

# Aurelio Vega

## List of Publications by Year in descending order

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55  
papers

1,827  
citations

257101

24  
h-index

264894

42  
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55  
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55  
docs citations

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times ranked

2255  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption of CO <sub>2</sub> on Hydrotalcite-Derived Mixed Oxides: Sorption Mechanisms and Consequences for Adsorption Irreversibility. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 3663-3671.	1.8	179
2	Adsorption of volatile organic compounds onto carbon nanotubes, carbon nanofibers, and high-surface-area graphites. <i>Journal of Colloid and Interface Science</i> , 2007, 305, 7-16.	5.0	148
3	Catalytic combustion of methane over red mud-based catalysts. <i>Applied Catalysis B: Environmental</i> , 2004, 47, 37-45.	10.8	95
4	Enhancement of the CO <sub>2</sub> Retention Capacity of Y Zeolites by Na and Cs Treatments: Effect of Adsorption Temperature and Water Treatment. <i>Industrial &amp; Engineering Chemistry Research</i> , 2008, 47, 412-418.	1.8	82
5	Adsorption characterisation of different volatile organic compounds over alumina, zeolites and activated carbon using inverse gas chromatography. <i>Journal of Chromatography A</i> , 2004, 1049, 139-146.	1.8	80
6	Effect of carbon nanofiber functionalization on the adsorption properties of volatile organic compounds. <i>Journal of Chromatography A</i> , 2008, 1188, 264-273.	1.8	76
7	Consequences of the iron-aluminium exchange on the performance of hydrotalcite-derived mixed oxides for ethanol condensation. <i>Applied Catalysis B: Environmental</i> , 2011, 102, 590-599.	10.8	75
8	Enhancement of the CO <sub>2</sub> retention capacity of X zeolites by Na- and Cs-treatments. <i>Chemosphere</i> , 2008, 70, 1375-1382.	4.2	65
9	Oxidation of methane over palladium catalysts: effect of the support. <i>Chemosphere</i> , 2005, 58, 9-17.	4.2	62
10	Modification of the adsorption properties of high surface area graphites by oxygen functional groups. <i>Carbon</i> , 2008, 46, 2096-2106.	5.4	58
11	Catalytic combustion of hexane over transition metal modified zeolites NaX and CaA. <i>Applied Catalysis B: Environmental</i> , 2005, 56, 313-322.	10.8	55
12	Oxidation of trichloroethene over metal oxide catalysts: Kinetic studies and correlation with adsorption properties. <i>Chemosphere</i> , 2007, 66, 1706-1715.	4.2	55
13	Solvent Selection for Cyclohexane-Benzene Separation by Extractive Distillation Using Non-Steady-State Gas Chromatography. <i>Industrial &amp; Engineering Chemistry Research</i> , 1997, 36, 803-807.	1.8	48
14	Adsorption properties of a Pd/Al <sub>2</sub> O <sub>3</sub> catalyst using inverse gas chromatography. <i>Microporous and Mesoporous Materials</i> , 2004, 70, 109-118.	2.2	47
15	Combustion of trichloroethylene and dichloromethane over protonic zeolites: Influence of adsorption properties on the catalytic performance. <i>Microporous and Mesoporous Materials</i> , 2006, 91, 161-169.	2.2	47
16	Sulphur poisoning of palladium catalysts used for methane combustion: Effect of the support. <i>Journal of Hazardous Materials</i> , 2008, 153, 742-750.	6.5	47
17	Performance of alumina-supported noble metal catalysts for the combustion of trichloroethene at dry and wet conditions. <i>Applied Catalysis B: Environmental</i> , 2006, 64, 262-271.	10.8	45
18	CORRELATION FOR THE ESTIMATION OF GAS-LIQUID DIFFUSIVITY. <i>Chemical Engineering Communications</i> , 1987, 52, 271-281.	1.5	37

