

# Vicente MartÃ-nez-Soria

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

2,145  
citations

236925

25  
h-index

223800

46  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1941  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrocracking of Vacuum Gasoil on the Novel Mesoporous MCM-41 Aluminosilicate Catalyst. Journal of Catalysis, 1995, 153, 25-31.	6.2	373
2	Alkylation of Benzene with Short-Chain Olefins over MCM-22 Zeolite: Catalytic Behaviour and Kinetic Mechanism. Journal of Catalysis, 2000, 192, 163-173.	6.2	266
3	Hydrogenation of Aromatics in Diesel Fuels on Pt/MCM-41 Catalysts. Journal of Catalysis, 1997, 169, 480-489.	6.2	238
4	Catalytic Performance of the New Delaminated ITQ-2 Zeolite for Mild Hydrocracking and Aromatic Hydrogenation Processes. Journal of Catalysis, 2001, 200, 259-269.	6.2	86
5	Mild Hydrocracking of Vacuum Gasoil over NiMo-Beta Zeolite Catalysts: The Role of the Location of the NiMo Phases and the Crystallite Size of the Zeolite. Journal of Catalysis, 1998, 179, 537-547.	6.2	85
6	Performance evaluation of a biotrickling filter treating a mixture of oxygenated VOCs during intermittent loading. Chemosphere, 2008, 73, 1533-1539.	8.2	61
7	Comparative study of degassing membrane modules for the removal of methane from Expanded Granular Sludge Bed anaerobic reactor effluent. Separation and Purification Technology, 2016, 170, 22-29.	7.9	58
8	Biofiltration of ethylbenzene vapours: Influence of the packing material. Bioresource Technology, 2008, 99, 269-276.	9.6	55
9	Performance of a polypropylene membrane contactor for the recovery of dissolved methane from anaerobic effluents: Mass transfer evaluation, long-term operation and cleaning strategies. Journal of Membrane Science, 2018, 563, 926-937.	8.2	54
10	Demethanization of aqueous anaerobic effluents using a polydimethylsiloxane membrane module: Mass transfer, fouling and energy analysis. Separation and Purification Technology, 2017, 186, 10-19.	7.9	52
11	Comparison of simultaneous saccharification and fermentation and separate hydrolysis and fermentation processes for butanol production from rice straw. Fuel, 2020, 282, 118831.	6.4	49
12	Photodegradation of Toluene, <i>m</i> -Xylene, and <i>n</i> -Butyl Acetate and Their Mixtures over TiO <sub>2</sub> Catalyst on Glass Fibers. Industrial & Engineering Chemistry Research, 2012, 51, 5986-5994.	3.7	42
13	Biological nitrate removal from wastewater of a metal-finishing industry. Journal of Hazardous Materials, 2007, 148, 485-490.	12.4	37
14	Isovaleraldehyde degradation using UV photocatalytic and dielectric barrier discharge reactors, and their combinations. Journal of Photochemistry and Photobiology A: Chemistry, 2015, 299, 110-117.	3.9	37
15	Biotrickling filter modeling for styrene abatement. Part 1: Model development, calibration and validation on an industrial scale. Chemosphere, 2018, 191, 1066-1074.	8.2	37
16	Abatement of 3-methylbutanal and trimethylamine with combined plasma and photocatalysis in a continuous planar reactor. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 282, 1-8.	3.9	36
17	Performance of a Pilot-Scale Biotrickling Filter in Controlling the Volatile Organic Compound Emissions in a Furniture Manufacturing Facility. Journal of the Air and Waste Management Association, 2009, 59, 998-1006.	1.9	32
18	Evaluation of a pilot-scale biotrickling filter as a VOC control technology for the plastic coating sector. Biochemical Engineering Journal, 2011, 58-59, 154-161.	3.6	32

