Boris SubotiÄ

List of Publications by Year in descending order

59 papers	1,786 citations	218677 26 h-index	276875 41 g-index
59 all docs	59 docs citations	59 times ranked	1700 citing authors

#	Article	IF	Citations
1	Natural zeolite clinoptilolite: new adjuvant in anticancer therapy. Journal of Molecular Medicine, 2001, 78, 708-720.	3.9	196
2	Dissolution of high-silica zeolites in alkaline solutions II. Dissolution of â€˜activatedâ€™ silicalite-1 and ZSM-5 with different aluminum content. Microporous Materials, 1997, 8, 159-169.	1.6	106
3	Unusual Pathway of Crystallization of Zeolite ZSM-5 in a Heterogeneous System: Phenomenology and Starting Considerations. Chemistry of Materials, 2012, 24, 1726-1737.	6.7	97
4	Dissolution of high-silica zeolites in alkaline solutions I. Dissolution of silicalite-1 and ZSM-5 with different aluminum content. Microporous Materials, 1995, 4, 159-168.	1.6	87
5	Controllable and SDA-free synthesis of sub-micrometer sized zeolite ZSM-5. Part 1: Influence of alkalinity on the structural, particulate and chemical properties of the products. Microporous and Mesoporous Materials, 2011, 139, 197-206.	4.4	69
6	Kinetic analysis of the exchange processes between sodium ions from zeolite A and cadmium, copper and nickel ions from solutions. Separation and Purification Technology, 2004, 37, 17-31.	7.9	68
7	Influence of cations on the physicochemical and structural properties of aluminosilicate gel precursors. Part 1. Chemical and thermal properties. Zeolites, 1991, 11, 767-775.	0.5	62
8	Kinetic study of the transformation of zeolite A into zeolite P. Zeolites, 1982, 2, 135-142.	0.5	60
9	Mechanochemistry of zeolites: Part 1. Amorphization of zeolites A and X and synthetic mordenite by ball milling. Zeolites, 1993, 13, 261-268.	0.5	57
10	Thermally induced phase transformations in cation-exchanged zeolites 4A, 13X and synthetic mordenite and their amorphous derivatives obtained by mechanochemical treatment. Thermochimica Acta, 1998, 317, 25-37.	2.7	55
11	Removal of Heavy Metal Ions from Solutions Using Zeolites. III. Influence of Sodium Ion Concentration in the Liquid Phase on the Kinetics of Exchange Processes Between Cadmium Ions from Solution and Sodium Ions from Zeolite A. Separation Science and Technology, 2005, 39, 925-940.	2.5	52
12	Mechanochemistry of zeolites: Part 3. Amorphization of zeolite ZSM-5 by ball milling. Zeolites, 1995, 15, 51-57.	0.5	45
13	Controllable and SDA-free synthesis of sub-micrometer sized zeolite ZSM-5. Part 2: Influence of sodium ions and ageing of the reaction mixture on the chemical composition, crystallinity and particulate properties of the products. Microporous and Mesoporous Materials, 2012, 147, 229-241.	4.4	45
14	Chemically controlled particulate properties of zeolites: Towards the face-less particles of zeolite A. 2. Influence of aluminosilicate batch concentration and alkalinity of the reaction mixture (hydrogel) on the size and shape of zeolite A crystals. Microporous and Mesoporous Materials, 2011, 142, 389-397.	4.4	38
15	Mechanochemistry of zeolites: Part 2. Change in particulate properties of zeolites during ball milling. Zeolites, 1995, 15, 247-252.	0.5	37
16	Study of the microstructure of amorphous aluminosilicate gel before and after its hydrothermal treatment. Microporous and Mesoporous Materials, 2008, 110, 177-185.	4.4	36
17	Dissolution of amorphous aluminosilicate zeolite precursors in alkaline solutions. Part 1.â€”Kinetics of the dissolution. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 1817-1822.	1.7	34
18	Kinetics of zeolite dissolution. Part 2. Dissolution of zeolite X in hot sodium hydroxide solutions. Zeolites, 1991, 11, 810-815.	0.5	32

