

Jiri Brus

List of Publications by Year in descending order

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245
papers

5,886
citations

71102

41
h-index

128289

60
g-index

249
all docs

249
docs citations

249
times ranked

6626
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural dependence of crystallization in phosphorus-containing sodium aluminoborosilicate glasses. <i>Journal of the American Ceramic Society</i> , 2022, 105, 2556-2574.	3.8	7
2	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
3	Microporous polymers prepared from non-porous hyper-cross-linked networks by removing covalently attached template molecules. <i>Microporous and Mesoporous Materials</i> , 2022, 330, 111636.	4.4	6
4	Formation and local structure of framework Al Lewis sites in beta zeolites. <i>Journal of Chemical Physics</i> , 2022, 156, 104702.	3.0	2
5	Phase Separation and pH-Dependent Behavior of Four-Arm Star-Shaped Porphyrin-PNIPAM ₄ Conjugates. <i>Macromolecules</i> , 2022, 55, 2109-2122.	4.8	6
6	A computational inspection of the dissociation energy of mid-sized organic dimers. <i>Journal of Chemical Physics</i> , 2022, 156, .	3.0	5
7	The atomic-level structure of bandgap engineered double perovskite alloys Cs ₂ AgIn _{1-x} Fe _x Cl ₆ . <i>Chemical Science</i> , 2021, 12, 1730-1735.	7.4	34
8	Oxidative addition of cyanogen bromide to C,N-chelated and Lappert's stannylenes. <i>Dalton Transactions</i> , 2021, 50, 5519-5529.	3.3	3
9	Copolymer chain formation of 2-oxazolines by <i>in situ</i> ¹ H-NMR spectroscopy: dependence of sequential composition on substituent structure and monomer ratios. <i>RSC Advances</i> , 2021, 11, 10468-10478.	3.6	3
10	Thermoset-thermoplastic-ionic liquid ternary hybrids as novel functional polymer materials. <i>Polymer</i> , 2021, 218, 123507.	3.8	14
11	Critical role of additive-induced molecular interaction on the operational stability of perovskite light-emitting diodes. <i>Joule</i> , 2021, 5, 618-630.	24.0	99
12	Garnet-Poly(μ -caprolactone-co-trimethylene carbonate) Polymer-in-Ceramic Composite Electrolyte for All-Solid-State Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 2531-2542.	5.1	32
13	A Volumetric Analysis of the ¹ H NMR Chemical Shielding in Supramolecular Systems. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3333.	4.1	2
14	Microporous Hyper-Cross-Linked Polymers with High and Tuneable Content of Pyridine Units: Synthesis and Application for Reversible Sorption of Water and Carbon Dioxide. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2100209.	3.9	7
15	Polynorbornene-Based Polyelectrolytes with Covalently Attached Metallocarboranes: Synthesis, Characterization, and Lithium-Ion Mobility. <i>Macromolecules</i> , 2021, 54, 6867-6877.	4.8	4
16	On the Many-Body Expansion of an Interaction Energy of Some Supramolecular Halogen-Containing Capsules. <i>Molecules</i> , 2021, 26, 4431.	3.8	1
17	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
18	In-situ measurement of mechanical properties and dimensional changes of preceramic thermosets during their pyrolysis conversion to ceramics using thermomechanical analysis. <i>Ceramics International</i> , 2021, 47, 23285-23294.	4.8	1

