

# Martina Urbanova

## List of Publications by Year in descending order

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56  
papers

1,652  
citations

279798

23  
h-index

302126

39  
g-index

58  
all docs

58  
docs citations

58  
times ranked

2136  
citing authors

#	ARTICLE	IF	CITATIONS
1	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. <i>Molecules</i> , 2022, 27, 679.	3.8	2
2	Mechanically strong waterborne poly(urethane-urea) films and nanocomposite films. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50011.	2.6	4
3	Ultrasonic Pretreatment as a Tool for the Preparation of Low-Defect Zeolite Mordenite. <i>ACS Omega</i> , 2021, 6, 2340-2345.	3.5	4
4	Polynorbornene-Based Polyelectrolytes with Covalently Attached Metallacarboranes: Synthesis, Characterization, and Lithium-Ion Mobility. <i>Macromolecules</i> , 2021, 54, 6867-6877.	4.8	4
5	Structural Changes of Sodium Warfarin in Tablets Affecting the Dissolution Profiles and Potential Safety of Generic Substitution. <i>Pharmaceutics</i> , 2021, 13, 1364.	4.5	0
6	Cytotoxicity study and influence of SBA-15 surface polarity and pH on adsorption and release properties of anticancer agent pemetrexed. <i>Materials Science and Engineering C</i> , 2020, 109, 110552.	7.3	27
7	Transferring Lithium Ions in the Nanochannels of Flexible Metal-Organic Frameworks Featuring Superchaotropic Metallacarborane Guests: Mechanism of Ionic Conductivity at Atomic Resolution. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 47447-47456.	8.0	23
8	Milling Activation for the Solvent-Free Synthesis of the Zeolite Mordenite. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 2791-2797.	2.0	8
9	Impact of Cellulose Dissolution on 1-Butyl-3-Methylimidazolium Chloride Crystallization Studied by Raman Spectroscopy, Wide-Angle X-ray Scattering, and Solid-State NMR. <i>Crystal Growth and Design</i> , 2020, 20, 1706-1715.	3.0	7
10	Interaction Pathways and Structure-Chemical Transformations of Alginate Gels in Physiological Environments. <i>Biomacromolecules</i> , 2019, 20, 4158-4170.	5.4	42
11	Waste Brick Dust as Potential Sorbent of Lead and Cesium from Contaminated Water. <i>Materials</i> , 2019, 12, 1647.	2.9	8
12	Tubes for detection of cholinesterase inhibitors—Unique effects of Neusilin on the stability of butyrylcholinesterase-impregnated carriers. <i>Enzyme and Microbial Technology</i> , 2019, 128, 26-33.	3.2	9
13	Highly Soluble Drugs Directly Granulated by Water Dispersions of Insoluble Eudragit® Polymers as a Part of Hypromellose K100M Matrix Systems. <i>BioMed Research International</i> , 2019, 2019, 1-13.	1.9	10
14	Al Organization in the SSZ-13 Zeolite. Al Distribution and Extraframework Sites of Divalent Cations. <i>Journal of Physical Chemistry C</i> , 2019, 123, 7968-7987.	3.1	63
15	NMR Crystallography of the Polymorphs of Metergoline. <i>Crystals</i> , 2018, 8, 378.	2.2	15
16	Efficient Strategy for Determining the Atomic-Resolution Structure of Micro- and Nanocrystalline Solids within Polymeric Microbeads: Domain-Edited NMR Crystallography. <i>Macromolecules</i> , 2018, 51, 5364-5374.	4.8	18
17	Investigation of Dissolution Behavior HPMC/Eudragit®/Magnesium Aluminometasilicate Oral Matrices Based on NMR Solid-State Spectroscopy and Dynamic Characteristics of Gel Layer. <i>AAPS PharmSciTech</i> , 2018, 19, 681-692.	3.3	14
18	Spying on Fe ions and their role in modified aluminosilicates during the sorption of anions using solid-state NMR spectroscopy. <i>Microporous and Mesoporous Materials</i> , 2017, 241, 115-122.	4.4	4

