
| 47 | Inorganic Membrane Reactors for the Gas Phase Partial Oxidation of Toluene. Chemical Engineering Research and Design, 2004, 82, 229-235. | 5.6 | 10 |
| 48 | Novel polytetrafluoroethylene tubular membranes for membrane distillation. Desalination and Water Treatment, 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. Membranes, 2021, 11, 896. | 3.0 | 9 |
| 50 | Effect of Different Pretreatments on Sludge Solubilization and Estimation of Bioenergy Potential. Processes, 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. Frontiers in Bioengineering and Biotechnology, 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. Desalination, 2007, 204, 175-180. | 8.2 | 6 |
| 54 | Synthesis of mesoporous aluminaâ€“titania membranes by the solâ€gel method. Asia-Pacific Journal of Chemical Engineering, 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 La5.5WO11.25â^Î´ 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€“thin 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. Procedia Engineering, 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 |