# Gino V Baron

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | 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 |
| 2 | Capturing renewable isobutanol from model vapor mixtures using an all-silica beta zeolite. Chemical Engineering Journal, 2021, 412, 128658. | 6.6 | 9 |
| 3 | 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 |
| 4 | 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 |
| 5 | Performance of small-domain monolithic silica columns in nano-liquid chromatography and comparison with commercial packed bed columns with 2 Âµm particles. Journal of Chromatography A, 2020, 1616, 460804. | 1.8 | 15 |
| 6 | Identifying Selective Adsorbents for the Recovery of Renewable Isobutanol. ACS Sustainable Chemistry and Engineering, 2020, 8, 9115-9124. | 3.2 | 10 |
| 7 | Evaluation of particle and bed integrity of aqueous size-exclusion columns packed with sub-2ÂÂµm particles operated at high pressure. Journal of Chromatography A, 2020, 1621, 461064. | 1.8 | 3 |
| 8 | 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. Chemical Engineering Journal, 2019, 363, 292-299. | 6.6 | 22 |
| 9 | Nanoporous ZSM-5 Crystals Coated with Silicalite-1 for Enhanced p-Xylene Separation. ACS Applied Nano Materials, 2019, 2, 2642-2650. | 2.4 | 16 |
| 10 | Highly Robust MOF Polymeric Beads with a Controllable Size for Molecular Separations. ACS Applied Materials & Interfaces, 2019, 11, 13694-13703. | 4.0 | 43 |
| 11 | 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 |
| 12 | Exploring the effect of mesopore size reduction on the column performance of silica-based open tubular capillary columns. Journal of Chromatography A, 2018, 1552, 87-91. | 1.8 | 11 |
| 13 | Nonideality in the Adsorption of Ethanol/Ethyl Acetate/Water Mixtures On ZIF-8 Metal Organic Framework. Industrial & Engineering Chemistry Research, 2018, 57, 7040-7047. | 1.8 | 11 |
| 14 | Silica-based hybrid porous layers to enhance the retention and efficiency of open tubular capillary columns with a 5 Î¼m inner diameter. Journal of Chromatography A, 2018, 1580, 63-71. | 1.8 | 25 |
| 15 | 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 |
| 16 | Intensified Biobutanol Recovery by using Zeolites with Complementary Selectivity. ChemSusChem, 2017, 10, 2968-2977. | 3.6 | 30 |
| 17 | Gel-based morphological design of zirconium metalâ€“organic frameworks. Chemical Science, 2017, 8, 3939-3948. | 3.7 | 177 |
| 18 | Stepped water isotherm and breakthrough curves on aluminium fumarate metalâ€“organic framework: experimental and modelling study. Adsorption, 2017, 23, 185-192. | 1.4 | 13 |

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|---|---|---|---|
| 19 | Chromatographic Properties of Minimal Aspect Ratio Monolithic Silica Columns. Analytical Chemistry, 2017, 89, 10948-10956. | 3.2 | 25 |
| 20 | Preparation and evaluation of mesoporous silica layers on radially elongated pillars. Journal of Chromatography A, 2017, 1523, 234-241. | 1.8 | 10 |
| 21 | 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 |
| 22 | Comprehensive study of the macropore and mesopore size distributions in polymer monoliths using complementary physical characterization techniques and liquid chromatography. Journal of Separation Science, 2016, 39, 4492-4501. | 1.3 | 16 |
| 23 | Very High Efficiency Porous Silica Layer Open-Tubular Capillary Columns Produced via in-Column Solâ€“Gel Processing. Analytical Chemistry, 2016, 88, 10158-10166. | 3.2 | 62 |
| 24 | Shape selective properties of the Al-fumarate metalâ€“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 |
| 25 | 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 |
| 26 | Molecular separations with breathing metalâ€“organic frameworks: modelling packed bed adsorbers. Dalton Transactions, 2016, 45, 4416-4430. | 1.6 | 22 |
| 27 | The role of crystal diversity in understanding mass transfer in nanoporous materials. Nature Materials, 2016, 15, 401-406. | 13.3 | 142 |
| 28 | Catalyst Design by NH<sub>4</sub>OH Treatment of USY Zeolite. Advanced Functional Materials, 2015, 25, 7130-7144. | 7.8 | 76 |
| 29 | Hierarchical Zeolite: Catalyst Design by NH<sub>4</sub>OH Treatment of USY Zeolite (Adv. Funct.) Tj ETQq1 1 0.784314 rgBT /Overlo | 7.8 | 3 |
| 30 | Adsorption and Diffusion Phenomena in Crystal Size Engineered ZIF-8 MOF. Journal of Physical Chemistry C, 2015, 119, 28430-28439. | 1.5 | 204 |
| 31 | 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 |
| 32 | Adsorption and Separation of Small Hydrocarbons on the Flexible, Vanadium-Containing MOF, COMOC-2. Langmuir, 2015, 31, 5063-5070. | 1.6 | 34 |
| 33 | Adsorption of CO2 and N2 in Naâ€“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 |
| 34 | Prediction of Molecular Separation of Polarâ€“Apolar Mixtures on Heterogeneous Metalâ€“Organic Frameworks: HKUST-1. Langmuir, 2014, 30, 7878-7883. | 1.6 | 28 |
| 35 | High Adsorption Capacities and Two-Step Adsorption of Polar Adsorbates on Copperâ€“Benzene-1,3,5-tricarboxylate Metalâ€“Organic Framework. Journal of Physical Chemistry C, 2013, 117, 18100-18111. | 1.5 | 67 |
| 36 | Dynamic desorption of CO2 and CH4 from amino-MIL-53(Al) adsorbent. Adsorption, 2013, 19, 1235-1244. | 1.4 | 28 |

