

Daniel Bahamon

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/226110/publications.pdf>

Version: 2024-02-01

40
papers

955
citations

471371

17
h-index

454834

30
g-index

40
all docs

40
docs citations

40
times ranked

932
citing authors

#	ARTICLE	IF	CITATIONS
1	Modifying absorption process configurations to improve their performance for Post-Combustion CO ₂ capture – What have we learned and what is still Missing?. <i>Chemical Engineering Journal</i> , 2022, 430, 133096.	6.6	34
2	Molecular Thermodynamic Modeling of Hybrid Ionic Liquids for Biogas Upgrading. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 12190-12207.	1.8	1
3	Insights into the thermal stability and conversion of carbon-based materials by using ReaxFF reactive force field: Recent advances and future directions. <i>Carbon</i> , 2022, 196, 840-866.	5.4	32
4	Adhesion and Cohesion of Silica Surfaces with Quartz Cement: A Molecular Simulations Study. <i>ACS Omega</i> , 2022, 7, 22303-22316.	1.6	2
5	Insights into the performance of hybrid graphene oxide/MOFs for CO ₂ capture at process conditions by molecular simulations. <i>Chemical Engineering Journal</i> , 2022, 449, 137884.	6.6	10
6	Understanding the relationship between the structural properties of three corrosion inhibitors and their surface protectiveness ability in different environments. <i>Applied Surface Science</i> , 2021, 542, 148600.	3.1	25
7	A DFT study of the adsorption energy and electronic interactions of the SO ₂ molecule on a CoP hydrotreating catalyst. <i>RSC Advances</i> , 2021, 11, 2947-2957.	1.7	49
8	Are we missing something when evaluating adsorbents for CO ₂ capture at the system level?. <i>Energy and Environmental Science</i> , 2021, 14, 6360-6380.	15.6	16
9	Systematic Search of Suitable Metal-Organic Frameworks for Thermal Energy-Storage Applications with Low Global Warming Potential Refrigerants. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 3157-3171.	3.2	15
10	Grand Canonical Monte Carlo Simulations to Determine the Optimal Interlayer Distance of a Graphene Slit-Shaped Pore for Adsorption of Methane, Hydrogen and their Equimolar Mixture. <i>Nanomaterials</i> , 2021, 11, 2534.	1.9	5
11	Current and future perspectives on catalytic-based integrated carbon capture and utilization. <i>Science of the Total Environment</i> , 2021, 790, 148081.	3.9	67
12	Sustainability criteria as a game changer in the search for hybrid solvents for CO ₂ and H ₂ S removal. <i>Separation and Purification Technology</i> , 2021, 277, 119516.	3.9	11
13	How Molecular Modelling Tools Can Help in Mitigating Climate Change. <i>Molecular Modeling and Simulation</i> , 2021, , 181-220.	0.2	2
14	Computational modeling of green hydrogen generation from photocatalytic H ₂ S splitting: Overview and perspectives. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2021, 49, 100456.	5.6	15
15	Surface modification of anti-fouling novel cellulose/graphene oxide (GO) nanosheets (NS) microfiltration membranes for seawater desalination applications. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 1915-1925.	1.6	26
16	Perspectives and guidelines on thermodynamic modelling of deep eutectic solvents. <i>Journal of Molecular Liquids</i> , 2020, 298, 112183.	2.3	83
17	A Comparative Assessment of Emerging Solvents and Adsorbents for Mitigating CO ₂ Emissions From the Industrial Sector by Using Molecular Modeling Tools. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	20
18	Screening of Ionic Liquids and Deep Eutectic Solvents for Physical CO ₂ Absorption by Soft-SAFT Using Key Performance Indicators. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 5844-5861.	1.0	40