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19	Manipulating crystallization dynamics through chelating molecules for bright perovskite emitters. <i>Nature Communications</i> , 2021, 12, 4831.	12.8	56
20	Cinchonine-based organosilica materials as heterogeneous catalysts of enantioselective alkene dihydroxylation. <i>Journal of Catalysis</i> , 2021, 404, 493-500.	6.2	0
21	Reconstructing Reliable Powder Patterns from Spikelets (Q)CPMG NMR Spectra: Simplification of UWNMR Crystallography Analysis. <i>Molecules</i> , 2021, 26, 6051.	3.8	3
22	Modeling the Structure of Crystalline Alamethicin and Its NMR Chemical Shift Tensors. <i>Antibiotics</i> , 2021, 10, 1265.	3.7	0
23	A guest-assisted molecular-organization approach for >17% efficiency organic solar cells using environmentally friendly solvents. <i>Nature Energy</i> , 2021, 6, 1045-1053.	39.5	230
24	Probing the ⁹¹ Zr NMR parameters in the solid state by a combination of DFT calculations and experiments. <i>Chemical Physics Letters</i> , 2020, 738, 136855.	2.6	0
25	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
26	Effect of structural features of polypyrrole (PPy) on electrical conductivity reflected on ¹³ C ssNMR parameters. <i>Synthetic Metals</i> , 2020, 259, 116250.	3.9	11
27	Formation of Layered Proton-Conducting Zirconium and Titanium Organophosphonates by Topotactic Reaction: Physicochemical Properties, Proton Dynamics, and Atomic-Resolution Structure. <i>Inorganic Chemistry</i> , 2020, 59, 505-513.	4.0	5
28	Chitosan-glucan complex hollow fibers reinforced collagen wound dressing embedded with aloe vera. Part I: Preparation and characterization. <i>Carbohydrate Polymers</i> , 2020, 230, 115708.	10.2	51
29	Transferring Lithium Ions in the Nanochannels of Flexible Metal-Organic Frameworks Featuring Superchaotropic Metallocarborane Guests: Mechanism of Ionic Conductivity at Atomic Resolution. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 47447-47456.	8.0	23
30	Kinetics of pozzolanic reaction and carbonation in ceramic lime system: Thermogravimetry and solid-state NMR spectroscopy study. <i>Journal of Building Engineering</i> , 2020, 32, 101729.	3.4	5
31	Polymorphic Forms of Valinomycin Investigated by NMR Crystallography. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4907.	4.1	8
32	Highly conducting 1-D polypyrrole prepared in the presence of safranin. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12140-12147.	5.5	22
33	Effect of Alkali-Free Synthesis and Post-Synthetic Treatment on Acid Sites in Beta Zeolites. <i>Molecules</i> , 2020, 25, 3434.	3.8	4
34	Microporous hyper-cross-linked polyacetylene networks: Covalent structure and texture modification by reversible Schiff-base chemistry. <i>European Polymer Journal</i> , 2020, 136, 109914.	5.4	4
35	Gallium Species Incorporated into MOF Structure: Insight into the Formation of a 3D Polycrystalline Gallium-Imidazole Framework. <i>Inorganic Chemistry</i> , 2020, 59, 13933-13941.	4.0	3
36	Near-Infrared Light-Responsive Cu-Doped Cs ₂ AgBiBr ₆ . <i>Advanced Functional Materials</i> , 2020, 30, 2005521.	14.9	56

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37	Parametrizing the Spatial Dependence of ¹ H NMR Chemical Shifts in π -Stacked Molecular Fragments. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7908.	4.1	5
38	Magnetizing lead-free halide double perovskites. <i>Science Advances</i> , 2020, 6, .	10.3	56
39	Hyaluronan biofilms reinforced with partially deacetylated chitin nanowhiskers: Extraction, fabrication, in-vitro and antibacterial properties of advanced nanocomposites. <i>Carbohydrate Polymers</i> , 2020, 235, 115951.	10.2	21
40	Uncovering lead formate crystallization in oil-based paintings. <i>Dalton Transactions</i> , 2020, 49, 5044-5054.	3.3	12
41	Ductile/brittle PA6/PS system: Effect of carbon nanoplateletsâ€modified interface on performance. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49100.	2.6	2
42	Perovskite-molecule composite thin films for efficient and stable light-emitting diodes. <i>Nature Communications</i> , 2020, 11, 891.	12.8	83
43	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
44	(1S,2S)-Cyclohexane-1,2-diamine-based Organosilane Fibres as a Powerful Tool Against Pathogenic Bacteria. <i>Polymers</i> , 2020, 12, 206.	4.5	5
45	Novel chapter in hybrid materials: One-pot synthesis of purely organosilane fibers. <i>Polymer</i> , 2020, 190, 122234.	3.8	5
46	Monitoring the Site-Specific Solid-State NMR Data in Oligopeptides. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2700.	4.1	4
47	Impact of Hydrogen Bonds Limited Dipolar Disorder in High-k Polymer Gate Dielectric on Charge Carrier Transport in OFET. <i>Polymers</i> , 2020, 12, 826.	4.5	3
48	Successful Strategy for High Degree of Freedom Crystal Structure Determination from Powder X-Ray Diffraction Data: A Case Study for Selexipag Form I with 38 DOF. <i>Crystal Growth and Design</i> , 2019, 19, 4625-4631.	3.0	11
49	Novel Cerium Bisphosphinate Coordination Polymer and Unconventional Metalâ€Organic Framework. <i>Crystals</i> , 2019, 9, 303.	2.2	8
50	Unraveling and Mitigating the Storage Instability of Fluoroethylene Carbonate-Containing LiPF ₆ Electrolytes To Stabilize Lithium Metal Anodes for High-Temperature Rechargeable Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 4925-4935.	5.1	49
51	Interaction Pathways and Structureâ€Chemical Transformations of Alginate Gels in Physiological Environments. <i>Biomacromolecules</i> , 2019, 20, 4158-4170.	5.4	42
52	Hydration of Ordinary Portland Cement in Presence of Lead Sorbed on Ceramic Sorbent. <i>Materials</i> , 2019, 12, 19.	2.9	13
53	Monolithic intercalated PNIPAm/starch hydrogels with very fast and extensive one-way volume and swelling responses to temperature and pH: prospective actuators and drug release systems. <i>Soft Matter</i> , 2019, 15, 752-769.	2.7	26
54	Waste Brick Dust as Potential Sorbent of Lead and Cesium from Contaminated Water. <i>Materials</i> , 2019, 12, 1647.	2.9	8