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19	Comparison of adsorption properties of a chemically activated and a steam-activated carbon, using inverse gas chromatography. <i>Microporous and Mesoporous Materials</i> , 2005, 82, 173-181.	2.2	37
20	Benylation of benzene over Fe-modified ZSM-5 zeolites: Correlation between activity and adsorption properties. <i>Applied Catalysis A: General</i> , 2005, 295, 106-115.	2.2	36
21	Hydrodeoxygenation of furfural-acetone condensation adducts to tridecane over platinum catalysts. <i>Catalysis Today</i> , 2016, 269, 132-139.	2.2	33
22	Catalytic combustion of methane over commercial catalysts in presence of ammonia and hydrogen sulphide. <i>Chemosphere</i> , 2004, 55, 681-689.	4.2	32
23	Consequences of MgO activation procedures on its catalytic performance for acetone self-condensation. <i>Applied Catalysis B: Environmental</i> , 2014, 147, 796-804.	10.8	31
24	Evaluation of different zeolites in their parent and protonated forms for the catalytic combustion of hexane and benzene. <i>Microporous and Mesoporous Materials</i> , 2005, 83, 292-300.	2.2	29
25	Characterization of Co, Fe and Mn-exchanged zeolites by inverse gas chromatography. <i>Journal of Chromatography A</i> , 2004, 1049, 161-169.	1.8	23
26	Evaluation of adsorption properties of zeolites using inverse gas chromatography: comparison with immersion calorimetry. <i>Thermochimica Acta</i> , 2005, 434, 9-14.	1.2	22
27	Influence of catalyst treatments on the adsorption properties of $\gamma$ -Al <sub>2</sub> O <sub>3</sub> supported Pt, Rh and Ru catalysts. <i>Microporous and Mesoporous Materials</i> , 2005, 77, 245-255.	2.2	21
28	Characterization of polyarylamide fibers by inverse gas chromatography. <i>Journal of Chromatography A</i> , 2002, 962, 153-160.	1.8	20
29	Consequences of cavity size and chemical environment on the adsorption properties of isorecticular metal-organic frameworks: An inverse gas chromatography study. <i>Journal of Chromatography A</i> , 2013, 1274, 173-180.	1.8	19
30	Optimization of catalyzed epoxidation of unsaturated fatty acids by using tendency models. <i>Chemical Engineering Science</i> , 1990, 45, 2067-2074.	1.9	18
31	Diffusivities of carbon dioxide and nitrous oxide in aqueous alcohol solutions. <i>Journal of Chemical &amp; Engineering Data</i> , 1988, 33, 10-12.	1.0	17
32	Extractive Distillation of Hydrocarbons with Dimethylformamide: Experimental and Simulation Data. <i>Industrial &amp; Engineering Chemistry Research</i> , 1997, 36, 4934-4939.	1.8	17
33	Membrane pilot reactor applied to selective oxidation reactions. <i>Catalysis Today</i> , 2005, 104, 177-184.	2.2	17
34	Transition metal-exchanged LTA zeolites as novel catalysts for methane combustion. <i>Catalysis Today</i> , 2010, 157, 425-431.	2.2	15
35	Partial oxidation of n-butane to maleic anhydride over VPO in a simulated circulating fluidized bed reactor. <i>Applied Catalysis A: General</i> , 2010, 376, 76-82.	2.2	13
36	A kinetic study of CO <sub>2</sub> desorption from basic materials: Correlation with adsorption properties. <i>Chemical Engineering Journal</i> , 2011, 175, 341-348.	6.6	13

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37	Programmed cooling control of a batch crystallizer. <i>Computers and Chemical Engineering</i> , 1995, 19, 471-476.	2.0	12
38	Hydrocarbons adsorption on metal trimesate MOFs: Inverse gas chromatography and immersion calorimetry studies. <i>Thermochimica Acta</i> , 2015, 602, 36-42.	1.2	12
39	Control of regenerative catalytic oxidizers used in coal mine ventilation air methane exploitation. <i>Chemical Engineering Research and Design</i> , 2020, 134, 333-342.	2.7	12
40	Activity Coefficients at Infinite Dilution of Organic Compounds in Acetonitrile and Methanol by Liquid Chromatography. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1990, 13, 789-801.	0.9	10
41	Methane separation from diluted mixtures by fixed bed adsorption using MOFs: Model validation and parametric studies. <i>Separation and Purification Technology</i> , 2020, 251, 117374.	3.9	10
42	Determination of solubility parameters and thermodynamic properties in hydrocarbon-solvent systems by gas chromatography. <i>Brazilian Journal of Chemical Engineering</i> , 2007, 24, 293-306.	0.7	8
43	Activity coefficients at infinite dilution determined by gas-liquid chromatography. <i>Journal of Chromatography A</i> , 1991, 586, 303-307.	1.8	7
44	Characterization of nanocarbons (nanotubes and nanofibers) by Inverse Gas Chromatography. <i>Journal of Physics: Conference Series</i> , 2007, 61, 904-908.	0.3	7
45	Activity Coefficients for Cyclohexane, Cyclohexene, and Benzene in Extractive Distillation Solvents Using Non-Steady-State Gas Chromatography. <i>Journal of Chemical &amp; Engineering Data</i> , 2001, 46, 98-101.	1.0	6
46	Sugar-cellulose composites. VI. Economic evaluation of lactose production from cheese whey for use in paper. <i>Journal of the Science of Food and Agriculture</i> , 2002, 82, 1224-1231.	1.7	6
47	Selectivity of Several Liquid Phases for the Separation of Pine Terpenes by Gas Chromatography. <i>Chromatographia</i> , 2004, 60, 573-578.	0.7	5
48	Determination of Metal Dispersion and Surface Acidity of a Pd/Al <sub>2</sub> O <sub>3</sub> Catalyst by Gas Chromatography. <i>Chromatographia</i> , 2005, 61, 285-290.	0.7	5
49	Cyclohexene Reactivity over Palladium Acetate Supported in Liquid Phase. <i>Catalysis Letters</i> , 2004, 96, 169-175.	1.4	4
50	Heat transfer studies in an inorganic membrane reactor at pilot plant scale. <i>Catalysis Today</i> , 2006, 118, 32-38.	2.2	4
51	Programmed cooling control of a batch crystallizer. <i>Computers and Chemical Engineering</i> , 1995, 19, S471-S476.	2.0	2
52	Enhancement of the activity of CaA zeolites as deep oxidation catalysts through transition metal ion exchange. <i>Studies in Surface Science and Catalysis</i> , 2005, , 1653-1660.	1.5	1
53	Inverse GC Investigation of the Adsorption of Thiophenic Compounds on Zeolites. <i>Chromatographia</i> , 2006, 64, 207-213.	0.7	1
54	An IGC Study of the Role of Washing Procedures on the Adsorption Properties of Activated Carbons. <i>Adsorption Science and Technology</i> , 2007, 25, 99-112.	1.5	1

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55	Dynamics of a Batch Cooling Crystallizer.. Journal of Chemical Engineering of Japan, 1996, 29, 817-824.	0.3	0