#	ARTICLE	IF	CITATIONS
19	Design of Sub- μ m Nanochannels between Graphene Oxide Sheets via Crown Ether Intercalation to Selectively Regulate Cation Permeation. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901876.	1.9	17
20	Performance of Activated Carbons Derived from Date Seeds in CO ₂ Swing Adsorption Determined by Combining Experimental and Molecular Simulation Data. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 7161-7173.	1.8	25
21	Effect of Amine Functionalization of MOF Adsorbents for Enhanced CO ₂ Capture and Separation: A Molecular Simulation Study. <i>Frontiers in Chemistry</i> , 2020, 8, 574622.	1.8	16
22	Assessing the Feasibility of Deep Eutectic Solvents For CO ₂ Capture From Molecular And Process Modeling. , 2020, , .		0
23	Insights into the Transport Properties of Electrolyte Solutions in a Hierarchical Carbon Electrode by Molecular Dynamics Simulations. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27273-27285.	1.5	11
24	Molecular simulations of phenol and ibuprofen removal from water using multilayered graphene oxide membranes. <i>Molecular Physics</i> , 2019, 117, 3703-3714.	0.8	15
25	Molecular simulations of carbon-based materials for selected CO ₂ separation and water treatment processes. <i>Fluid Phase Equilibria</i> , 2019, 492, 10-25.	1.4	19
26	Energetic evaluation of swing adsorption processes for CO ₂ capture in selected MOFs and zeolites: Effect of impurities. <i>Chemical Engineering Journal</i> , 2018, 342, 458-473.	6.6	76
27	Density Functional Theory-Based Adsorption Isotherms for Pure and Flue Gas Mixtures on Mg-MOF-74. Application in CO ₂ Capture Swing Adsorption Processes. <i>Journal of Physical Chemistry C</i> , 2018, 122, 3945-3957.	1.5	38
28	Computational study of ibuprofen removal from water by adsorption in realistic activated carbons. <i>Journal of Colloid and Interface Science</i> , 2017, 498, 323-334.	5.0	64
29	Optimal Faujasite structures for post combustion CO ₂ capture and separation in different swing adsorption processes. <i>Journal of CO₂ Utilization</i> , 2017, 19, 100-111.	3.3	35
30	Computational simulation study of the influence of faujasite Si/Al ratio on CO ₂ capture by temperature swing adsorption. <i>Journal of CO₂ Utilization</i> , 2017, 21, 261-269.	3.3	16
31	Pharmaceutical Removal from Water Effluents by Adsorption on Activated Carbons: A Monte Carlo Simulation Study. <i>Langmuir</i> , 2017, 33, 11146-11155.	1.6	36
32	Pharmaceuticals removal from water effluents by adsorption in activated carbons using Monte Carlo simulations. <i>Computer Aided Chemical Engineering</i> , 2017, 40, 2695-2700.	0.3	11
33	Comparative Study of MOFs and Zeolites For CO ₂ Capture and Separation at Process Conditions. , 2016, , .		3
34	Systematic evaluation of materials for post-combustion CO ₂ capture in a Temperature Swing Adsorption process. <i>Chemical Engineering Journal</i> , 2016, 284, 438-447.	6.6	118
35	Synergetic Effect of Physicochemical and Electrostatic Strategies on Ion Sieving for Polymer Cross-linked Graphene Oxide Membrane. <i>Environmental Science: Nano</i> , 0, , .	2.2	2
36	Design of Novel Hybrid Adsorption Processes for CO ₂ Capture Using an Integrated Multi-Scale Modelling. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0

#	ARTICLE	IF	CITATIONS
37	Thermodynamic and Process Modeling of Deep Eutectic Solvents for CO ₂ Capture and Separation at Industrial Condition. SSRN Electronic Journal, 0, , .	0.4	0
38	Molecular Design of Novel Carbon-Based Materials for CO ₂ Capture by Swing Adsorption Processes. SSRN Electronic Journal, 0, , .	0.4	0
39	Design and Optimization of Processes with Novel Adsorbent Materials for Co ₂ Capture by a Combined Molecular Simulations-Experimental Approach. SSRN Electronic Journal, 0, , .	0.4	0
40	Robust Thermodynamic Models to Describe the Physicochemical Behaviour of Deep Eutectic Solvents for Gas Separation. , 0, , .		0