ZoltÃ¡n Bacsik

List of Publications by Year
in descending order

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45 papers	2,518 citations	257450 24 h-index	223800 46 g-index
50 all docs	50 docs citations	50 times ranked	3537 citing authors

#	Article	IF	Citations
1	Protoâ€Calcite and Protoâ€Vaterite in Amorphous Calcium Carbonates. Angewandte Chemie - International Edition, 2010, 49, 8889-8891.	13.8	284
2	Evidence for selective bacterial community structuring on microplastics. Environmental Microbiology, 2018, 20, 2796-2808.	3.8	261
3	Mechanisms and Kinetics for Sorption of CO₂ on Bicontinuous Mesoporous Silica Modified with n-Propylamine. Langmuir, 2011, 27, 11118-11128.	3.5	260
4	Carbon Dioxide Capture on Amineâ€Rich Carbonaceous Materials Derived from Glucose. ChemSusChem, 2010, 3, 840-845.	6.8	170
5	Temperature-Induced Uptake of CO₂ and Formation of Carbamates in Mesocaged Silica Modified with n-Propylamines. Langmuir, 2010, 26, 10013-10024.	3.5	155
6	NaKA sorbents with high CO2-over-N2 selectivity and high capacity to adsorb CO2. Chemical Communications, 2010, 46, 4502.	4.1	145
7	Adsorption kinetics for CO2 on highly selective zeolites NaKA and nano-NaKA. Applied Energy, 2013, 112, 1326-1336.	10.1	110
8	Selective separation of CO2 and CH4 for biogas upgrading on zeolite NaKA and SAPO-56. Applied Energy, 2016, 162, 613-621.	10.1	102
9	FTIR Spectroscopy of the Atmosphere. I. Principles and Methods. Applied Spectroscopy Reviews, 2004, 39, 295-363.	6.7	86
10	Quantification of chemisorption and physisorption of carbon dioxide on porous silica modified by propylamines: Effect of amine density. Microporous and Mesoporous Materials, 2012, 159, 42-49.	4.4	75
11	Silicoaluminophosphates as CO2 sorbents. Microporous and Mesoporous Materials, 2012, 156, 90-96.	4.4	71
12	Adsorption of CO₂ on a micro-/mesoporous polyimine modified with tris(2-aminoethyl)amine. Journal of Materials Chemistry A, 2015, 3, 16229-16234.	10.3	65
13	FTIR Spectroscopy of the Atmosphere Part 2. Applications. Applied Spectroscopy Reviews, 2005, 40, 327-390.	6.7	58
14	Enantioselective Heterogeneous Synergistic Catalysis for Asymmetric Cascade Transformations. Advanced Synthesis and Catalysis, 2014, 356, 2485-2492.	4.3	49
15	Construction of Mesoporous Frameworks with Vanadoborate Clusters. Angewandte Chemie - International Edition, 2014, 53, 3608-3611.	13.8	46
16	Adsorption of Water and Butanol in Silicalite-1 Film Studied with in Situ Attenuated Total Reflectanceâ€“Fourier Transform Infrared Spectroscopy. Langmuir, 2015, 31, 4887-4894.	3.5	37
17	Spherical and Porous Particles of Calcium Carbonate Synthesized with Food Friendly Polymer Additives. Crystal Growth and Design, 2015, 15, 3609-3616.	3.0	35
18	Nature of Chemisorbed CO₂ in Zeolite A. Journal of Physical Chemistry C, 2019, 123, 21497-21503.	3.1	34

