

Juan JosÃ© GutiÃ©rrez-Sevillano

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1544898/publications.pdf>

Version: 2024-02-01

42
papers

1,368
citations

279701

23
h-index

330025

37
g-index

42
all docs

42
docs citations

42
times ranked

2014
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding Gas-Induced Structural Deformation of ZIF-8. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1159-1164.	2.1	143
2	Effect of Room-Temperature Ionic Liquids on CO ₂ Separation by a Cu-BTC Metal-Organic Framework. <i>Journal of Physical Chemistry C</i> , 2013, 117, 20762-20768.	1.5	84
3	Molecular Mechanisms for Adsorption in Cu-BTC Metal Organic Framework. <i>Journal of Physical Chemistry C</i> , 2013, 117, 11357-11366.	1.5	81
4	Zeolite screening for the separation of gas mixtures containing SO ₂ , CO ₂ and CO. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 19884.	1.3	81
5	Understanding Adsorption of Highly Polar Vapors on Mesoporous MIL-100(Cr) and MIL-101(Cr): Experiments and Molecular Simulations. <i>Journal of Physical Chemistry C</i> , 2013, 117, 7613-7622.	1.5	79
6	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
7	Solubility of the Precombustion Gases CO ₂ , CH ₄ , CO, H ₂ , N ₂ , and H ₂ S in the Ionic Liquid [bmim][Tf ₂ N] from Monte Carlo Simulations. <i>Journal of Physical Chemistry C</i> , 2014, 118, 23599-23604.	1.5	67
8	Enantioselective adsorption of ibuprofen and lysine in metal-organic frameworks. <i>Chemical Communications</i> , 2014, 50, 10849.	2.2	52
9	Adsorption of hydrogen sulphide on Metal-Organic Frameworks. <i>RSC Advances</i> , 2013, 3, 14737.	1.7	49
10	Analysis of the ITQ-12 Zeolite Performance in Propane-Propylene Separations Using a Combination of Experiments and Molecular Simulations. <i>Journal of Physical Chemistry C</i> , 2010, 114, 14907-14914.	1.5	47
11	Modeling Gas Adsorption in Flexible Metal-Organic Frameworks via Hybrid Monte Carlo/Molecular Dynamics Schemes. <i>Advanced Theory and Simulations</i> , 2019, 2, 1800177.	1.3	40
12	Role of Ionic Liquid [EMIM] ⁺ [SCN] ⁻ in the Adsorption and Diffusion of Gases in Metal-Organic Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29694-29704.	4.0	38
13	Methane Adsorption in Zr-Based MOFs: Comparison and Critical Evaluation of Force Fields. <i>Journal of Physical Chemistry C</i> , 2017, 121, 25309-25322.	1.5	34
14	Insights on the Molecular Mechanisms of Hydrogen Adsorption in Zeolites. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14374-14380.	1.5	33
15	Molecular dynamics simulations of organohalide perovskite precursors: solvent effects in the formation of perovskite solar cells. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 22770-22777.	1.3	32
16	Transferable force fields for adsorption of small gases in zeolites. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 24048-24055.	1.3	30
17	How ligands improve the hydrothermal stability and affect the adsorption in the IRMOF family. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 17696.	1.3	29
18	Selective Adsorption of Water from Mixtures with 1-Alcohols by Exploitation of Molecular Packing Effects in CuBTC. <i>Journal of Physical Chemistry C</i> , 2015, 119, 3658-3666.	1.5	29

#	ARTICLE	IF	CITATIONS
19	Validation of the CO ₂ /N ₂ O Analogy Using Molecular Simulation. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 18081-18090.	1.8	28
20	Water adsorption in ideal and defective UiO-66 structures. <i>Microporous and Mesoporous Materials</i> , 2022, 330, 111555.	2.2	28
21	Molecular simulation investigation into the performance of Cu-BTC metal-organic frameworks for carbon dioxide-methane separations. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 20453.	1.3	25
22	Toward a Transferable Set of Charges to Model Zeolitic Imidazolate Frameworks: Combined Experimental-Theoretical Research. <i>Journal of Physical Chemistry C</i> , 2013, 117, 466-471.	1.5	24
23	Strategies to Simultaneously Enhance the Hydrostability and the Alcohol-Water Separation Behavior of Cu-BTC. <i>Journal of Physical Chemistry C</i> , 2013, 117, 20706-20714.	1.5	23
24	Simulation Study of Structural Changes in Zeolite RHO. <i>Journal of Physical Chemistry C</i> , 2013, 117, 11592-11599.	1.5	23
25	Zeolites for the selective adsorption of sulfur hexafluoride. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 18121-18130.	1.3	22
26	Critical Role of Dynamic Flexibility in Ge-Containing Zeolites: Impact on Diffusion. <i>Chemistry - A European Journal</i> , 2016, 22, 10036-10043.	1.7	22
27	Separation of benzene from mixtures with water, methanol, ethanol, and acetone: highlighting hydrogen bonding and molecular clustering influences in CuBTC. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 20114-20124.	1.3	20
28	Adsorptive separation of ethane and ethylene using IsoReticular Metal-Organic Frameworks. <i>Microporous and Mesoporous Materials</i> , 2017, 248, 40-45.	2.2	20
29	Identifying Zeolite Topologies for Storage and Release of Hydrogen. <i>Journal of Physical Chemistry C</i> , 2018, 122, 12485-12493.	1.5	20
30	Carbon Dioxide Capture Enhanced by Pre-Adsorption of Water and Methanol in UiO-66. <i>Chemistry - A European Journal</i> , 2021, 27, 14653-14659.	1.7	17
31	A Simulation Study of Hydrogen in Metal-Organic Frameworks. <i>Adsorption Science and Technology</i> , 2010, 28, 823-835.	1.5	14
32	Effect of the molecular interactions on the separation of nonpolar mixtures using Cu-BTC metal-organic framework. <i>Microporous and Mesoporous Materials</i> , 2013, 165, 79-83.	2.2	13
33	Macroscopic and Microscopic View of Competitive and Cooperative Adsorption of Alcohol Mixtures on ZIF-8. <i>Langmuir</i> , 2019, 35, 3887-3896.	1.6	11
34	Separation of Amyl Alcohol Isomers in ZIF-77. <i>ChemPhysChem</i> , 2015, 16, 2735-2738.	1.0	8
35	Effect of Light Gases in the Ethane/Ethylene Separation Using Zeolitic Imidazolate Frameworks. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8637-8646.	1.5	8
36	Metastable Zr/Hf-MOFs: the hexagonal family of EHU-30 and their water-sorption induced structural transformation. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 4767-4779.	3.0	8

#	ARTICLE	IF	CITATIONS
37	OCEAN: An Algorithm to Predict the Separation of Biogas Using Zeolites. Industrial & Engineering Chemistry Research, 2020, 59, 7212-7223.	1.8	7
38	COSMO-3D: Incorporating Three-Dimensional Contact Information into the COSMO-SAC Model. Industrial & Engineering Chemistry Research, 2015, 54, 2214-2226.	1.8	5
39	Modifying the hydrophobic nature of MAF-6. Separation and Purification Technology, 2021, 277, 119422.	3.9	3
40	Computational Approaches to Zeolite-Based Adsorption Processes. Structure and Bonding, 2020, , 57-83.	1.0	2
41	Using Aliphatic Alcohols to Tune Benzene Adsorption in MAF-6. Advanced Theory and Simulations, 2019, 2, 1900112.	1.3	1
42	On the design of models for an accurate description of the water-hematite interface. Applied Surface Science, 2021, 560, 149884.	3.1	1