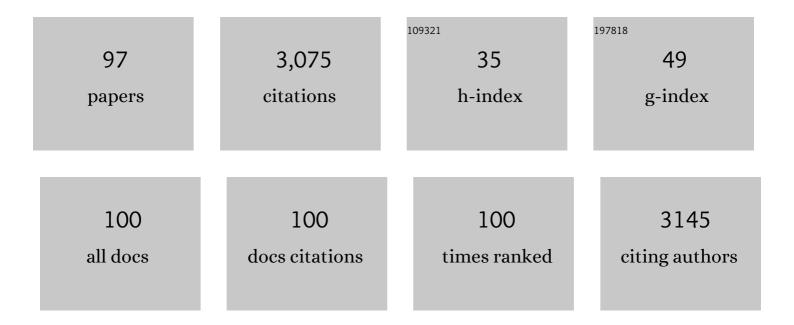
Reyes Mallada

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | From bench scale to pilot plant: A 150x scaled-up configuration of a microwave-driven structured reactor for methane dehydroaromatization. Catalysis Today, 2022, 383, 21-30. | 4.4 | 19 |
| 2 | Ultra-Small Silver Nanoparticles Immobilized in Mesoporous SBA-15. Microwave-Assisted Synthesis and Catalytic Activity in the 4-Nitrophenol Reduction. Catalysis Today, 2021, 362, 81-89. | 4.4 | 23 |
| 3 | Preparation of Cu cluster catalysts by simultaneous cooling–microwave heating: application in radical cascade annulation. Nanoscale Advances, 2021, 3, 1087-1095. | 4.6 | 4 |
| 4 | Block Copolymer-Based Magnetic Mixed Matrix Membranes—Effect of Magnetic Field on Protein Permeation and Membrane Fouling. Membranes, 2021, 11, 105. | 3.0 | 14 |
| 5 | On the Improvement of Alveolarâ€Like Microfluidic Devices for Efficient Blood Oxygenation. Advanced Materials Technologies, 2021, 6, 2001027. | 5.8 | 5 |
| 6 | Plasmonic MOF Thin Films with Raman Internal Standard for Fast and Ultrasensitive SERS Detection of Chemical Warfare Agents in Ambient Air. ACS Sensors, 2021, 6, 2241-2251. | 7.8 | 63 |
| 7 | Protein Crystallization in a Microfluidic Contactor with Nafion®117 Membranes. Membranes, 2021, 11, 549. | 3.0 | 3 |
| 8 | Gas phase detection of chemical warfare agents CWAs with portable Raman. Journal of Hazardous Materials, 2020, 384, 121279. | 12.4 | 33 |
| 9 | Laser-driven direct synthesis of carbon nanodots and application as sensitizers for visible-light photocatalysis. Carbon, 2020, 156, 453-462. | 10.3 | 25 |
| 10 | Supercritical solvothermal synthesis under reducing conditions to increase stability and durability of Mo/ZSM-5 catalysts in methane dehydroaromatization. Applied Catalysis B: Environmental, 2020, 263, 118360. | 20.2 | 47 |
| 11 | Towards the reproducible fabrication of homogeneous SERS substrates by Langmuir-Schaefer technique: A low cost and scalable approach for practical SERS based sensing applications. Applied Surface Science, 2020, 506, 144663. | 6.1 | 12 |
| 12 | In Situ Synthesis of SERS-Active Au@POM Nanostructures in a Microfluidic Device for Real-Time Detection of Water Pollutants. ACS Applied Materials & Interfaces, 2020, 12, 36458-36467. | 8.0 | 41 |
| 13 | Enhanced Protein Crystallization on Nafion Membranes Modified by Low-Cost Surface Patterning Techniques. Crystal Growth and Design, 2020, 20, 2174-2186. | 3.0 | 9 |
| 14 | Continuous Microwave-Assisted Synthesis of Silver Nanoclusters Confined in Mesoporous SBA-15: Application in Alkyne Cyclizations. Chemistry of Materials, 2020, 32, 2874-2883. | 6.7 | 22 |
| 15 | Microwave-activated structured reactors to maximize propylene selectivity in the oxidative dehydrogenation of propane. Chemical Engineering Journal, 2020, 393, 124746. | 12.7 | 42 |
| 16 | Non-oxidative methane conversion in microwave-assisted structured reactors. Chemical Engineering Journal, 2019, 377, 119764. | 12.7 | 85 |
| 17 | Overcoming Stability Problems in Microwave-Assisted Heterogeneous Catalytic Processes Affected by Catalyst Coking. Catalysts, 2019, 9, 867. | 3.5 | 31 |
| 18 | 110th Anniversary: Nucleation of Ag Nanoparticles in Helical Microfluidic Reactor. Comparison between Microwave and Conventional Heating. Industrial & Engineering Chemistry Research, 2019, 58, 12702-12711. | 3.7 | 24 |