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|---|---|---|---|
| 37 | 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 |
| 38 | Selective Dynamic CO<sub>2</sub> Separations on Mg-MOF-74 at Low Pressures: A Detailed Comparison with 13X. Journal of Physical Chemistry C, 2013, 117, 9301-9310. | 1.5 | 79 |
| 39 | Vapor-Phase Adsorption and Separation of Ethylbenzene and Styrene on the Metalâ€“Organic Frameworks MIL-47 and MIL-53(Al). Industrial & Engineering Chemistry Research, 2012, 51, 14824-14833. | 1.8 | 45 |
| 40 | Parallel Tempering Simulations of Liquid-Phase Adsorption of n-Alkane Mixtures in Zeolite LTA-5A. Journal of Physical Chemistry C, 2011, 115, 762-769. | 1.5 | 18 |
| 41 | Adsorption and Separation of C1â^'C8 Alcohols on SAPO-34. Journal of Physical Chemistry C, 2011, 115, 8117-8125. | 1.5 | 58 |
| 42 | Modeling of Toluene Acetylation with Acetic Anhydride on H-USY Zeolite. Industrial & Engineering Chemistry Research, 2011, 50, 11822-11832. | 1.8 | 6 |
| 43 | Biobutanol Separation with the Metalâ€“Organic Framework ZIFâ€8. ChemSusChem, 2011, 4, 1074-1077. | 3.6 | 192 |
| 44 | 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 |
| 45 | Pore-Filling-Dependent Selectivity Effects in the Vapor-Phase Separation of Xylene Isomers on the Metalâ^'Organic Framework MIL-47. Journal of the American Chemical Society, 2008, 130, 7110-7118. | 6.6 | 278 |
| 46 | Length exclusion in the adsorption of chain molecules on chabazite type zeolites. Chemical Communications, 2007, , 1316. | 2.2 | 29 |
| 47 | Development of a Tar Reforming Catalyst for Integration in a Ceramic Filter Element and Use in Hot Gas Cleaning. Industrial & Engineering Chemistry Research, 2007, 46, 1945-1951. | 1.8 | 58 |
| 48 | Exploiting Pore or Cavity Size and Shape in Separating Linear and Branched Hydrocarbons by Inverse Selectivity: Enthalpy, Entropy and Packing Effects. Adsorption, 2005, 11, 49-53. | 1.4 | 15 |
| 49 | The Confinement Factor: A Thermodynamic Parameter to Characterize Microporous Adsorbents. Adsorption, 2005, 11, 85-90. | 1.4 | 17 |
| 50 | Evaluation of Experimental Methods for the Study of Liquid-Phase Adsorption of Alkane/Alkene Mixtures on Y Zeolites. Adsorption, 2005, 11, 189-194. | 1.4 | 12 |
| 51 | Applying sustainable technology for saving primary energy in the brewhouse during beer brewing. Clean Technologies and Environmental Policy, 2004, 7, 15-32. | 2.1 | 14 |
| 52 | Tracer Chromatographic Adsorption Studies in Relation to Liquid-Phase Catalysis. Topics in Catalysis, 2003, 23, 191-198. | 1.3 | 6 |
| 53 | Adsorption of polyethylene from thermodynamically good solvents on a zeolite stationary phase. Journal of Separation Science, 2003, 26, 1569-1574. | 1.3 | 27 |
| 54 | Development of nickel-activated catalytic filters for tar removal in H2S-containing biomass gasification gas. Journal of Chemical Technology and Biotechnology, 2003, 78, 265-268. | 1.6 | 16 |

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| 55 | Packing Effects in the Liquid-Phase Adsorption of C5-C22n-Alkanes on ZSM-5. Journal of Physical Chemistry B, 2003, 107, 10760-10766. | 1.2 | 51 |
| 56 | PROBING THE CUT-OFF FOR INTRACRYSTALLINE ADSORPTION ON ZEOLITES: PORE MOUTH ADSORPTION. , 2003, , . | | 1 |
| 57 | SHEAR-DRIVEN CHROMATOGRAPHY: PERFORMING HIGH-VELOCITY OPEN-TUBULAR CHROMATOGRAPHIC SEPARATIONS AT ZERO PRESSURE DROP. , 2000, , . | | 0 |
| 58 | 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 |
| 59 | The Possibility of Generating High-Speed Shear-Driven Flows and Their Potential Application in Liquid Chromatography. Analytical Chemistry, 2000, 72, 2160-2165. | 3.2 | 47 |
| 60 | Modeling the exponential growth of filamentous fungi during batch cultivation. , 1998, 60, 169-179. | | 12 |
| 61 | High-Temperature Low-Pressure Adsorption of Branched C5â˜C8 Alkanes on Zeolite Beta, ZSM-5, ZSM-22, Zeolite Y, and Mordenite. Journal of Physical Chemistry B, 1998, 102, 4588-4597. | 1.2 | 212 |
| 62 | Adsorption of Alkanes and Other Organic Molecules in Liquid Phase and in the Dense Vapor Phase:Â Influence of Polarity, Zeolite Topology, and External Fluid Density and Pressure. Industrial & Engineering Chemistry Research, 1998, 37, 3691-3698. | 1.8 | 59 |
| 63 | Adsorption of normal and branched paraffins in faujasite zeolites NaY, HY, Pt/NaY and USY. Adsorption, 1997, 3, 251-265. | 1.4 | 84 |
| 64 | Simulation of growth of a filamentous fungus in 3 dimensions. , 1997, 53, 139-150. | | 39 |
| 65 | Residence time distribution in a packed bed bioreactor containing porous glass particles: Influence of the presence of immobilized cells. Journal of Chemical Technology and Biotechnology, 1994, 59, 297-302. | 1.6 | 21 |