

Santiago Builes

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

737
citations

471509

17
h-index

752698

20
g-index

21
all docs

21
docs citations

21
times ranked

961
citing authors

#	ARTICLE	IF	CITATIONS
1	Isosteric Heats of Gas and Liquid Adsorption. <i>Langmuir</i> , 2013, 29, 10416-10422.	3.5	100
2	A Semiempirical Method to Detect and Correct DFT-Based Gas-Phase Errors and Its Application in Electrocatalysis. <i>ACS Catalysis</i> , 2020, 10, 6900-6907.	11.2	71
3	A brief review of the computational modeling of CO ₂ electroreduction on Cu electrodes. <i>Current Opinion in Electrochemistry</i> , 2018, 9, 158-165.	4.8	64
4	Microporous carbon adsorbents with high CO ₂ capacities for industrial applications. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 16063.	2.8	53
5	Substantial improvement of electrocatalytic predictions by systematic assessment of solvent effects on adsorption energies. <i>Applied Catalysis B: Environmental</i> , 2020, 276, 119147.	20.2	53
6	Effect of Immobilized Amines on the Sorption Properties of Solid Materials: Impregnation versus Grafting. <i>Langmuir</i> , 2013, 29, 199-206.	3.5	44
7	Optimization of the separation of sulfur hexafluoride and nitrogen by selective adsorption using monte carlo simulations. <i>AIChE Journal</i> , 2011, 57, 962-974.	3.6	42
8	Understanding CO ₂ Capture in Amine-Functionalized MCM-41 by Molecular Simulation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 3017-3024.	3.1	40
9	Adsorption of Cadmium Using Biochars Produced from Agro-Residues. <i>Journal of Physical Chemistry C</i> , 2020, 124, 14592-14602.	3.1	37
10	Analysis of CO ₂ Adsorption in Amine-Functionalized Porous Silicas by Molecular Simulations. <i>Energy & Fuels</i> , 2015, 29, 3855-3862.	5.1	36
11	How symmetry factors cause potential- and facet-dependent pathway shifts during CO ₂ reduction to CH ₄ on Cu electrodes. <i>Applied Catalysis B: Environmental</i> , 2021, 285, 119776.	20.2	28
12	Alkylsilane-Functionalized Microporous and Mesoporous Materials: Molecular Simulation and Experimental Analysis of Gas Adsorption. <i>Journal of Physical Chemistry C</i> , 2012, 116, 10150-10161.	3.1	25
13	Understanding the Performance of New Amine-Functionalized Mesoporous Silica Materials for CO ₂ Adsorption. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 15611-15619.	3.7	25
14	Hybrid aminopolymer-silica materials for efficient CO ₂ adsorption. <i>RSC Advances</i> , 2015, 5, 104943-104953.	3.6	22
15	Fast Correction of Errors in the DFT-Calculated Energies of Gaseous Nitrogen-Containing Species. <i>ChemCatChem</i> , 2021, 13, 2508-2516.	3.7	21
16	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, .	2.3	20
17	Impact of Intrinsic Density Functional Theory Errors on the Predictive Power of Nitrogen Cycle Electrocatalysis Models. <i>ACS Catalysis</i> , 2022, 12, 4784-4791.	11.2	20
18	Influence of Van der Waals Interactions on the Solvation Energies of Adsorbates at Pt-Based Electrocatalysts. <i>ChemPhysChem</i> , 2019, 20, 2968-2972.	2.1	16

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19	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.	3.6	16
20	Predictions of fluidities of amines by molecular simulations: TraPPE-EH vs. OPLS-AA. <i>Fluid Phase Equilibria</i> , 2018, 464, 40-46.	2.5	4
21	Resistance to Grinding and Cement Paste Performance of Blends of Clinker, Limestone and Gypsum. <i>Journal of the Institution of Engineers (India): Series A</i> , 2021, 102, 535-543.	1.2	0