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| 19 | Escaping undesired gas-phase chemistry: Microwave-driven selectivity enhancement in heterogeneous catalytic reactors. Science Advances, 2019, 5, eaau9000. | 10.3 | 66 |
| 20 | Numerical analysis of microwave heating cavity: Combining electromagnetic energy, heat transfer and fluid dynamics for a NaY zeolite fixed-bed. Applied Thermal Engineering, 2019, 155, 226-238. | 6.0 | 58 |
| 21 | Experimental Evaluation of the Thermal Polarization in Direct Contact Membrane Distillation Using Electrospun Nanofiber Membranes Doped With Molecular Probes. Molecules, 2019, 24, 638. | 3.8 | 33 |
| 22 | Polyoxometalates as alternative Mo precursors for methane dehydroaromatization on Mo/ZSM-5 and Mo/MCM-22 catalysts. Catalysis Science and Technology, 2019, 9, 5927-5942. | 4.1 | 36 |
| 23 | High-radiance LED-driven fluidized bed photoreactor for the complete oxidation of n-hexane in air. Chemical Engineering Journal, 2019, 358, 1363-1370. | 12.7 | 24 |
| 24 | Microwave-Assisted Catalytic Combustion for the Efficient Continuous Cleaning of VOC-Containing Air Streams. Environmental Science & Technology, 2018, 52, 5892-5901. | 10.0 | 47 |
| 25 | Highly sensitive SERS quantification of organophosphorous chemical warfare agents: A major step towards the real time sensing in the gas phase. Sensors and Actuators B: Chemical, 2018, 267, 457-466. | 7.8 | 43 |
| 26 | Block copolymer based novel magnetic mixed matrix membranes-magnetic modulation of water permeation by irreversible structural changes. Journal of Membrane Science, 2018, 551, 273-282. | 8.2 | 9 |
| 27 | Synthesis, characterization, and application of ruthenium-doped SrTiO 3 perovskite catalysts for microwave-assisted methane dry reforming. Chemical Engineering and Processing: Process Intensification, 2018, 127, 178-190. | 3.6 | 66 |
| 28 | Microfluidic devices as gas – Ionic liquid membrane contactors for CO2 removal from anaesthesia gases. Journal of Membrane Science, 2018, 545, 107-115. | 8.2 | 20 |
| 29 | Exploring the Gas-Permeation Properties of Proton-Conducting Membranes Based on Protic Imidazolium Ionic Liquids: Application in Natural Gas Processing. Membranes, 2018, 8, 75. | 3.0 | 6 |
| 30 | Laser-Assisted Production of Carbon-Encapsulated Pt-Co Alloy Nanoparticles for Preferential Oxidation of Carbon Monoxide. Frontiers in Chemistry, 2018, 6, 487. | 3.6 | 19 |
| 31 | Three-Dimensional Fractal Geometry for Gas Permeation in Microchannels. Micromachines, 2018, 9, 45. | 2.9 | 6 |
| 32 | 3D Fractals as SERS Active Platforms: Preparation and Evaluation for Gas Phase Detection of G-Nerve Agents. Micromachines, 2018, 9, 60. | 2.9 | 17 |
| 33 | In situ temperature measurements in microwave-heated gas-solid catalytic systems. Detection of hot spots and solid-fluid temperature gradients in the ethylene epoxidation reaction. Chemical Engineering Journal, 2017, 316, 50-60. | 12.7 | 50 |
| 34 | A non-invasive optical method for mapping temperature polarization in direct contact membrane distillation. Journal of Membrane Science, 2017, 536, 156-166. | 8.2 | 42 |
| 35 | Hierarchical Porous Polybenzimidazole Microsieves: An Efficient Architecture for Anhydrous Proton Transport via Polyionic Liquids. ACS Applied Materials & Interfaces, 2017, 9, 14844-14857. | 8.0 | 24 |
| 36 | Nano-structured magneto-responsive membranes from block copolymers and iron oxide nanoparticles. Polymer Chemistry, 2017, 8, 605-614. | 3.9 | 22 |

