Martina Urbanova

List of Publications by Year
in descending order

56	1,652	279798	302126
papers	citations	23 h-index	39 g-index

58	58	58	2136
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Preparation, structure and hydrothermal stability of alternative (sodium silicate-free) geopolymers. Journal of Materials Science, 2007, 42, 9267-9275.	3.7	135
2	Structure and Dynamics of Alginate Gels Cross-Linked by Polyvalent Ions Probed via Solid State NMR Spectroscopy. Biomacromolecules, 2017, 18, 2478-2488.	5.4	115
3	Formation of nanostructured epoxy networks containing polyhedral oligomeric silsesquioxane (POSS) blocks. Polymer, 2007, 48, 3041-3058.	3.8	94
4	Complex Analysis of the Aluminum Siting in the Framework of Silicon-Rich Zeolites. A Case Study on Ferrierites. Journal of Physical Chemistry C, 2011, 115, 11056-11064.	3.1	90
5	Epoxy Networks Reinforced with Polyhedral Oligomeric Silsesquioxanes:â€‰ Structure and Segmental Dynamics as Studied by Solid-State NMR. Macromolecules, 2008, 41, 372-386.	4.8	84
6	Structure of Framework Aluminum Lewis Sites and Perturbed Aluminum Atoms in Zeolites as Determined by ²⁷Al{¹H} REDOR (3Q) MAS NMR Spectroscopy and DFT/Molecular Mechanics. Angewandte Chemie - International Edition, 2015, 54, 541-545.	13.8	73
7	Location of Framework Al Atoms in the Channels of ZSMâ€5: Effect of the (Hydrothermal) Synthesis. Chemistry - A European Journal, 2016, 22, 3937-3941.	3.3	68
8	Al Organization in the SSZ-13 Zeolite. Al Distribution and Extraframework Sites of Divalent Cations. Journal of Physical Chemistry C, 2019, 123, 7968-7987.	3.1	63
9	Structural Diversity of Solid Dispersions of Acetylsalicylic Acid As Seen by Solid-State NMR. Molecular Pharmaceutics, 2014, 11, 516-530.	4.6	57
10	New perspectives of 19F MAS NMR in the characterization of amorphous forms of atorvastatin in dosage formulations. International Journal of Pharmaceutics, 2011, 409, 62-74.	5.2	56
11	Thermalâ€Induced Transformation of Polydopamine Structures: An Efficient Route for the Stabilization of the Polydopamine Surfaces. Macromolecular Chemistry and Physics, 2013, 214, 499-507.	2.2	52
12	A Solid-State NMR Study of Structure and Segmental Dynamics of Semicrystalline Elastomer-Toughened Nanocomposites. Macromolecules, 2006, 39, 5400-5409.	4.8	42
13	Interaction Pathways and Structureâ€“Chemical Transformations of Alginate Gels in Physiological Environments. Biomacromolecules, 2019, 20, 4158-4170.	5.4	42
14	Thermoresponsive Self-Assembly of Short Elastin-Like Polypentapeptides and Their Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2	4.1	40
15	Advances in 27Al MAS NMR Studies of Geopolymers. Annual Reports on NMR Spectroscopy, 2016, 88, 79-147.	1.5	35
16	Rational design of cement composites containing pozzolanic additions. Construction and Building Materials, 2017, 148, 411-418.	7.2	35
17	Structure and Pervaporation Properties of Poly(phenyleneâ€isoâ€phthalamide) Membranes Modified by Fullerene C₆₀. Macromolecular Materials and Engineering, 2009, 294, 432-440.	3.6	34
18	Insights into the Structural Transformations of Aluminosilicate Inorganic Polymers: A Comprehensive Solid-State NMR Study. Journal of Physical Chemistry C, 2012, 116, 14627-14637.	3.1	33

