

Gino V Baron

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9327996/publications.pdf>

Version: 2024-02-01

65
papers

2,764
citations

201385

27
h-index

182168

51
g-index

66
all docs

66
docs citations

66
times ranked

3381
citing authors

#	ARTICLE	IF	CITATIONS
1	Pore-Filling-Dependent Selectivity Effects in the Vapor-Phase Separation of Xylene Isomers on the Metal-Organic Framework MIL-47. <i>Journal of the American Chemical Society</i> , 2008, 130, 7110-7118.	6.6	278
2	High-Temperature Low-Pressure Adsorption of Branched C ₅ ~C ₈ Alkanes on Zeolite Beta, ZSM-5, ZSM-22, Zeolite Y, and Mordenite. <i>Journal of Physical Chemistry B</i> , 1998, 102, 4588-4597.	1.2	212
3	Adsorption and Diffusion Phenomena in Crystal Size Engineered ZIF-8 MOF. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28430-28439.	1.5	204
4	Biobutanol Separation with the Metal-Organic Framework ZIF-8. <i>ChemSusChem</i> , 2011, 4, 1074-1077.	3.6	192
5	Gel-based morphological design of zirconium metal-organic frameworks. <i>Chemical Science</i> , 2017, 8, 3939-3948.	3.7	177
6	The role of crystal diversity in understanding mass transfer in nanoporous materials. <i>Nature Materials</i> , 2016, 15, 401-406.	13.3	142
7	Adsorption of normal and branched paraffins in faujasite zeolites NaY, HY, Pt/NaY and USY. <i>Adsorption</i> , 1997, 3, 251-265.	1.4	84
8	Selective Dynamic CO ₂ Separations on Mg-MOF-74 at Low Pressures: A Detailed Comparison with 13X. <i>Journal of Physical Chemistry C</i> , 2013, 117, 9301-9310.	1.5	79
9	Catalyst Design by NH ₄ OH Treatment of USY Zeolite. <i>Advanced Functional Materials</i> , 2015, 25, 7130-7144.	7.8	76
10	High Adsorption Capacities and Two-Step Adsorption of Polar Adsorbates on Copper-Benzene-1,3,5-tricarboxylate Metal-Organic Framework. <i>Journal of Physical Chemistry C</i> , 2013, 117, 18100-18111.	1.5	67
11	Very High Efficiency Porous Silica Layer Open-Tubular Capillary Columns Produced via in-Column Sol-Gel Processing. <i>Analytical Chemistry</i> , 2016, 88, 10158-10166.	3.2	62
12	Adsorption of Alkanes and Other Organic Molecules in Liquid Phase and in the Dense Vapor Phase: Influence of Polarity, Zeolite Topology, and External Fluid Density and Pressure. <i>Industrial & Engineering Chemistry Research</i> , 1998, 37, 3691-3698.	1.8	59
13	Development of a Tar Reforming Catalyst for Integration in a Ceramic Filter Element and Use in Hot Gas Cleaning. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 1945-1951.	1.8	58
14	Adsorption and Separation of C ₁ ~C ₈ Alcohols on SAPO-34. <i>Journal of Physical Chemistry C</i> , 2011, 115, 8117-8125.	1.5	58
15	Packing Effects in the Liquid-Phase Adsorption of C ₅ -C _{22n} -Alkanes on ZSM-5. <i>Journal of Physical Chemistry B</i> , 2003, 107, 10760-10766.	1.2	51
16	The Possibility of Generating High-Speed Shear-Driven Flows and Their Potential Application in Liquid Chromatography. <i>Analytical Chemistry</i> , 2000, 72, 2160-2165.	3.2	47
17	Vapor-Phase Adsorption and Separation of Ethylbenzene and Styrene on the Metal-Organic Frameworks MIL-47 and MIL-53(Al). <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 14824-14833.	1.8	45
18	Highly Robust MOF Polymeric Beads with a Controllable Size for Molecular Separations. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 13694-13703.	4.0	43