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| 37 | Easy Preparation of Tanninâ€Based Ag Catalysts for Ethylene Epoxidation. ChemistrySelect, 2017, 2, 8509-8516. | 1.5 | 3 |
| 38 | Study of different titanosilicate (TS-1 and ETS-10) as fillers for Mixed Matrix Membranes for CO2/CH4 gas separation applications. Journal of Membrane Science, 2017, 523, 24-35. | 8.2 | 53 |
| 39 | Development of fluorescent thermoresponsive nanoparticles for temperature monitoring on membrane surfaces. Journal of Colloid and Interface Science, 2017, 486, 144-152. | 9.4 | 22 |
| 40 | Innentitelbild: A Nanoarchitecture Based on Silver and Copper Oxide with an Exceptional Response in the Chlorine-Promoted Epoxidation of Ethylene (Angew. Chem. 37/2016). Angewandte Chemie, 2016, 128, 11082-11082. | 2.0 | 0 |
| 41 | Constructing Straight Polyionic Liquid Microchannels for Fast Anhydrous Proton Transport. ACS Applied Materials & Interfaces, 2016, 8, 35377-35389. | 8.0 | 29 |
| 42 | A Nanoarchitecture Based on Silver and Copper Oxide with an Exceptional Response in the Chlorineâ€Promoted Epoxidation of Ethylene. Angewandte Chemie, 2016, 128, 11324-11327. | 2.0 | 4 |
| 43 | Pt-CoOx nanoparticles supported on ETS-10 for preferential oxidation of CO reaction. Applied Catalysis A: General, 2016, 528, 86-92. | 4.3 | 17 |
| 44 | Nanostructured Mixed Matrix Membranes from Supramolecular Assembly of Block Copolymer Nanoparticles and Iron Oxide Nanoparticles. Macromolecules, 2016, 49, 7908-7916. | 4.8 | 30 |
| 45 | A Nanoarchitecture Based on Silver and Copper Oxide with an Exceptional Response in the Chlorineâ€Promoted Epoxidation of Ethylene. Angewandte Chemie - International Edition, 2016, 55, 11158-11161. | 13.8 | 29 |
| 46 | 3D-fractal engineering based on oxide-only corner lithography. , 2016, , . | | 3 |
| 47 | Ethylene epoxidation in microwave heated structured reactors. Catalysis Today, 2016, 273, 99-105. | 4.4 | 28 |
| 48 | Porous membranes from acid decorated block copolymer nano-objects via RAFT alcoholic dispersion polymerization. Polymer Chemistry, 2016, 7, 1899-1906. | 3.9 | 38 |
| 49 | Nano-heaters: New insights on the outstanding deposition of dielectric energy on perovskite nanoparticles. Nano Energy, 2016, 20, 20-28. | 16.0 | 21 |
| 50 | Amineâ€functionalized mesoporous silica: A material capable of CO ₂ adsorption and fast regeneration by microwave heating. AICHE Journal, 2016, 62, 547-555. | 3.6 | 62 |
| 51 | PVDF-MFI mixed matrix membranes as VOCs adsorbers. Microporous and Mesoporous Materials, 2015, 207, 126-133. | 4.4 | 53 |
| 52 | In-situ preparation of a highly accessible Pt/CNF catalytic layer on metallic microchannel reactors. Application to the SELOX reaction. Applied Catalysis A: General, 2015, 505, 193-199. | 4.3 | 7 |
| 53 | Removal of VOCs at trace concentration levels from humid air by Microwave Swing Adsorption, kinetics and proper sorbent selection. Separation and Purification Technology, 2015, 151, 193-200. | 7.9 | 46 |
| 54 | Facile production of stable silicon nanoparticles: laser chemistry coupled to in situ stabilization via room temperature hydrosilylation. Nanoscale, 2015, 7, 8566-8573. | 5.6 | 10 |

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| 55 | Unraveling the growth of vertically aligned multi-walled carbon nanotubes by chemical vapor deposition. Materials Research Express, 2014, 1, 045604. | 1.6 | 13 |
