

Marco Balsamo

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,389
citations

257101

24
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344852

36
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51
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51
docs citations

51
times ranked

1339
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical Analysis of VPSA Technology Retrofitted to Steam Reforming Hydrogen Plants to Capture CO ₂ and Produce Blue H ₂ . <i>Energies</i> , 2022, 15, 1091.	1.6	7
2	Fractal-like random pore model applied to CO ₂ capture by CaO sorbent. <i>Chemical Engineering Science</i> , 2022, 254, 117649.	1.9	2
3	Experimental and Modeling Studies of Sr ²⁺ and Cs ⁺ Sorption on Cryogels and Comparison to Commercial Adsorbents. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 8204-8219.	1.8	8
4	Advanced interpretation of CO ₂ adsorption thermodynamics onto porous solids by statistical physics formalism. <i>Chemical Engineering Journal</i> , 2021, 406, 126669.	6.6	28
5	Theoretical evaluation of the antioxidant activity of some stilbenes using the Density Functional Theory. <i>Journal of Molecular Structure</i> , 2021, 1229, 129496.	1.8	4
6	Numerical study of sorption-enhanced methane steam reforming over Ni/Al ₂ O ₃ catalyst in a fixed-bed reactor. <i>International Journal of Heat and Mass Transfer</i> , 2021, 165, 120635.	2.5	17
7	Clorazepate removal from aqueous solution by adsorption onto maghnite: Experimental and theoretical analysis. <i>Journal of Molecular Liquids</i> , 2021, 328, 115430.	2.3	8
8	Surface adsorption of Crizotinib on carbon and boron nitride nanotubes as Anti-Cancer drug Carriers: COSMO-RS and DFT molecular insights. <i>Journal of Molecular Liquids</i> , 2021, 338, 116666.	2.3	37
9	Synthesis and characterization of Layered Double Hydroxides aimed at encapsulation of sodium diclofenac: Theoretical and experimental study. <i>Journal of Molecular Liquids</i> , 2021, 338, 116677.	2.3	6
10	Biogas upgrading by adsorption onto activated carbon and carbon molecular sieves: Experimental and modelling study in binary CO ₂ /CH ₄ mixture. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106256.	3.3	29
11	Microchannel zeolite 13X adsorbent with high CO ₂ separation performance. <i>Separation and Purification Technology</i> , 2021, 277, 119483.	3.9	13
12	Role of H ₂ O and O ₂ during the reactive adsorption of H ₂ S on CuO-ZnO/activated carbon at low temperature. <i>Microporous and Mesoporous Materials</i> , 2020, 295, 109949.	2.2	24
13	Computational and experimental studies on the efficiency of Rosmarinus officinalis polyphenols as green corrosion inhibitors for XC48 steel in acidic medium. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 606, 125458.	2.3	51
14	Liquid-Solid Mass Transfer in Adsorption Systems: An Overlooked Resistance?. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 22007-22016.	1.8	44
15	Quantitative structure properties relationship for deep eutectic solvents using S _{if} -profile as molecular descriptors. <i>Journal of Molecular Liquids</i> , 2020, 309, 113165.	2.3	40
16	Molecular insights through computational modeling of methylene blue adsorption onto low-cost adsorbents derived from natural materials: A multi-model's approach. <i>Computers and Chemical Engineering</i> , 2020, 140, 106965.	2.0	48
17	A Fractal-Based Correlation for Time-Dependent Surface Diffusivity in Porous Adsorbents. <i>Processes</i> , 2020, 8, 689.	1.3	4
18	Kinetic and thermodynamic study of n-pentane adsorption on activated carbons modified by either carbonization or impregnation with ammonium hydroxide. <i>Microporous and Mesoporous Materials</i> , 2020, 302, 110196.	2.2	13