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19	Structure and Dynamics of Alginate Gels Cross-Linked by Polyvalent Ions Probed via Solid State NMR Spectroscopy. <i>Biomacromolecules</i> , 2017, 18, 2478-2488.	5.4	115
20	Rational design of cement composites containing pozzolanic additions. <i>Construction and Building Materials</i> , 2017, 148, 411-418.	7.2	35
21	Exploring the Molecular-Level Architecture of the Active Compounds in Liquid Drug Delivery Systems Based on Mesoporous Silica Particles: Old Tricks for New Challenges. <i>Molecular Pharmaceutics</i> , 2017, 14, 2070-2078.	4.6	23
22	A novel insight into the origin of toughness in polypropylene-calcium carbonate microcomposites: Multivariate analysis of ss-NMR spectra. <i>Polymer</i> , 2017, 132, 106-113.	3.8	5
23	Location of Framework Al Atoms in the Channels of ZSM-5: Effect of the (Hydrothermal) Synthesis. <i>Chemistry - A European Journal</i> , 2016, 22, 3937-3941.	3.3	68
24	Molecular-Level Control of Ciclopirox Olamine Release from Poly(ethylene oxide)-Based Mucoadhesive Buccal Films: Exploration of Structure-Property Relationships with Solid-State NMR. <i>Molecular Pharmaceutics</i> , 2016, 13, 1551-1563.	4.6	16
25	Predicting the Crystal Structure of Decitabine by Powder NMR Crystallography: Influence of Long-Range Molecular Packing Symmetry on NMR Parameters. <i>Crystal Growth and Design</i> , 2016, 16, 7102-7111.	3.0	23
26	Advances in <sup>27</sup> Al MAS NMR Studies of Geopolymers. <i>Annual Reports on NMR Spectroscopy</i> , 2016, 88, 79-147.	1.5	35
27	Use of waste ceramics in adsorption technologies. <i>Applied Clay Science</i> , 2016, 134, 145-152.	5.2	21
28	Interface Induced Growth and Transformation of Polymer-Conjugated Proto-Crystalline Phases in Aluminosilicate Hybrids: A Multiple-Quantum <sup>23</sup> Na- <sup>23</sup> Na MAS NMR Correlation Spectroscopy Study. <i>Langmuir</i> , 2016, 32, 2787-2797.	3.5	13
29	Structure of Framework Aluminum Lewis Sites and Perturbed Aluminum Atoms in Zeolites as Determined by <sup>27</sup> Al{ <sup>1</sup> H} REDOR (3Q) MAS NMR Spectroscopy and DFT/Molecular Mechanics. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 541-545.	13.8	73
30	<i>In vitro</i> dissolution study of acetylsalicylic acid solid dispersions. Tunable drug release allowed by the choice of polymer matrix. <i>Pharmaceutical Development and Technology</i> , 2015, 20, 935-940.	2.4	6
31	Structure and Distribution of Cross-Links in Boron-Modified Phenol-Formaldehyde Resins Designed for Soft Magnetic Composites: A Multiple-Quantum <sup>11</sup> B- <sup>11</sup> B MAS NMR Correlation Spectroscopy Study. <i>Macromolecules</i> , 2015, 48, 4874-4881.	4.8	23
32	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. <i>International Journal of Pharmaceutics</i> , 2015, 478, 464-475.	5.2	9
33	Structural Diversity of Solid Dispersions of Acetylsalicylic Acid As Seen by Solid-State NMR. <i>Molecular Pharmaceutics</i> , 2014, 11, 516-530.	4.6	57
34	Biaxial Q-shearing of <sup>27</sup> Al 3QMAS NMR spectra: Insight into the structural disorder of framework aluminosilicates. <i>Solid State Nuclear Magnetic Resonance</i> , 2014, 57-58, 29-38.	2.3	18
35	Characterizing Crystal Disorder of Trosipium Chloride: A Comprehensive, <sup>13</sup> C CP/MAS NMR, DSC, FTIR, and XRPD Study. <i>Journal of Pharmaceutical Sciences</i> , 2013, 102, 1235-1248.	3.3	15
36	Characterization of solid polymer dispersions of active pharmaceutical ingredients by <sup>19</sup> F MAS NMR and factor analysis. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 100, 59-66.	3.9	26