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55	Exploring Accuracy Limits of Predictions of the ¹ H NMR Chemical Shielding Anisotropy in the Solid State. <i>Molecules</i> , 2019, 24, 1731.	3.8	11
56	Role of <i>p</i> -Benzoquinone in the Synthesis of a Conducting Polymer, Polyaniline. <i>ACS Omega</i> , 2019, 4, 7128-7139.	3.5	22
57	The addition of Grignard reagents to carbodiimides. The synthesis, structure and potential utilization of magnesium amidinates. <i>Dalton Transactions</i> , 2019, 48, 5335-5342.	3.3	12
58	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
59	Synthesis of hyper-cross-linked microporous poly(phenylacetylene)s having aldehyde and other groups and their chemisorption and physisorption ability. <i>European Polymer Journal</i> , 2019, 114, 279-286.	5.4	9
60	Fibrous electrocatalytic materials based on carbon/copper/copper phosphides for effective hydrogen evolution. <i>Applied Surface Science</i> , 2019, 479, 70-76.	6.1	10
61	Fluoroethylene Carbonate Containing Electrolytes: Origin of Poor Shelf Life and Its Mitigation. <i>ECS Meeting Abstracts</i> , 2019, .	0.0	0
62	Porous Heat-Treated Polyacrylonitrile Scaffolds for Bone Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 8496-8506.	8.0	20
63	Biopolymer strategy for the treatment of Wilson's disease. <i>Journal of Controlled Release</i> , 2018, 273, 131-138.	9.9	12
64	On the key role of SiO ₂ @POSS hybrid filler in tailoring networking and interfaces in rubber nanocomposites. <i>Polymer Testing</i> , 2018, 65, 429-439.	4.8	18
65	Determining the Crystal Structures of Peptide Analogs of Boronic Acid in the Absence of Single Crystals: Intricate Motifs of Ixazomib Citrate Revealed by XRPD Guided by ss-NMR. <i>Crystal Growth and Design</i> , 2018, 18, 3616-3625.	3.0	22
66	Homo- and Copolycondensation of Aromatic Internal Diynes Catalyzed with Co ₂ (CO) ₈ : A Facile Route to Microporous Photoluminescent Polyphenylenes with Hyperbranched or Crosslinked Architecture. <i>Macromolecular Rapid Communications</i> , 2018, 39, 1700518.	3.9	11
67	Fluorinated 2-Alkyl-2-oxazolines of High Reactivity: Spacer-Length-Induced Acceleration for Cationic Ring-Opening Polymerization As a Basis for Triphilic Block Copolymer Synthesis. <i>ACS Macro Letters</i> , 2018, 7, 7-10.	4.8	15
68	NMR Crystallography of the Polymorphs of Metergoline. <i>Crystals</i> , 2018, 8, 378.	2.2	15
69	Hyper-Cross-Linked Polyacetylene-Type Microporous Networks Decorated with Terminal Ethynyl Groups as Heterogeneous Acid Catalysts for Acetalization and Esterification Reactions. <i>Chemistry - A European Journal</i> , 2018, 24, 14742-14749.	3.3	23
70	Fluorophilic-Lipophilic-Hydrophilic Poly(2-oxazoline) Block Copolymers as MRI Contrast Agents: From Synthesis to Self-Assembly. <i>Macromolecules</i> , 2018, 51, 6047-6056.	4.8	18
71	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
72	The Nature of Chemical Bonding in Lewis Adducts as Reflected by ²⁷ Al NMR Quadrupolar Coupling Constant: Combined Solid-State NMR and Quantum Chemical Approach. <i>Inorganic Chemistry</i> , 2018, 57, 7428-7437.	4.0	7