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19	A view from inside onto the surface of self-assembled nanocomposite coatings. Progress in Organic Coatings, 2008, 61, 145-155.	3.9	28
20	Cytotoxicity study and influence of SBA-15 surface polarity and pH on adsorption and release properties of anticancer agent pemetrexed. Materials Science and Engineering C, 2020, 109, 110552.	7.3	27
21	Characterization of solid polymer dispersions of active pharmaceutical ingredients by 19F MAS NMR and factor analysis. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 100, 59-66.	3.9	26
22	Structural and Surface Properties of Novel Polyurethane Films. Materials and Manufacturing Processes, 2009, 24, 1185-1189.	4.7	24
23	Structure and Distribution of Cross-Links in Boron-Modified Phenolâ€“Formaldehyde Resins Designed for Soft Magnetic Composites: A Multiple-Quantum ¹¹Bâ€“¹¹B MAS NMR Correlation Spectroscopy Study. Macromolecules, 2015, 48, 4874-4881.	4.8	23
24	Predicting the Crystal Structure of Decitabine by Powder NMR Crystallography: Influence of Long-Range Molecular Packing Symmetry on NMR Parameters. Crystal Growth and Design, 2016, 16, 7102-7111.	3.0	23
25	Exploring the Molecular-Level Architecture of the Active Compounds in Liquisolid Drug Delivery Systems Based on Mesoporous Silica Particles: Old Tricks for New Challenges. Molecular Pharmaceutics, 2017, 14, 2070-2078.	4.6	23
26	Transferring Lithium Ions in the Nanochannels of Flexible Metalâ€“Organic Frameworks Featuring Superchaotropic Metallacarborane Guests: Mechanism of Ionic Conductivity at Atomic Resolution. ACS Applied Materials & Interfaces, 2020, 12, 47447-47456.	8.0	23
27	Use of waste ceramics in adsorption technologies. Applied Clay Science, 2016, 134, 145-152.	5.2	21
28	Selective Measurement of Heteronuclear1Hâ”13C Dipolar Couplings in Motionally Heterogeneous Semicrystalline Polymer Systems. Journal of Physical Chemistry A, 2005, 109, 5050-5054.	2.5	20
29	Factor analysis of ²⁷Al MAS NMR spectra for identifying nanocrystalline phases in amorphous geopolymers. Magnetic Resonance in Chemistry, 2013, 51, 734-742.	1.9	19
30	Biaxial Q-shearing of 27Al 3QMAS NMR spectra: Insight into the structural disorder of framework aluminosilicates. Solid State Nuclear Magnetic Resonance, 2014, 57-58, 29-38.	2.3	18
31	Efficient Strategy for Determining the Atomic-Resolution Structure of Micro- and Nanocrystalline Solids within Polymeric Microbeads: Domain-Edited NMR Crystallography. Macromolecules, 2018, 51, 5364-5374.	4.8	18
32	Molecular-Level Control of Ciclopirox Olamine Release from Poly(ethylene oxide)-Based Mucoadhesive Buccal Films: Exploration of Structureâ€“Property Relationships with Solid-State NMR. Molecular Pharmaceutics, 2016, 13, 1551-1563.	4.6	16
33	Characterizing Crystal Disorder of Trospium Chloride: A Comprehensive,13C CP/MAS NMR, DSC, FTIR, and XRPD Study. Journal of Pharmaceutical Sciences, 2013, 102, 1235-1248.	3.3	15
34	NMR Crystallography of the Polymorphs of Metergoline. Crystals, 2018, 8, 378.	2.2	15
35	Investigation of Dissolution Behavior HPMC/EudragitÂ®/Magnesium Aluminometasilicate Oral Matrices Based on NMR Solid-State Spectroscopy and Dynamic Characteristics of Gel Layer. AAPS PharmSciTech, 2018, 19, 681-692.	3.3	14
36	Interface Induced Growth and Transformation of Polymer-Conjugated Proto-Crystalline Phases in Aluminosilicate Hybrids: A Multiple-Quantum ²³Naâ€“²³Na MAS NMR Correlation Spectroscopy Study.. Langmuir, 2016, 32, 2787-2797.	3.5	13