| 56 | Mordenite Membrane. , 2014, , 1-3. | | 0 |
| 57 | Heating of Zeolites under Microwave Irradiation: A Density Functional Theory Approach to the Ion Movements Responsible of the Dielectric Loss in Na, K, and Ca A-Zeolites. Journal of Physical Chemistry C, 2013, 117, 15659-15666. | 3.1 | 16 |
| 58 | Continuous production of iron-based nanocrystals by laser pyrolysis. Effect of operating variables on size, composition and magnetic response. Nanotechnology, 2013, 24, 325603. | 2.6 | 16 |
| 59 | Fast microwave synthesis of Pt-MFI zeolite coatings on silicon micromonoliths: application to VOC catalytic combustion. Green Processing and Synthesis, 2012, 1, . | 3.4 | 0 |
| 60 | Use of a polyol liquid collection medium to obtain ultrasmall magnetic nanoparticles by laser pyrolysis. Nanotechnology, 2012, 23, 425605. | 2.6 | 29 |
| 61 | Monoamine-grafted MCM-48: An efficient material for CO2 removal at low partial pressures. Chemical Engineering Journal, 2011, 175, 291-297. | 12.7 | 40 |
| 62 | Zeolite films and membranes. Emerging applications. Microporous and Mesoporous Materials, 2011, 144, 19-27. | 4.4 | 115 |
| 63 | Microwave-assisted hydrothermal rapid synthesis of capillary MFI-type zeolite–ceramic membranes for pervaporation application. Journal of Membrane Science, 2010, 355, 28-35. | 8.2 | 56 |
| 64 | Shift of Multiple Incompatible Equilibriums by a Combination of Heterogeneous Catalysis and Membranes. Chemistry - A European Journal, 2010, 16, 3296-3299. | 3.3 | 17 |
| 65 | Synthesis of capillary titanosilicalite TS-1 ceramic membranes by MW-assisted hydrothermal heating for pervaporation application. Separation and Purification Technology, 2010, 75, 249-256. | 7.9 | 15 |
| 66 | Combustion of Volatile Organic Compounds at Trace Concentration Levels in Zeolite-Coated Microreactors. Industrial & Engineering Chemistry Research, 2010, 49, 6941-6947. | 3.7 | 24 |
| 67 | Preparation of stable MCM-48 tubular membranes. Journal of Membrane Science, 2009, 326, 137-144. | 8.2 | 19 |
| 68 | Microreactors with Pt/zeolite catalytic films for the selective oxidation of CO in simulated reformer streams. Catalysis Today, 2009, 147, S10-S16. | 4.4 | 21 |
| 69 | Selective oxidation of CO in the presence of H2, CO2 and H2O, on different zeolite-supported Pt catalysts. Applied Catalysis A: General, 2009, 366, 242-251. | 4.3 | 41 |
| 70 | Glycerol upgrading by ketalization in a zeolite membrane reactor. Asia-Pacific Journal of Chemical Engineering, 2009, 4, 279-284. | 1.5 | 47 |
| 71 | Preparation and characterization of Co mordenite coatings onto cordierite monoliths as structured catalysts. Catalysis Today, 2008, 133-135, 42-48. | 4.4 | 6 |
| 72 | Preparation of zeolite films as catalytic coatings on microreactor channels. Microporous and Mesoporous Materials, 2008, 115, 147-155. | 4.4 | 41 |

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| 73 | Zeolite Membranes. , 2008, , 269-323. | | 2 |
| 74 | Preparation of Pt/ZSM-5 films on stainless steel microreactors. Catalysis Today, 2007, 125, 2-10. | 4.4 | 52 |
| 75 | Study on the reproducibility of mordenite tubular membranes used in the dehydration of ethanol. Journal of Membrane Science, 2007, 299, 166-173. | 8.2 | 32 |
| 76 | Selective oxidations in micro-structured catalytic reactors—For gas-phase reactions and specifically for fuel processing for fuel cells. Catalysis Today, 2007, 120, 2-20. | 4.4 | 53 |