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73	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
74	Theoretical Investigations Into the Variability of the 15N Solid-State NMR Parameters Within an Antimicrobial Peptide Ampullosporin A. <i>Physiological Research</i> , 2018, 67, S349-S356.	0.9	2
75	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
76	Synthesis of conductive doubly filled poly(N-isopropylacrylamide)-polyaniline-SiO ₂ hydrogels. <i>Sensors and Actuators B: Chemical</i> , 2017, 244, 616-634.	7.8	34
77	Unexpectedly Facile Rh(I) Catalyzed Polymerization of Ethynylbenzaldehyde Type Monomers: Synthesis of Polyacetylenes Bearing Reactive and Easy Transformable Pendant Carbaldehyde Groups. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1600792.	3.9	5
78	Poly(N-isopropylacrylamide)-SiO ₂ nanocomposites interpenetrated by starch: Stimuli-responsive hydrogels with attractive tensile properties. <i>European Polymer Journal</i> , 2017, 88, 349-372.	5.4	32
79	Describing the anisotropic 133Cs solid state NMR interactions in cesium chromate. <i>Chemical Physics Letters</i> , 2017, 684, 8-13.	2.6	4
80	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
81	Rational design of cement composites containing pozzolanic additions. <i>Construction and Building Materials</i> , 2017, 148, 411-418.	7.2	35
82	Exploring the Molecular-Level Architecture of the Active Compounds in Liquisolid Drug Delivery Systems Based on Mesoporous Silica Particles: Old Tricks for New Challenges. <i>Molecular Pharmaceutics</i> , 2017, 14, 2070-2078.	4.6	23
83	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
84	Unexpected Crystallization Patterns of Zinc Boron Imidazolate Framework ZBIF-1: NMR Crystallography of Integrated Metal-Organic Frameworks. <i>ChemPhysChem</i> , 2017, 18, 3576-3582.	2.1	6
85	Retention of dead standing plant biomass (marcescence) increases subsequent litter decomposition in the soil organic layer. <i>Plant and Soil</i> , 2017, 418, 571-579.	3.7	22
86	Novel triphilic block copolymers based on poly(2-methyl-2-oxazoline)-block-poly(2-octyl-2-oxazoline) with different terminal perfluoroalkyl fragments: Synthesis and self-assembly behaviour. <i>European Polymer Journal</i> , 2017, 88, 645-655.	5.4	20
87	Synthesis and Characterization of New 3-(4-Arylpiperazin-1-yl)-2-hydroxypropyl 4-Propoxybenzoates and Their Hydrochloride Salts. <i>Molecules</i> , 2016, 21, 707.	3.8	6
88	Ionic I^- -Conjugated Polymer Networks by Catalyst-Free Polymerization, Photoluminescence and Gas Sorption Behavior. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 1886-1898.	2.2	2
89	On the predictions of the 11B solid state NMR parameters. <i>Chemical Physics Letters</i> , 2016, 655-656, 66-70.	2.6	12
90	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