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19	Influence of anions on the kinetics of zeolite A crystallization:. Journal of Crystal Growth, 2004, 267, 270-282.	1.5	31
20	Influence of alkalinity of the starting system on size and morphology of the zeolite A crystals. Materials Chemistry and Physics, 2012, 132, 973-976.	4.0	30
21	Mechanochemistry of zeolites. Part 4: Influence of cations on the rate of amorphization of zeolite A by ball milling. Zeolites, 1995, 15, 632-636.	0.5	29
22	Study of the mechanism of formation of nano-crystalline zeolite X in heterogeneous system. Microporous and Mesoporous Materials, 2011, 142, 139-146.	4.4	29
23	Chemically controlled particulate properties of zeolites: Towards the face-less particles of zeolite A. Part 1. Influence of the batch molar ratio [SiO2/Al2O3] on the size and shape of zeolite A crystals. Microporous and Mesoporous Materials, 2011, 137, 72-82.	4.4	29
24	Role of Subcolloidal (Nanosized) Precursor Species in the Early Stage of the Crystallization of Zeolites in Heterogeneous Systems. Langmuir, 2014, 30, 8570-8579.	3.5	29
25	New insights on the autocatalytic nucleation in zeolite A synthesis. CrystEngComm, 2011, 13, 1215-1220.	2.6	28
26	Seed-Induced, Structure Directing Agent-Free Crystallization of Sub-Micrometer Zeolite ZSM-5: A Population Balance Analysis. Crystal Growth and Design, 2012, 12, 1736-1745.	3.0	26
27	Crystallization of tetragonal (B8) and cubic (B1) modifications of zeolite NaP from freshly prepared gel: Part 2. Kinetics of crystallization. Zeolites, 1990, 10, 634-641.	0.5	25
28	Results of thermal and hydrothermal treatment of the aluminosilicate gels prepared at different batch concentrations. Thermochimica Acta, 1998, 317, 73-84.	2.7	25
29	A contribution to understanding the mechanism of crystallization of silicalite-1 in heterogeneous systems (hydrogels). Microporous and Mesoporous Materials, 2009, 123, 150-159.	4.4	25
30	Crystallization of tetragonal (B8) and cubic (B1) modifications of zeolite NaP from freshly prepared gel. Part 1. Mechanism of the crystallization. Zeolites, 1989, 9, 45-53.	0.5	24
31	Removal of Heavy Metal Ions from Solutions by Means of Zeolites. I. Thermodynamics of the Exchange Processes between Cadmium Ions from Solution and Sodium Ions from Zeolite A. Separation Science and Technology, 1998, 33, 449-466.	2.5	22
32	Mechanism and kinetics of the growth of zeolite microcrystals. Part 2: Influence of sodium ions concentration in the liquid phase on the growth kinetics of zeolite A microcrystals. Microporous and Mesoporous Materials, 2004, 76, 157-165.	4.4	22
33	Thermal analysis of cation-exchanged zeolites before and after their amorphization by ball milling. Thermochimica Acta, 1996, 276, 91-103.	2.7	20
34	Experimental evidence of the â€œmemoryâ€•effect of amorphous aluminosilicate gel precursors. Microporous and Mesoporous Materials, 2003, 64, 21-32.	4.4	20
35	Influence of the freeze-drying of hydrogel on the critical processes occurring during crystallization of zeolite A â€“ A new evidence of the gel â€œmemoryâ€•effect. Microporous and Mesoporous Materials, 2007, 105, 65-74.	4.4	20
36	Removal of Heavyâ€“Metal Ions from Solutions by Means of Zeolites. II. Thermodynamics of the Exchange Processes Between Zinc and Lead Ions from Solutions and Sodium Ions from Zeolite A. Separation Science and Technology, 2000, 35, 2311-2326.	2.5	17