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19	Oligoamine ionic liquids supported on mesoporous microspheres for CO ₂ separation with good sorption kinetics and low cost. <i>Journal of CO₂ Utilization</i> , 2020, 39, 101186.	3.3	6
20	Mechanisms of Methylparaben Adsorption onto Activated Carbons: Removal Tests Supported by a Calorimetric Study of the Adsorbent-Adsorbate Interactions. <i>Molecules</i> , 2019, 24, 413.	1.7	35
21	A quantitative prediction of the viscosity of amine based DESs using S _{if} -profile molecular descriptors. <i>Journal of Molecular Structure</i> , 2019, 1184, 357-363.	1.8	47
22	Liquid-solid adsorption processes interpreted by fractal-like kinetic models. <i>Environmental Chemistry Letters</i> , 2019, 17, 1067-1075.	8.3	13
23	Post-combustion CO ₂ capture: On the potentiality of amino acid ionic liquid as modifying agent of mesoporous solids. <i>Fuel</i> , 2018, 218, 155-161.	3.4	44
24	Utilization of alumina-supported K ₂ CO ₃ as CO ₂ -selective sorbent: A promising strategy to mitigate the carbon footprint of the maritime sector. <i>Journal of CO₂ Utilization</i> , 2018, 24, 139-148.	3.3	14
25	Process analysis of a novel humidification-dehumidification-adsorption (HDHA) desalination method. <i>Desalination</i> , 2018, 429, 155-166.	4.0	43
26	Synergic effect of Zn and Cu oxides dispersed on activated carbon during reactive adsorption of H ₂ S at room temperature. <i>Microporous and Mesoporous Materials</i> , 2018, 257, 135-146.	2.2	78
27	On the performance of continuous stirred tank reactor and plug flow reactor for chemical reactions characterised by non-elementary kinetics. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2018, 125, 449-469.	0.8	0
28	Highlighting the effect of the support during H ₂ S adsorption at low temperature over composite Zn-Cu sorbents. <i>Fuel</i> , 2018, 221, 374-379.	3.4	24
29	Modelling CO ₂ adsorption dynamics onto amine-functionalised sorbents: A fractal-like kinetic perspective. <i>Chemical Engineering Science</i> , 2018, 192, 603-612.	1.9	10
30	Fractal-Like Kinetic Models for Fluid-Solid Adsorption. <i>Environmental Chemistry for A Sustainable World</i> , 2018, , 135-161.	0.3	1
31	CHEMICAL DEMULSIFICATION OF MODEL WATER-IN-OIL EMULSIONS WITH LOW WATER CONTENT BY MEANS OF IONIC LIQUIDS. <i>Brazilian Journal of Chemical Engineering</i> , 2017, 34, 273-282.	0.7	35
32	Synergic Effect of Mixed ZnO and CuO Nanoparticles Supported on Activated Carbon for H ₂ S Adsorption at Room Temperature. <i>Advanced Science Letters</i> , 2017, 23, 5879-5882.	0.2	4
33	ZnO-CuO supported on activated carbon for H ₂ S removal at room temperature. <i>Chemical Engineering Journal</i> , 2016, 304, 399-407.	6.6	109
34	A single particle model of lime sulphation with a fractal formulation of product layer diffusion. <i>Chemical Engineering Science</i> , 2016, 156, 115-120.	1.9	17
35	Synthesis of Activated Carbons by Thermal Treatments of Agricultural Wastes for CO ₂ Capture from Flue Gas. <i>Combustion Science and Technology</i> , 2016, 188, 581-593.	1.2	7
36	Equilibrium and Dynamic CO ₂ Adsorption on Activated Carbon Honeycomb Monoliths. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 7898-7905.	1.8	21

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37	Dynamic studies on carbon dioxide capture using lignocellulosic based activated carbons. Adsorption, 2015, 21, 633-643.	1.4	10
38	Post-combustion CO ₂ adsorption on activated carbons with different textural properties. Microporous and Mesoporous Materials, 2015, 209, 157-164.	2.2	54
39	Carbon-supported ionic liquids as innovative adsorbents for CO ₂ separation from synthetic flue-gas. Journal of Colloid and Interface Science, 2015, 448, 41-50.	5.0	62
40	Fractal-like Vermeulen Kinetic Equation for the Description of Diffusion-Controlled Adsorption Dynamics. Journal of Physical Chemistry C, 2015, 119, 8781-8785.	1.5	34
41	Deeper insights into fractal concepts applied to liquid-phase adsorption dynamics. Fuel Processing Technology, 2014, 128, 412-416.	3.7	19
42	Assessment of CO ₂ Adsorption Capacity on Activated Carbons by a Combination of Batch and Dynamic Tests. Langmuir, 2014, 30, 5840-5848.	1.6	40
43	CO ₂ adsorption onto synthetic activated carbon: Kinetic, thermodynamic and regeneration studies. Separation and Purification Technology, 2013, 116, 214-221.	3.9	106
44	Gasification of coal combustion ash for its reuse as adsorbent. Fuel, 2013, 106, 147-151.	3.4	16
45	Highlighting the Role of Activated Carbon Particle Size on CO ₂ Capture from Model Flue Gas. Industrial & Engineering Chemistry Research, 2013, 52, 12183-12191.	1.8	30
46	Reuse of Coal Combustion Ash as Sorbent: The Effect of Gasification Treatments. Combustion Science and Technology, 2012, 184, 956-965.	1.2	8
47	Steam- and carbon dioxide-gasification of coal combustion ash for liquid phase cadmium removal by adsorption. Chemical Engineering Journal, 2012, 207-208, 66-71.	6.6	26
48	Cadmium adsorption by coal combustion ashes-based sorbents—Relationship between sorbent properties and adsorption capacity. Journal of Hazardous Materials, 2011, 187, 371-378.	6.5	49
49	Arsenate removal from synthetic wastewater by adsorption onto fly ash. Desalination, 2010, 263, 58-63.	4.0	40
50	Coal combustion ash sorbents for Cd and Zn capture in single-compound and binary systems. , 0, 127, 41-49.		2