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91	The plane-wave DFT investigations into the structure and the ¹¹ B solid-state NMR parameters of lithium fluorooxoborates. <i>Chemical Physics Letters</i> , 2016, 666, 22-27.	2.6	4
92	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
93	Local Structure of Cationic Sites in Dehydrated Zeolites Inferred from ²⁷ Al Magic-Angle Spinning NMR and Density Functional Theory Calculations. A Study on Li-, Na-, and K-Chabazite. <i>Journal of Physical Chemistry C</i> , 2016, 120, 14216-14225.	3.1	18
94	Modified Crystalline Structure of Silane-Crosslinked Polyethylene in the Proximity of Nanodiamonds. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 441-450.	3.6	0
95	Polyaniline/polybenzimidazole blends: Characterisation of its physico-chemical properties and gas separation behaviour. <i>European Polymer Journal</i> , 2016, 77, 98-113.	5.4	28
96	Advances in ²⁷ Al MAS NMR Studies of Geopolymers. <i>Annual Reports on NMR Spectroscopy</i> , 2016, 88, 79-147.	1.5	35
97	Use of waste ceramics in adsorption technologies. <i>Applied Clay Science</i> , 2016, 134, 145-152.	5.2	21
98	Interface Induced Growth and Transformation of Polymer-Conjugated Proto-Crystalline Phases in Aluminosilicate Hybrids: A Multiple-Quantum ²³ Naâ€“ ²³ Na MAS NMR Correlation Spectroscopy Study.. <i>Langmuir</i> , 2016, 32, 2787-2797.	3.5	13
99	Biodegradable system for drug delivery of hydrolytically labile azanucleoside drugs. <i>Biomedical Papers of the Medical Faculty of the University Palacký&#x0301;, Olomouc, Czechoslovakia</i> , 2016, 160, 222-230.	0.6	2
100	Structure of Framework Aluminum Lewis Sites and Perturbed Aluminum Atoms in Zeolites as Determined by ²⁷ Al{ ¹ H} REDOR (3Q) MAS NMR Spectroscopy and DFT/Molecular Mechanics. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 541-545.	13.8	73
101	â€“Wax bloomâ€“™ on beeswax cultural heritage objects: Exploring the causes of the phenomenon. <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 509-513.	1.9	7
102	<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
103	Oxidative Additions of Homoleptic Tin(II) Amidinate. <i>Organometallics</i> , 2015, 34, 606-615.	2.3	13
104	Origin of toughness in ¹ 2-polypropylene: The effect of molecular mobility in the amorphous phase. <i>Polymer</i> , 2015, 60, 107-114.	3.8	17
105	Multiscale approach to the morphology, structure, and segmental dynamics of complex degradable aliphatic polyurethanes. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	14
106	Structure and Distribution of Cross-Links in Boron-Modified Phenolâ€“Formaldehyde Resins Designed for Soft Magnetic Composites: A Multiple-Quantum ¹¹ Bâ€“ ¹¹ B MAS NMR Correlation Spectroscopy Study. <i>Macromolecules</i> , 2015, 48, 4874-4881.	4.8	23
107	Chain-growth copolymerization of functionalized ethynylarenes with 1,4-diethynylbenzene and 4,4â€“2-diethynylbiphenyl into conjugated porous networks. <i>European Polymer Journal</i> , 2015, 67, 252-263.	5.4	12
108	Sorption of enantiomers and alcohols into Nafionâ€™ and the role of air humidity in the experimental data evaluation. <i>Separation and Purification Technology</i> , 2015, 144, 232-239.	7.9	3