#	ARTICLE	IF	CITATIONS
19	Biofiltration of toluene in the absence and the presence of ethyl acetate under continuous and intermittent loading. <i>Journal of Chemical Technology and Biotechnology</i> , 2008, 83, 643-653.	3.2	31
20	Mathematical modeling of the biofiltration of ethyl acetate and toluene and their mixture. <i>Biochemical Engineering Journal</i> , 2009, 43, 169-177.	3.6	31
21	Removal of TEX vapours from air in a peat biofilter: influence of inlet concentration and inlet load. <i>Journal of Chemical Technology and Biotechnology</i> , 2006, 81, 322-328.	3.2	30
22	Performance and feasibility of biotrickling filtration in the control of styrene industrial air emissions. <i>International Biodeterioration and Biodegradation</i> , 2017, 119, 329-335.	3.9	30
23	Densities, refractive indices, and derived excess properties of tert-butyl alcohol, methyl tert-butyl ether and 2-methylpentane binary and ternary systems at 303.15 K. <i>Fluid Phase Equilibria</i> , 2000, 167, 99-111.	2.5	29
24	Long-term performance of peat biofilters treating ethyl acetate, toluene, and its mixture in air. <i>Biotechnology and Bioengineering</i> , 2007, 96, 651-660.	3.3	29
25	Densities, refractive indices, and derived excess properties of the binary systems tert-butyl alcohol+toluene, +methylcyclohexane, and +isooctane and toluene+methylcyclohexane, and the ternary system tert-butyl alcohol+toluene+methylcyclohexane at 298.15 K. <i>Fluid Phase Equilibria</i> , 1999, 166, 53-65.	2.5	28
26	UV photocatalytic oxidation of paint solvent compounds in air using an annular TiO <sub>2</sub> -supported reactor. <i>Journal of Chemical Technology and Biotechnology</i> , 2011, 86, 273-281.	3.2	26
27	Isobaric Vapor-Liquid Equilibria for the Binary Mixtures of Styrene with Ethylbenzene, o-Xylene, m-Xylene, and p-Xylene. <i>Journal of Chemical &amp; Engineering Data</i> , 2006, 51, 1051-1055.	1.9	23
28	Vapor-Liquid Equilibria for the Binary System tert-Butyl Alcohol + Toluene, + Isooctane, and + Methylcyclohexane at 101.3 kPa. <i>Journal of Chemical &amp; Engineering Data</i> , 1999, 44, 148-151.	1.9	21
29	Effect of pre-treatments based on UV photocatalysis and photo-oxidation on toluene biofiltration performance. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 65-72.	3.2	20
30	Comparison between laboratory and pilot biotrickling filtration of air emissions from painting and wood finishing. <i>Journal of Chemical Technology and Biotechnology</i> , 2010, 85, 364-370.	3.2	17
31	Full-scale biotrickling filtration of volatile organic compounds from air emission in wood-coating activities. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 732-738.	3.2	17
32	Densities, Refractive Indices, and Derived Excess Properties of the Binary Systems Toluene + Isooctane and Methylcyclohexane + Isooctane and the Ternary Systems tert-Butyl Alcohol + Toluene + Isooctane and tert-Butyl Alcohol + Methylcyclohexane + Isooctane at 298.15 K. <i>Journal of Chemical &amp; Engineering Data</i> , 2000, 45, 518-522.	1.9	16
33	Anaerobic degradation of glycol ether-ethanol mixtures using EGSB and hybrid reactors: Performance comparison and ether cleavage pathway. <i>Journal of Environmental Management</i> , 2018, 213, 159-167.	7.8	16
34	Effects of nitrogen source and empty bed residence time on the removal of styrene gaseous emissions by biotrickling filtration. <i>Bioprocess and Biosystems Engineering</i> , 2011, 34, 859-867.	3.4	15
35	Simultaneous application of vacuum and sweep gas in a polypropylene membrane contactor for the recovery of dissolved methane from water. <i>Journal of Membrane Science</i> , 2021, 617, 118560.	8.2	15
36	Biofiltration of ethyl acetate under continuous and intermittent loading. <i>Environmental Progress</i> , 2007, 26, 327-337.	0.7	14

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37	Evaluation of a combined activated carbon prefilter and biotrickling filter system treating variable ethanol and ethyl acetate gaseous emissions. <i>Engineering in Life Sciences</i> , 2009, 9, 317-323.	3.6	14
38	Vapor-Liquid Equilibria for the Binary Systems Isobutyl Alcohol + Toluene, + Isooctane, and + Methylcyclohexane at 101.3 kPa. <i>Journal of Chemical &amp; Engineering Data</i> , 1999, 44, 608-612.	1.9	13
39	Isobaric Vapor-Liquid Equilibria for the Binary System 3-Methylpentane + Ethanol and for the Ternary System 2-Methyl-2-propanol + Ethanol + 3-Methylpentane at 101.3 kPa. <i>Journal of Chemical &amp; Engineering Data</i> , 2000, 45, 882-886.	1.9	13
40	Influence of ground tire rubber on the transient loading response of a peat biofilter. <i>Journal of Environmental Management</i> , 2011, 92, 1978-1985.	7.8	10
41	Control of VOC emissions from a flexographic printing facility using an industrial biotrickling filter. <i>Water Science and Technology</i> , 2012, 65, 177-182.	2.5	9
42	Coupling Adsorption and Biological Technologies for Multicomponent and Fluctuating Volatile Organic Compounds Emissions Abatement: Laboratory-Scale Evaluation and Full-Scale Implementation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 1713-1722.	3.7	9
43	Influence of activated carbon on performance and microbial communities in the treatment of solvent pollutant mixtures in a continuous stirred tank reactor. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 1445-1455.	2.4	8
44	Recovery of dissolved methane through a flat sheet module with PDMS, PP, and PVDF membranes. <i>Separation and Purification Technology</i> , 2022, 282, 120057.	7.9	8
45	Evolution of Bacterial Community in a Full-scale Biotrickling Filter by Fluorescence in Situ Hybridization (FISH). <i>Procedia Engineering</i> , 2012, 42, 666-671.	1.2	6
46	Effect of substrate composition on the stability and microbial community of an anaerobic expanded granular sludge bed reactor treating printing solvent mixtures of ethanol and glycol ethers. <i>International Biodeterioration and Biodegradation</i> , 2019, 145, 104815.	3.9	6
47	Flat PVDF Membrane with Enhanced Hydrophobicity through Alkali Activation and Organofluorosilanisation for Dissolved Methane Recovery. <i>Membranes</i> , 2022, 12, 426.	3.0	5
48	Removal of acetone from air emissions by biotrickling filters: providing solutions from laboratory to full-scale. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2019, 54, 1-8.	1.7	3
49	Comparison between laboratory and pilot biotrickling filtration of air emissions from painting and wood finishing. , 2010, , 45-50.		1
50	Evaluation of the combo mode operation of a PP membrane module for methane degassing of anaerobic effluents. , 0, , .		0
51	Surface modification of membranes for methane degassing from water: preliminary study on hydrophobicity and performance. , 0, , .		0