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37	Thermal-Induced Transformation of Polydopamine Structures: An Efficient Route for the Stabilization of the Polydopamine Surfaces. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 499-507.	2.2	52
38	Factor analysis of <sup>27</sup> Al MAS NMR spectra for identifying nanocrystalline phases in amorphous geopolymers. <i>Magnetic Resonance in Chemistry</i> , 2013, 51, 734-742.	1.9	19
39	Insights into the Structural Transformations of Aluminosilicate Inorganic Polymers: A Comprehensive Solid-State NMR Study. <i>Journal of Physical Chemistry C</i> , 2012, 116, 14627-14637.	3.1	33
40	Complex Analysis of the Aluminum Siting in the Framework of Silicon-Rich Zeolites. A Case Study on Ferrierites. <i>Journal of Physical Chemistry C</i> , 2011, 115, 11056-11064.	3.1	90
41	New perspectives of <sup>19</sup> F MAS NMR in the characterization of amorphous forms of atorvastatin in dosage formulations. <i>International Journal of Pharmaceutics</i> , 2011, 409, 62-74.	5.2	56
42	The influence of nanoadditives on surface, permeability and mechanical properties of self-organized organic-inorganic nanocomposite coatings. <i>Journal of Coatings Technology Research</i> , 2010, 7, 219-228.	2.5	8
43	Structural and Surface Properties of Novel Polyurethane Films. <i>Materials and Manufacturing Processes</i> , 2009, 24, 1185-1189.	4.7	24
44	Structure and Pervaporation Properties of Poly(phenylene-iso-phthalamide) Membranes Modified by Fullerene C <sub>60</sub> . <i>Macromolecular Materials and Engineering</i> , 2009, 294, 432-440.	3.6	34
45	Polyamide/layered silicate nanocomposites: A correlation between fracture toughness and molecular mobility. <i>E-Polymers</i> , 2009, 9, .	3.0	0
46	Properties of Phosphorus-Containing Geopolymer Matrix and Fiber-Reinforced Composite. <i>Ceramic Engineering and Science Proceedings</i> , 2009, , 283-299.	0.1	2
47	A view from inside onto the surface of self-assembled nanocomposite coatings. <i>Progress in Organic Coatings</i> , 2008, 61, 145-155.	3.9	28
48	Epoxy Networks Reinforced with Polyhedral Oligomeric Silsesquioxanes: Structure and Segmental Dynamics as Studied by Solid-State NMR. <i>Macromolecules</i> , 2008, 41, 372-386.	4.8	84
49	Effect of montmorillonite on properties of nanocomposite coatings. <i>Surface Engineering</i> , 2008, 24, 268-271.	2.2	7
50	Thermal Behavior of Tetrahydropyran-Intercalated VOPO4: Structural and Dynamics Study. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 444-451.	2.0	2
51	Thermoresponsive Self-Assembly of Short Elastin-Like Polypentapeptides and Their Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overloc	4.1	40
52	Formation of nanostructured epoxy networks containing polyhedral oligomeric silsesquioxane (POSS) blocks. <i>Polymer</i> , 2007, 48, 3041-3058.	3.8	94
53	Preparation, structure and hydrothermal stability of alternative (sodium silicate-free) geopolymers. <i>Journal of Materials Science</i> , 2007, 42, 9267-9275.	3.7	135
54	A Solid-State NMR Study of Structure and Segmental Dynamics of Semicrystalline Elastomer-Toughened Nanocomposites. <i>Macromolecules</i> , 2006, 39, 5400-5409.	4.8	42

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55	Selective Measurement of Heteronuclear $^1\text{H}$ - $^{13}\text{C}$ Dipolar Couplings in Motionally Heterogeneous Semicrystalline Polymer Systems. <i>Journal of Physical Chemistry A</i> , 2005, 109, 5050-5054.	2.5	20
56	Influence of the ultrasonic-assisted synthesis on Al distribution in a MOR zeolite: from gel to resulting material. <i>New Journal of Chemistry</i> , 0, , .	2.8	1