

Zoltn Bacsik

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

2,518
citations

257450

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223800

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50
docs citations

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times ranked

3537
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#	ARTICLE	IF	CITATIONS
1	Synthesis of SAPO-56 using N,N,N TM ,N TM -tetramethyl-1,6-hexanediamine and co-templates based on primary, secondary, and tertiary amines. <i>Inorganica Chimica Acta</i> , 2021, 525, 120443.	2.4	1
2	Determining the Genetic Regulation and Coordination of Lignification in Stem Tissues of <i>Arabidopsis</i> Using Semiquantitative Raman Microspectroscopy. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 4900-4909.	6.7	16
3	Selective Adsorption of CO on Zeolites NaK-ZK-4 with Si/Al of 1.8-2.8. <i>ACS Omega</i> , 2020, 5, 25371-25380.	3.5	0
4	Selective Adsorption of CO ₂ on Zeolites NaK-ZK-4 with Si/Al of 1.8~2.8. <i>ACS Omega</i> , 2020, 5, 25371-25380.	3.5	21
5	Nature of Chemisorbed CO ₂ in Zeolite A. <i>Journal of Physical Chemistry C</i> , 2019, 123, 21497-21503.	3.1	34
6	Functionalization and patterning of nanocellulose films by surface-bound nanoparticles of hydrolyzable tannins and multivalent metal ions. <i>Nanoscale</i> , 2019, 11, 19278-19284.	5.6	17
7	Phase Transformation Behavior of a Two-Dimensional Zeolite. <i>Angewandte Chemie</i> , 2019, 131, 10336-10341.	2.0	1
8	Core-Shell and Hollow Particles of Carbon and SiC Prepared from Hydrochar. <i>Materials</i> , 2019, 12, 1835.	2.9	6
9	Phase Transformation Behavior of a Two-Dimensional Zeolite. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10230-10235.	13.8	3
10	Perspectives on the adsorption of CO ₂ on amine-modified silica studied by infrared spectroscopy. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2019, 16, 13-19.	5.9	23
11	Evidence for selective bacterial community structuring on microplastics. <i>Environmental Microbiology</i> , 2018, 20, 2796-2808.	3.8	261
12	Site-Specific Adsorption of CO ₂ in Zeolite NaK-A. <i>Journal of Physical Chemistry C</i> , 2018, 122, 27005-27015.	3.1	17
13	Contrasting In Vitro Apatite Growth from Bioactive Glass Surfaces with that of Spontaneous Precipitation. <i>Materials</i> , 2018, 11, 1690.	2.9	28
14	Adsorption of Carbonyl Sulfide on Propylamine Tethered to Porous Silica. <i>Langmuir</i> , 2018, 34, 7708-7713.	3.5	4
15	Ammonium-Carbamate-Rich Organogels for the Preparation of Amorphous Calcium Carbonates. <i>Minerals (Basel, Switzerland)</i> , 2017, 7, 110.	2.0	3
16	Boosting the thermal stability of emulsion-templated polymers via sulfonation: an efficient synthetic route to hierarchically porous carbon foams. <i>ChemistrySelect</i> , 2016, 1, 784-792.	1.5	14
17	Effects of carbon dioxide captured from ambient air on the infrared spectra of supported amines. <i>Vibrational Spectroscopy</i> , 2016, 87, 215-221.	2.2	24
18	Adsorption of Butanol and Water Vapors in Silicalite-1 Films with a Low Defect Density. <i>Langmuir</i> , 2016, 32, 11789-11798.	3.5	24