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109	Preparation of silicon oxynitrocarbide (SiONC) and of its ceramic-fibre-composites via hydrosilylation/radical polymerization/pyrolysis. <i>Journal of Non-Crystalline Solids</i> , 2015, 423-424, 9-17.	3.1	2
110	RAFT of sulfobetaine for modifying poly(glycidyl methacrylate) microspheres to reduce nonspecific protein adsorption. <i>Journal of Polymer Science Part A</i> , 2015, 53, 2273-2284.	2.3	6
111	NMR crystallography of monovalent cations in inorganic matrixes: Li ⁺ siting and the local structure of Li ⁺ sites in ferrierites. <i>Chemical Communications</i> , 2015, 51, 8962-8965.	4.1	14
112	Methodological comparison for quantitative analysis of fossil and recently derived carbon in mine soils with high content of aliphatic kerogen. <i>Organic Geochemistry</i> , 2015, 89-90, 14-22.	1.8	21
113	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
114	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
115	Post polymerisation hypercrosslinking of styrene/divinylbenzene poly(HIPE)s: Creating micropores within macroporous polymer. <i>Polymer</i> , 2014, 55, 410-415.	3.8	54
116	Transition-Metal-Catalyzed Chain-Growth Polymerization of 1,4-Diethynylbenzene into Microporous Crosslinked Poly(phenylacetylene)s: the Effect of Reaction Conditions. <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 1855-1869.	2.2	25
117	An electrorheological investigation of PVB solutions in connection with their electrospinning qualities. <i>Polymer Testing</i> , 2014, 39, 115-121.	4.8	17
118	A comprehensive study of soft magnetic materials based on FeSi spheres and polymeric resin modified by silica nanorods. <i>Materials Chemistry and Physics</i> , 2014, 147, 649-660.	4.0	43
119	Dynamic scaling and kinetic roughening of poly(ethylene) islands grown by vapor phase deposition. <i>Thin Solid Films</i> , 2014, 565, 249-260.	1.8	10
120	Control over the Self-Assembly and Dynamics of Metallacarborane Nanorotors by the Nature of the Polymer Matrix: A Solid-State NMR Study. <i>Macromolecules</i> , 2014, 47, 6343-6354.	4.8	34
121	The covariance of the differences between experimental and theoretical chemical shifts as an aid for assigning two-dimensional heteronuclear correlation solid-state NMR spectra. <i>Chemical Physics Letters</i> , 2014, 608, 334-339.	2.6	20
122	Biaxial Q-shearing of ²⁷ 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
123	Multiscale approach to mechanical behavior of polymeric nanocomposites: an application of T1ρ(¹³ C) relaxation experiments at variable spin-locking fields. <i>Polimery</i> , 2014, 59, 662-666.	0.7	1
124	Epoxy-silica hybrids by nonaqueous sol-gel process. <i>Polymer</i> , 2013, 54, 6271-6282.	3.8	45
125	Theoretical predictions of the two-dimensional solid-state NMR spectra: A case study of the ¹³ C- ¹ H correlations in metergoline. <i>Chemical Physics Letters</i> , 2013, 586, 56-60.	2.6	18
126	Characterizing Crystal Disorder of Trospium Chloride: A Comprehensive, ¹³ C CP/MAS NMR, DSC, FTIR, and XRPD Study. <i>Journal of Pharmaceutical Sciences</i> , 2013, 102, 1235-1248.	3.3	15

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127	The comparison of approaches to the solid-state NMR-based structural refinement of vitamin B1 hydrochloride and of its monohydrate. <i>Chemical Physics Letters</i> , 2013, 555, 135-140.	2.6	20
128	[Rh(cycloolefin)(acac)] complexes as catalysts of polymerization of aryl- and alkylacetylenes: Influence of cycloolefin ligand and reaction conditions. <i>Journal of Molecular Catalysis A</i> , 2013, 378, 57-66.	4.8	28
129	Characterization of solid polymer dispersions of active pharmaceutical ingredients by ¹⁹ F MAS NMR and factor analysis. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 100, 59-66.	3.9	26
130	Humus accumulation, humification, and humic acid composition in soils of two post-mining chronosequences after coal mining. <i>Journal of Soils and Sediments</i> , 2013, 13, 491-500.	3.0	56
131	²⁷ Al Magic Angle Spinning Nuclear Magnetic Resonance (MAS-NMR) Analyses Applied to Historical Mortars. <i>International Journal of Architectural Heritage</i> , 2013, 7, 153-164.	3.1	2
132	New Hypercrosslinked Partly Conjugated Networks with Tunable Composition by Spontaneous Polymerization of Ethynylpyridines with Bis(bromomethyl)arenes: Synthesis, Spectral Properties, and Activity in CO ₂ Capture. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 2856-2866.	2.2	9
133	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
134	Factor analysis of ²⁷ Al MAS NMR spectra for identifying nanocrystalline phases in amorphous geopolymers. <i>Magnetic Resonance in Chemistry</i> , 2013, 51, 734-742.	1.9	19
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