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19	Contrasting In Vitro Apatite Growth from Bioactive Glass Surfaces with that of Spontaneous Precipitation. Materials, 2018, 11, 1690.	2.9	28
20	Self-Assembly Mechanism of Folate-Templated Mesoporous Silica. Langmuir, 2013, 29, 12003-12012.	3.5	27
21	An Isoreticular Family of Microporous Metalâ€“Organic Frameworks Based on Zinc and 2â€Substituted Imidazolateâ€4â€amideâ€5â€imidate: Syntheses, Structures and Properties. Chemistry - A European Journal, 2012, 18, 11630-11640.	3.3	26
22	K⁺ Exchanged Zeolite ZK-4 as a Highly Selective Sorbent for CO₂. Langmuir, 2014, 30, 9682-9690.	3.5	26
23	Effects of carbon dioxide captured from ambient air on the infrared spectra of supported amines. Vibrational Spectroscopy, 2016, 87, 215-221.	2.2	24
24	Adsorption of Butanol and Water Vapors in Silicalite-1 Films with a Low Defect Density. Langmuir, 2016, 32, 11789-11798.	3.5	24
25	Perspectives on the adsorption of CO2 on amine-modified silica studied by infrared spectroscopy. Current Opinion in Green and Sustainable Chemistry, 2019, 16, 13-19.	5.9	23
26	Highly selective uptake of carbon dioxide on the zeolite |Na_{10.2}KCs_{0.8}|-LTA â€“ a possible sorbent for biogas upgrading. Physical Chemistry Chemical Physics, 2016, 18, 16080-16083.	2.8	22
27	Selective Adsorption of CO₂ on Zeolites NaK-ZK-4 with Si/Al of 1.8â€“2.8. ACS Omega, 2020, 5, 25371-25380.	3.5	21
28	Comparison of Open Path and Extractive Longâ€Path FTIR Techniques in Detection of Air Pollutants. Applied Spectroscopy Reviews, 2006, 41, 77-97.	6.7	19
29	Heterogenized Wilkinsonâ€Type Catalyst for Transfer Hydrogenation of Carbonyl Compounds. European Journal of Organic Chemistry, 2011, 2011, 4409-4414.	2.4	17
30	Site-Specific Adsorption of CO2 in Zeolite NaK-A. Journal of Physical Chemistry C, 2018, 122, 27005-27015.	3.1	17
31	Functionalization and patterning of nanocellulose films by surface-bound nanoparticles of hydrolyzable tannins and multivalent metal ions. Nanoscale, 2019, 11, 19278-19284.	5.6	17
32	Determining the Genetic Regulation and Coordination of Lignification in Stem Tissues of Arabidopsis Using Semiquantitative Raman Microspectroscopy. ACS Sustainable Chemistry and Engineering, 2020, 8, 4900-4909.	6.7	16
33	Boosting the thermal stability of emulsion-templated polymers via sulfonation: an efficient synthetic route to hierarchically porous carbon foams. ChemistrySelect, 2016, 1, 784-792.	1.5	14
34	On the role of tannins and iron in the Bogolan or mud cloth dyeing process. Textile Reseach Journal, 2012, 82, 1888-1896.	2.2	11
35	Structural variations in mesoporous materials with cubic Pmn symmetry. Microporous and Mesoporous Materials, 2010, 133, 27-35.	4.4	7
36	CO 2 selective NaMg-CTS-1 and its structural formation from the titanium silicate based molecule sieve NaMg-ETS-4. Microporous and Mesoporous Materials, 2014, 198, 63-73.	4.4	7

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37	Core-Shell and Hollow Particles of Carbon and SiC Prepared from Hydrochar. Materials, 2019, 12, 1835.	2.9	6
38	Determination of Carbon Monoxide Concentration and Total Pressure in Gas Cavities in the Silica Glass Body of Light Bulbs by FT-IR Spectrometry. Analytical Chemistry, 2006, 78, 2382-2387.	6.5	5
39	Adsorption of Carbonyl Sulfide on Propylamine Tethered to Porous Silica. Langmuir, 2018, 34, 7708-7713.	3.5	4
40	Ammonium-Carbamate-Rich Organogels for the Preparation of Amorphous Calcium Carbonates. Minerals (Basel, Switzerland), 2017, 7, 110.	2.0	3
41	Phase Transformation Behavior of a Twoâ€Dimensional Zeolite. Angewandte Chemie - International Edition, 2019, 58, 10230-10235.	13.8	3
42	Phase Transformation Behavior of a Twoâ€Dimensional Zeolite. Angewandte Chemie, 2019, 131, 10336-10341.	2.0	1
43	Synthesis of SAPO-56 using N,N,Nâ€™,Nâ€™-tetramethyl-1,6-hexanediamine and co-templates based on primary, secondary, and tertiary amines. Inorganica Chimica Acta, 2021, 525, 120443.	2.4	1
44	Indirect Determination of Molecular Chlorine by Fourier Transform Infrared Spectrometry. Applied Spectroscopy, 2008, 62, 339-341.	2.2	0
45	Selective Adsorption of CO on Zeolites NaK-ZK-4 with Si/Al of 1.8-2.8. ACS Omega, 2020, 5, 25371-25380.	3.5	0