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	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
2	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
3	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
4	Nucleation and crystal growth of zeolite A synthesised from hydrogels of different density. CrystEngComm, 2013, 15, 5784.	2.6	10
5	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
6	Anomalous nucleation events during crystallization of zeolite A under marginal alkalinities: a population balance analysis. CrystEngComm, 2012, 14, 3069.	2.6	8
7	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
8	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
9	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
10	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
11	Zeolite A Synthesis under Dynamic Conditions, after Hydrogel Ageing. Croatica Chemica Acta, 2012, 85, 297-301.	0.4	3
12	New insights on the autocatalytic nucleation in zeolite A synthesis. CrystEngComm, 2011, 13, 1215-1220.	2.6	28
13	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
14	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
15	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
16	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
17	Kinetic Analysis of Isothermal Crystallization of Potassium Aluminosilicate Ceramics (Leucite and) Tj ETQq1 1 0.784314 rgBT /Overloc 10, 838-844.	3.0	7
18	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

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19	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
20	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
21	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
22	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
23	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
24	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
25	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
26	Influence of anions on the kinetics of zeolite A crystallization:. Journal of Crystal Growth, 2004, 267, 270-282.	1.5	31
27	Kinetic analysis of isothermal crystallization of low-carnegieite from precipitated amorphous aluminosilicate precursor. Microporous and Mesoporous Materials, 2004, 71, 27-32.	4.4	9
28	Preparation of mullite micro-vessels by a combined treatment of zeolite A. Microporous and Mesoporous Materials, 2003, 66, 311-319.	4.4	8
29	Experimental evidence of the â€œmemoryâ€•effect of amorphous aluminosilicate gel precursors. Microporous and Mesoporous Materials, 2003, 64, 21-32.	4.4	20
30	Natural zeolite clinoptilolite: new adjuvant in anticancer therapy. Journal of Molecular Medicine, 2001, 78, 708-720.	3.9	196
31	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
32	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
33	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
34	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
35	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
36	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

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37	Results of thermal and hydrothermal treatment of the aluminosilicate gels prepared at different batch concentrations. Thermochimica Acta, 1998, 317, 73-84.	2.7	25
38	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
39	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
40	Thermal analysis of cation-exchanged zeolites before and after their amorphization by ball milling. Thermochimica Acta, 1996, 276, 91-103.	2.7	20
41	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
42	Mechanochemistry of zeolites: Part 3. Amorphization of zeolite ZSM-5 by ball milling. Zeolites, 1995, 15, 51-57.	0.5	45
43	Mechanochemistry of zeolites: Part 2. Change in particulate properties of zeolites during ball milling. Zeolites, 1995, 15, 247-252.	0.5	37
44	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
45	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
46	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
47	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
48	Kinetics of zeolite dissolution. Part 2. Dissolution of zeolite X in hot sodium hydroxide solutions. Zeolites, 1991, 11, 810-815.	0.5	32
49	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
50	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
51	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
52	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
53	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
54	Particulate processes in freshly prepared silver iodide hydrosols Part I. Radiometric and electron-microscopic investigations. Powder Technology, 1982, 31, 63-73.	4.2	1

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55	Particulate processes in freshly prepared silver iodide hydrosols part II. Sedimentation analysis of the sols. Powder Technology, 1982, 31, 75-84.	4.2	0
56	Kinetic study of the transformation of zeolite A into zeolite P. Zeolites, 1982, 2, 135-142.	0.5	60
57	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
58	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
59	Radiometric analysis of the processes in stable silver iodide sols. Journal of Inorganic and Nuclear Chemistry, 1976, 38, 1317-1321.	0.5	11