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19	Highly selective uptake of carbon dioxide on the zeolite Na ₂ 10.2</sub>KCs_{0.8} -LTA “ a possible sorbent for biogas upgrading. Physical Chemistry Chemical Physics, 2016, 18, 16080-16083.	2.8	22
20	Selective separation of CO ₂ and CH ₄ for biogas upgrading on zeolite NaKA and SAPO-56. Applied Energy, 2016, 162, 613-621.	10.1	102
21	Adsorption of CO ₂ on a micro-/mesoporous polyimine modified with tris(2-aminoethyl)amine. Journal of Materials Chemistry A, 2015, 3, 16229-16234.	10.3	65
22	Spherical and Porous Particles of Calcium Carbonate Synthesized with Food Friendly Polymer Additives. Crystal Growth and Design, 2015, 15, 3609-3616.	3.0	35
23	Adsorption of Water and Butanol in Silicalite-1 Film Studied with <i>in Situ</i> Attenuated Total Reflectance “Fourier Transform Infrared Spectroscopy. Langmuir, 2015, 31, 4887-4894.	3.5	37
24	Construction of Mesoporous Frameworks with Vanadoborate Clusters. Angewandte Chemie - International Edition, 2014, 53, 3608-3611.	13.8	46
25	K ⁺ Exchanged Zeolite ZK-4 as a Highly Selective Sorbent for CO ₂ . Langmuir, 2014, 30, 9682-9690.	3.5	26
26	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
27	Enantioselective Heterogeneous Synergistic Catalysis for Asymmetric Cascade Transformations. Advanced Synthesis and Catalysis, 2014, 356, 2485-2492.	4.3	49
28	Adsorption kinetics for CO ₂ on highly selective zeolites NaKA and nano-NaKA. Applied Energy, 2013, 112, 1326-1336.	10.1	110
29	Self-Assembly Mechanism of Folate-Templated Mesoporous Silica. Langmuir, 2013, 29, 12003-12012.	3.5	27
30	On the role of tannins and iron in the Bogolan or mud cloth dyeing process. Textile Research Journal, 2012, 82, 1888-1896.	2.2	11
31	An Isorecticular Family of Microporous Metal “Organic Frameworks Based on Zinc and 2-Substituted Imidazolate “amide “imidate: Syntheses, Structures and Properties. Chemistry - A European Journal, 2012, 18, 11630-11640.	3.3	26
32	Silicoaluminophosphates as CO ₂ sorbents. Microporous and Mesoporous Materials, 2012, 156, 90-96.	4.4	71
33	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
34	Mechanisms and Kinetics for Sorption of CO ₂ on Bicontinuous Mesoporous Silica Modified with <i>n</i> -Propylamine. Langmuir, 2011, 27, 11118-11128.	3.5	260
35	Heterogenized Wilkinson “Type Catalyst for Transfer Hydrogenation of Carbonyl Compounds. European Journal of Organic Chemistry, 2011, 2011, 4409-4414.	2.4	17
36	Carbon Dioxide Capture on Amine “Rich Carbonaceous Materials Derived from Glucose. ChemSusChem, 2010, 3, 840-845.	6.8	170

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37	Protoá€Calcite and Protoá€Vaterite in Amorphous Calcium Carbonates. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8889-8891.	13.8	284
38	Structural variations in mesoporous materials with cubic Pm $\bar{3}$ m symmetry. <i>Microporous and Mesoporous Materials</i> , 2010, 133, 27-35.	4.4	7
39	Temperature-Induced Uptake of CO ₂ and Formation of Carbamates in Mesocaged Silica Modified with <i>n</i> -Propylamines. <i>Langmuir</i> , 2010, 26, 10013-10024.	3.5	155
40	NaKA sorbents with high CO ₂ -over-N ₂ selectivity and high capacity to adsorb CO ₂ . <i>Chemical Communications</i> , 2010, 46, 4502.	4.1	145
41	Indirect Determination of Molecular Chlorine by Fourier Transform Infrared Spectrometry. <i>Applied Spectroscopy</i> , 2008, 62, 339-341.	2.2	0
42	Comparison of Open Path and Extractive Long-Path FTIR Techniques in Detection of Air Pollutants. <i>Applied Spectroscopy Reviews</i> , 2006, 41, 77-97.	6.7	19
43	Determination of Carbon Monoxide Concentration and Total Pressure in Gas Cavities in the Silica Glass Body of Light Bulbs by FT-IR Spectrometry. <i>Analytical Chemistry</i> , 2006, 78, 2382-2387.	6.5	5
44	FTIR Spectroscopy of the Atmosphere Part 2. Applications. <i>Applied Spectroscopy Reviews</i> , 2005, 40, 327-390.	6.7	58
45	FTIR Spectroscopy of the Atmosphere. I. Principles and Methods. <i>Applied Spectroscopy Reviews</i> , 2004, 39, 295-363.	6.7	86