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37	Investigation of the influence of seeding on the crystallization of zeolite A in the membrane-type reactor. Microporous and Mesoporous Materials, 1999, 28, 73-82.	4.4	16
38	Dissolution of amorphous aluminosilicate zeolite precursors in alkaline solutions. Part 3.â€"Influence of temperature on the dissolution process. Journal of the Chemical Society, Faraday Transactions, 1994, 90, 3725-3728.	1.7	15
39	Mechanism of crystallization of zeolite A microcrystals from initially clear aluminosilicate solution: A population balance analysis. Journal of Crystal Growth, 2008, 310, 4656-4665.	1.5	14
40	Dissolution of the zeolites NaA, potassium exchanged zeolite (KA) and the amorphous and crystalline phases obtained by thermal treatment of zeolite KA in hot alkaline solution. Physical Chemistry Chemical Physics, 2000, 2, 3447-3451.	2.8	12
41	Radiometric analysis of the processes in stable silver iodide sols. Journal of Inorganic and Nuclear Chemistry, 1976, 38, 1317-1321.	0.5	11
42	Nucleation and crystal growth of zeolite A synthesised from hydrogels of different density. CrystEngComm, 2013, 15, 5784.	2.6	10
43	Deep Insights into the Processes Occurring during Early Stages of the Formation and Room-Temperature Evolution of the Core (Amorphous SiO₂)@Shell (Organocations) Nanoparticles. Journal of Physical Chemistry C, 2018, 122, 9441-9454.	3.1	10
44	Kinetic analysis of isothermal crystallization of low-carnegieite from precipitated amorphous aluminosilicate precursor. Microporous and Mesoporous Materials, 2004, 71, 27-32.	4.4	9
45	Preparation of mullite micro-vessels by a combined treatment of zeolite A. Microporous and Mesoporous Materials, 2003, 66, 311-319.	4.4	8
46	Anomalous nucleation events during crystallization of zeolite A under marginal alkalinities: a population balance analysis. CrystEngComm, 2012, 14, 3069.	2.6	8
47	Controlled aggregation of core(amorphous silica)@shell(TPA+-polysilicate) nanoparticles at room temperature by selective removal of TPA+ ions from the nanoparticle shell. Inorganic Chemistry Frontiers, 2019, 6, 1639-1653.	6.0	8
48	Study of the influence of the silica source on the properties of silicate solutions and particulate properties of zeolite X. Studies in Surface Science and Catalysis, 1999, , 13-20.	1.5	7
49	Kinetic Analysis of Isothermal Crystallization of Potassium Aluminosilicate Ceramics (Leucite and) Tj ETQq1 1 0.784314 rgBT /Overloc 10, 838-844.	3.0	7
50	The relationship between sub-micrometer sized ZSM-5, slice-like (lamellar) keatite and hollow Î±-quartz particles: a phase transformation study. CrystEngComm, 2013, 15, 5032.	2.6	7
51	Analysis of the influence of kinetic and chemical factors on the rate of crystal growth of zeolite A. Studies in Surface Science and Catalysis, 1999, 125, 69-76.	1.5	6
52	The influences of the way of preparation of Me-aluminosilicates (Me=Li, Na, K, Rb and Cs) on the products. Microporous and Mesoporous Materials, 2008, 112, 542-552.	4.4	4
53	A radiometric method for the characterization of particulate processes in colloidal suspensions Part 1. Theoretical approach. Powder Technology, 1979, 24, 35-40.	4.2	3
54	Zeolite A Synthesis under Dynamic Conditions, after Hydrogel Ageing. Croatica Chemica Acta, 2012, 85, 297-301.	0.4	3

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55	Particulate processes in freshly prepared silver iodide hydrosols Part I. Radiometric and electron-microscopic investigations. Powder Technology, 1982, 31, 63-73.	4.2	1
56	A radiometric method for the characterization of particulate processes in colloidal suspensions Part 2. Experimental verification of the method. Powder Technology, 1979, 24, 41-47.	4.2	0
57	Particulate processes in freshly prepared silver iodide hydrosols part II. Sedimentation analysis of the sols. Powder Technology, 1982, 31, 75-84.	4.2	0
58	Particulate processes in freshly prepared silver iodide hydrosols part III. Disagreement between experimental results and the existing models of silver iodide hydrosols. Powder Technology, 1983, 34, 9-18.	4.2	0
59	Particulate processes in freshly prepared silver iodide hydrosols Part IV. The concept of metaphase and its experimental verification. Powder Technology, 1983, 34, 19-27.	4.2	0