| 77 | Continuous zeolite membrane reactor for esterification of ethanol and acetic acid. Chemical Engineering Journal, 2007, 131, 35-39. | 12.7 | 122 |
| 78 | Evaluation of optical and dielectrical properties of the zeolites. Desalination, 2006, 200, 601-603. | 8.2 | 3 |
| 79 | The use of post-synthetic treatments to improve the pervaporation performance of mordenite membranes. Journal of Membrane Science, 2006, 270, 32-41. | 8.2 | 35 |
| 80 | Preparation and characterization of two-layered mordenite-ZSM-5 bi-functional membranes. Microporous and Mesoporous Materials, 2006, 93, 318-324. | 4.4 | 26 |
| 81 | Synthesis and characterization of MCM-48 tubular membranes. Journal of Membrane Science, 2006, 280, 867-875. | 8.2 | 28 |
| 82 | Preparation of inner-side tubular zeolite NaA membranes in a semi-continuous synthesis system. Journal of Membrane Science, 2006, 278, 401-409. | 8.2 | 53 |
| 83 | Preparation of zeolite NaA membranes on the inner side of tubular supports by means of a controlled seeding technique. Catalysis Today, 2005, 104, 281-287. | 4.4 | 77 |
| 84 | Preparation of Silicalite Membranes on Stainless Steel Grid Supports. Industrial & Engineering Chemistry Research, 2005, 44, 7627-7632. | 3.7 | 15 |
| 85 | Selective separation of homogeneous catalysts using silicalite membranes. Inorganica Chimica Acta, 2004, 357, 4577-4581. | 2.4 | 7 |
| 86 | Preparation and reactive applications of nanoporous silicon carbide membranes. Chemical Engineering Science, 2004, 59, 4957-4965. | 3.8 | 80 |
| 87 | Preparation of highly accessible mordenite coatings on ceramic monoliths at loadings exceeding 50% by weight. Chemical Communications, 2004, , 528-529. | 4.1 | 32 |
| 88 | Preparation, characterization and pervaporation performance of mordenite membranes. Journal of Membrane Science, 2003, 216, 135-147. | 8.2 | 65 |
| 89 | Synthesis and characterization of ZSM-5 coatings onto cordierite honeycomb supports. Applied Catalysis A: General, 2003, 253, 257-269. | 4.3 | 62 |
| 90 | Experimental Study on the Oxidation of Butane to Maleic Anhydride in a Two-Zone Fluidized Bed Reactor. Industrial & Engineering Chemistry Research, 2002, 41, 5181-5186. | 3.7 | 26 |

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| 91 | On the favourable effect of CO2 addition in the oxidation of butane to maleic anhydride using membrane reactors. Applied Catalysis A: General, 2002, 231, 109-116. | 4.3 | 8 |
| 92 | Preparation of mordenite membranes for pervaporation of water-ethanol mixtures. Desalination, 2002, 148, 25-29. | 8.2 | 47 |
| 93 | Catalytic oxidation of butane to maleic anhydride enhanced yields in the presence of CO2 in the reactor feed. Applied Catalysis A: General, 2001, 210, 271-274. | 4.3 | 25 |
| 94 | Simulation of an inert membrane reactor for the synthesis of maleic anhydride. AICHE Journal, 2000, 46, 2489-2498. | 3.6 | 22 |
| 95 | Use of membrane reactors for the oxidation of butane to maleic anhydride under high butane concentrations. Catalysis Today, 2000, 56, 191-197. | 4.4 | 68 |
| 96 | Influence of the Reaction Atmosphere on the Characteristics and Performance of VPO Catalysts. Journal of Catalysis, 2000, 196, 1-7. | 6.2 | 23 |
| 97 | Synthesis of Maleic Anhydride in an Inert Membrane Reactor. Effect of Reactor Configuration. Industrial & Engineering Chemistry Research, 2000, 39, 620-625. | 3.7 | 36 |