#	ARTICLE	IF	CITATIONS
19	Simulation of growth of a filamentous fungus in 3 dimensions. , 1997, 53, 139-150.		39
20	An explicit multicomponent adsorption isotherm model: accounting for the size-effect for components with Langmuir adsorption behavior. Adsorption, 2018, 24, 517-530.	1.4	38
21	Shape selective properties of the Al-fumarate metal-organic framework in the adsorption and separation of n-alkanes, iso-alkanes, cyclo-alkanes and aromatic hydrocarbons. Physical Chemistry Chemical Physics, 2016, 18, 3294-3301.	1.3	36
22	Adsorption and Separation of Small Hydrocarbons on the Flexible, Vanadium-Containing MOF, COMOC-2. Langmuir, 2015, 31, 5063-5070.	1.6	34
23	Design of Optimum Zeolite Pore System for Central Hydrocracking of Long-Chain n-Alkanes based on a Single-Event Microkinetic Model. Topics in Catalysis, 2009, 52, 1251-1260.	1.3	31
24	Effect of polyethylene glycol on pore structure and separation efficiency of silica-based monolithic capillary columns. Journal of Chromatography A, 2016, 1442, 42-52.	1.8	31
25	Competitive physisorption effects in hydroisomerisation of n-alkane mixtures on Pt/Y and Pt/USY zeolite catalysts. Physical Chemistry Chemical Physics, 2000, 2, 1007-1014.	1.3	30
26	Intensified Biobutanol Recovery by using Zeolites with Complementary Selectivity. ChemSusChem, 2017, 10, 2968-2977.	3.6	30
27	Length exclusion in the adsorption of chain molecules on chabazite type zeolites. Chemical Communications, 2007, , 1316.	2.2	29
28	Dynamic desorption of CO ₂ and CH ₄ from amino-MIL-53(Al) adsorbent. Adsorption, 2013, 19, 1235-1244.	1.4	28
29	Prediction of Molecular Separation of Polar-Apolar Mixtures on Heterogeneous Metal-Organic Frameworks: HKUST-1. Langmuir, 2014, 30, 7878-7883.	1.6	28
30	Adsorption of polyethylene from thermodynamically good solvents on a zeolite stationary phase. Journal of Separation Science, 2003, 26, 1569-1574.	1.3	27
31	Chromatographic Properties of Minimal Aspect Ratio Monolithic Silica Columns. Analytical Chemistry, 2017, 89, 10948-10956.	3.2	25
32	Silica-based hybrid porous layers to enhance the retention and efficiency of open tubular capillary columns with a 5 μ m inner diameter. Journal of Chromatography A, 2018, 1580, 63-71.	1.8	25
33	Nonuniform Chain-Length-Dependent Diffusion of Short 1-Alcohols in SAPO-34 in Liquid Phase. Journal of Physical Chemistry C, 2013, 117, 9758-9765.	1.5	22
34	Adsorption of CO ₂ and N ₂ in Na-ZSM-5: effects of Na ⁺ and Al content studied by Grand Canonical Monte Carlo simulations and experiments. Adsorption, 2014, 20, 157-171.	1.4	22
35	Separation properties of the MIL-125(Ti) Metal-Organic Framework in high-performance liquid chromatography revealing cis/trans selectivity. Journal of Chromatography A, 2016, 1469, 68-76.	1.8	22
36	Molecular separations with breathing metal-organic frameworks: modelling packed bed adsorbers. Dalton Transactions, 2016, 45, 4416-4430.	1.6	22