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37	Highly Soluble Drugs Directly Granulated by Water Dispersions of Insoluble EudragitÂ® Polymers as a Part of Hypromellose K100M Matrix Systems. BioMed Research International, 2019, 2019, 1-13.	1.9	10
38	Structural insight into the physical stability of amorphous Simvastatin dispersed in pHPMA: Enhanced dynamics and local clustering as evidenced by solid-state NMR and Raman spectroscopy. International Journal of Pharmaceutics, 2015, 478, 464-475.	5.2	9
39	Tubes for detection of cholinesterase inhibitorsâ€"Unique effects of Neusilin on the stability of butyrylcholinesterase-impregnated carriers. Enzyme and Microbial Technology, 2019, 128, 26-33.	3.2	9
40	The influence of nanoadditives on surface, permeability and mechanical properties of self-organized organicâ€"inorganic nanocomposite coatings. Journal of Coatings Technology Research, 2010, 7, 219-228.	2.5	8
41	Waste Brick Dust as Potential Sorbent of Lead and Cesium from Contaminated Water. Materials, 2019, 12, 1647.	2.9	8
42	Milling Activation for the Solventâ€Free Synthesis of the Zeolite Mordenite. European Journal of Inorganic Chemistry, 2020, 2020, 2791-2797.	2.0	8
43	Effect of montmorillonite on properties of nanocomposite coatings. Surface Engineering, 2008, 24, 268-271.	2.2	7
44	Impact of Cellulose Dissolution on 1-Butyl-3-Methylimidazolium Chloride Crystallization Studied by Raman Spectroscopy, Wide-Angle X-ray Scattering, and Solid-State NMR. Crystal Growth and Design, 2020, 20, 1706-1715.	3.0	7
45	In vitrodissolution study of acetylsalicylic acid solid dispersions. Tunable drug release allowed by the choice of polymer matrix. Pharmaceutical Development and Technology, 2015, 20, 935-940.	2.4	6
46	A novel insight into the origin of toughness in polypropyleneâ€"calcium carbonate microcomposites: Multivariate analysis of ss-NMR spectra. Polymer, 2017, 132, 106-113.	3.8	5
47	Spying on Fe ions and their role in modified aluminosilicates during the sorption of anions using solid-state NMR spectroscopy. Microporous and Mesoporous Materials, 2017, 241, 115-122.	4.4	4
48	Mechanically strong waterborne poly(urethaneâ€urea) films and nanocomposite films. Journal of Applied Polymer Science, 2021, 138, 50011.	2.6	4
49	Ultrasonic Pretreatment as a Tool for the Preparation of Low-Defect Zeolite Mordenite. ACS Omega, 2021, 6, 2340-2345.	3.5	4
50	Polynorbornene-Based Polyelectrolytes with Covalently Attached Metallacarboranes: Synthesis, Characterization, and Lithium-Ion Mobility. Macromolecules, 2021, 54, 6867-6877.	4.8	4
51	Thermal Behavior of Tetrahydropyran-Intercalated VOPO4: Structural and Dynamics Study. European Journal of Inorganic Chemistry, 2007, 2007, 444-451.	2.0	2
52	Properties of Phosphorus-Containing Geopolymer Matrix and Fiber-Reinforced Composite. Ceramic Engineering and Science Proceedings, 2009, , 283-299.	0.1	2
53	Enantiotropy of Simvastatin as a Result of Weakened Interactions in the Crystal Lattice: Entropy-Driven Double Transitions and the Transient Modulated Phase as Seen by Solid-State NMR Spectroscopy. Molecules, 2022, 27, 679.	3.8	2
54	Influence of the ultrasonic-assisted synthesis on Al distribution in a MOR zeolite: from gel to resulting material. New Journal of Chemistry, 0, , .	2.8	1

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55	Polyamide/layered silicate nanocomposites: A correlation between fracture toughness and molecular mobility. E-Polymers, 2009, 9, .	3.0	0
56	Structural Changes of Sodium Warfarin in Tablets Affecting the Dissolution Profiles and Potential Safety of Generic Substitution. Pharmaceutics, 2021, 13, 1364.	4.5	0