#	ARTICLE	IF	CITATIONS
37	Effect of core-shell structuring of chabazite zeolite with a siliceous zeolite thin layer on the separation of acetone-butanol-ethanol vapor in humid vapor conditions. <i>Chemical Engineering Journal</i> , 2019, 363, 292-299.	6.6	22
38	Residence time distribution in a packed bed bioreactor containing porous glass particles: Influence of the presence of immobilized cells. <i>Journal of Chemical Technology and Biotechnology</i> , 1994, 59, 297-302.	1.6	21
39	Parallel Tempering Simulations of Liquid-Phase Adsorption of <i>n</i> -Alkane Mixtures in Zeolite LTA-5A. <i>Journal of Physical Chemistry C</i> , 2011, 115, 762-769.	1.5	18
40	The Confinement Factor: A Thermodynamic Parameter to Characterize Microporous Adsorbents. <i>Adsorption</i> , 2005, 11, 85-90.	1.4	17
41	Development of nickel-activated catalytic filters for tar removal in H ₂ S-containing biomass gasification gas. <i>Journal of Chemical Technology and Biotechnology</i> , 2003, 78, 265-268.	1.6	16
42	Comprehensive study of the macropore and mesopore size distributions in polymer monoliths using complementary physical characterization techniques and liquid chromatography. <i>Journal of Separation Science</i> , 2016, 39, 4492-4501.	1.3	16
43	Nanoporous ZSM-5 Crystals Coated with Silicalite-1 for Enhanced <i>p</i> -Xylene Separation. <i>ACS Applied Nano Materials</i> , 2019, 2, 2642-2650.	2.4	16
44	Exploiting Pore or Cavity Size and Shape in Separating Linear and Branched Hydrocarbons by Inverse Selectivity: Enthalpy, Entropy and Packing Effects. <i>Adsorption</i> , 2005, 11, 49-53.	1.4	15
45	Performance of small-domain monolithic silica columns in nano-liquid chromatography and comparison with commercial packed bed columns with 2 Åµm particles. <i>Journal of Chromatography A</i> , 2020, 1616, 460804.	1.8	15
46	Applying sustainable technology for saving primary energy in the brewhouse during beer brewing. <i>Clean Technologies and Environmental Policy</i> , 2004, 7, 15-32.	2.1	14
47	Stepped water isotherm and breakthrough curves on aluminium fumarate metal-organic framework: experimental and modelling study. <i>Adsorption</i> , 2017, 23, 185-192.	1.4	13
48	Modeling the exponential growth of filamentous fungi during batch cultivation. , 1998, 60, 169-179.		12
49	Evaluation of Experimental Methods for the Study of Liquid-Phase Adsorption of Alkane/Alkene Mixtures on Y Zeolites. <i>Adsorption</i> , 2005, 11, 189-194.	1.4	12
50	Exploring the effect of mesopore size reduction on the column performance of silica-based open tubular capillary columns. <i>Journal of Chromatography A</i> , 2018, 1552, 87-91.	1.8	11
51	Nonideality in the Adsorption of Ethanol/Ethyl Acetate/Water Mixtures On ZIF-8 Metal Organic Framework. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 7040-7047.	1.8	11
52	Preparation and evaluation of mesoporous silica layers on radially elongated pillars. <i>Journal of Chromatography A</i> , 2017, 1523, 234-241.	1.8	10
53	Identifying Selective Adsorbents for the Recovery of Renewable Isobutanol. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 9115-9124.	3.2	10
54	Capturing renewable isobutanol from model vapor mixtures using an all-silica beta zeolite. <i>Chemical Engineering Journal</i> , 2021, 412, 128658.	6.6	9

#	ARTICLE	IF	CITATIONS
55	Experimental Study of Adsorptive Interactions of Polar and Nonpolar Adsorbates in the Zeolitic Imidazolate Framework ZIF-68 via Pulse Gas Chromatography. Journal of Physical Chemistry C, 2015, 119, 1832-1839.	1.5	8
56	Chromatographic study of the structural properties of mesoporous silica layers deposited on radially elongated pillars. Journal of Chromatography A, 2019, 1595, 58-65.	1.8	7
57	Tracer Chromatographic Adsorption Studies in Relation to Liquid-Phase Catalysis. Topics in Catalysis, 2003, 23, 191-198.	1.3	6
58	Modeling of Toluene Acetylation with Acetic Anhydride on H-USY Zeolite. Industrial & Engineering Chemistry Research, 2011, 50, 11822-11832.	1.8	6
59	Metal-organic framework ZIF-8 for exceptional HCl removal from Hydrogen gas by reaction. International Journal of Hydrogen Energy, 2022, 47, 20556-20560.	3.8	6
60	Adsorption Size Effects for Langmuir Systems in Process Simulators: Case Study Comparing Explicit Langmuir-Based Models and FASTIAS. Industrial & Engineering Chemistry Research, 2021, 60, 12092-12099.	1.8	5
61	Hierarchical Zeolite: Catalyst Design by NH ₄ OH Treatment of USY Zeolite (Adv. Funct. Mater.)	7.8	3
62	Evaluation of particle and bed integrity of aqueous size-exclusion columns packed with sub-2 μm particles operated at high pressure. Journal of Chromatography A, 2020, 1621, 461064.	1.8	3
63	PROBING THE CUT-OFF FOR INTRACRYSTALLINE ADSORPTION ON ZEOLITES: PORE MOUTH ADSORPTION. , 2003, , .		1
64	SHEAR-DRIVEN CHROMATOGRAPHY: PERFORMING HIGH-VELOCITY OPEN-TUBULAR CHROMATOGRAPHIC SEPARATIONS AT ZERO PRESSURE DROP. , 2000, , .		0
65	Performance of functionalized monolithic silica capillary columns with different mesopore sizes using radical polymerization of octadecyl methacrylate. Journal of Chromatography A, 2021, 1651, 462282.	1.8	0