Jiri Brus

List of Publications by Year
in descending order

245 papers	5,886 citations	70961 41 h-index	128067 60 g-index
249 all docs	249 docs citations	249 times ranked	6626 citing authors

#	Article	IF	Citations
1	Structural dependence of crystallization in phosphorusâ€containing sodium aluminoborosilicate glasses. Journal of the American Ceramic Society, 2022, 105, 2556-2574.	1.9	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. Molecules, 2022, 27, 679.	1.7	2
3	Microporous polymers prepared from non-porous hyper-cross-linked networks by removing covalently attached template molecules. Microporous and Mesoporous Materials, 2022, 330, 111636.	2.2	6
4	Formation and local structure of framework Al Lewis sites in beta zeolites. Journal of Chemical Physics, 2022, 156, 104702.	1.2	2
5	Phase Separation and pH-Dependent Behavior of Four-Arm Star-Shaped Porphyrin-PNIPAM₄ Conjugates. Macromolecules, 2022, 55, 2109-2122.	2.2	6
6	A computational inspection of the dissociation energy of mid-sized organic dimers. Journal of Chemical Physics, 2022, 156, .	1.2	5
7	The atomic-level structure of bandgap engineered double perovskite alloys Cs₂AgIn_{1â”x}Fe_xCl₆. Chemical Science, 2021, 12, 1730-1735.	3.7	34
8	Oxidative addition of cyanogen bromide to C,N-chelated and Lappert's stannylenes. Dalton Transactions, 2021, 50, 5519-5529.	1.6	3
9	Copolymer chain formation of 2-oxazolines by in situ¹H-NMR spectroscopy: dependence of sequential composition on substituent structure and monomer ratios. RSC Advances, 2021, 11, 10468-10478.	1.7	3
10	Thermoset-thermoplastic-ionic liquid ternary hybrids as novel functional polymer materials. Polymer, 2021, 218, 123507.	1.8	14
11	Critical role of additive-induced molecular interaction on the operational stability of perovskite light-emitting diodes. Joule, 2021, 5, 618-630.	11.7	99
12	Garnet-Poly(Îµ-caprolactone-co-trimethylene carbonate) Polymer-in-Ceramic Composite Electrolyte for All-Solid-State Lithium-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 2531-2542.	2.5	32
13	A Volumetric Analysis of the 1H NMR Chemical Shielding in Supramolecular Systems. International Journal of Molecular Sciences, 2021, 22, 3333.	1.8	2
14	Microporous Hyperâ€Crossâ€Linked Polymers with High and Tuneable Content of Pyridine Units: Synthesis and Application for Reversible Sorption of Water and Carbon Dioxide. Macromolecular Rapid Communications, 2021, 42, e2100209.	2.0	7
15	Polynorbornene-Based Polyelectrolytes with Covalently Attached Metallacarboranes: Synthesis, Characterization, and Lithium-Ion Mobility. Macromolecules, 2021, 54, 6867-6877.	2.2	4
16	On the Many-Body Expansion of an Interaction Energy of Some Supramolecular Halogen-Containing Capsules. Molecules, 2021, 26, 4431.	1.7	1
17	Structural Changes of Sodium Warfarin in Tablets Affecting the Dissolution Profiles and Potential Safety of Generic Substitution. Pharmaceutics, 2021, 13, 1364.	2.0	0
18	In-situ measurement of mechanical properties and dimensional changes of preceramic thermosets during their pyrolysis conversion to ceramics using thermomechanical analysis. Ceramics International, 2021, 47, 23285-23294.	2.3	1

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19	Manipulating crystallization dynamics through chelating molecules for bright perovskite emitters. Nature Communications, 2021, 12, 4831.	5.8	56
20	Cinchonine-based organosilica materials as heterogeneous catalysts of enantioselective alkene dihydroxylation. Journal of Catalysis, 2021, 404, 493-500.	3.1	0
21	Reconstructing Reliable Powder Patterns from Spikelets (Q)CPMG NMR Spectra: Simplification of UWNMR Crystallography Analysis. Molecules, 2021, 26, 6051.	1.7	3
22	Modeling the Structure of Crystalline Alamethicin and Its NMR Chemical Shift Tensors. Antibiotics, 2021, 10, 1265.	1.5	0
23	A guest-assisted molecular-organization approach for >17% efficiency organic solar cells using environmentally friendly solvents. Nature Energy, 2021, 6, 1045-1053.	19.8	230
24	Probing the 91Zr NMR parameters in the solid state by a combination of DFT calculations and experiments. Chemical Physics Letters, 2020, 738, 136855.	1.2	0
25	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.	3.8	27
26	Effect of structural features of polypyrrole (PPy) on electrical conductivity reflected on 13C ssNMR parameters. Synthetic Metals, 2020, 259, 116250.	2.1	11
27	Formation of Layered Proton-Conducting Zirconium and Titanium Organophosphonates by Topotactic Reaction: Physicochemical Properties, Proton Dynamics, and Atomic-Resolution Structure. Inorganic Chemistry, 2020, 59, 505-513.	1.9	5
28	Chitosan-glucan complex hollow fibers reinforced collagen wound dressing embedded with aloe vera. Part I: Preparation and characterization. Carbohydrate Polymers, 2020, 230, 115708.	5.1	51
29	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.	4.0	23
30	Kinetics of pozzolanic reaction and carbonation in ceramic â€“ lime system: Thermogravimetry and solid-state NMR spectroscopy study. Journal of Building Engineering, 2020, 32, 101729.	1.6	5
31	Polymorphic Forms of Valinomycin Investigated by NMR Crystallography. International Journal of Molecular Sciences, 2020, 21, 4907.	1.8	8
32	Highly conducting 1-D polypyrrole prepared in the presence of safranin. Journal of Materials Chemistry C, 2020, 8, 12140-12147.	2.7	22
33	Effect of Alkali-Free Synthesis and Post-Synthetic Treatment on Acid Sites in Beta Zeolites. Molecules, 2020, 25, 3434.	1.7	4
34	Microporous hyper-cross-linked polyacetylene networks: Covalent structure and texture modification by reversible Schiff-base chemistry. European Polymer Journal, 2020, 136, 109914.	2.6	4
35	Gallium Species Incorporated into MOF Structure: Insight into the Formation of a 3D Polycrystalline Galliumâ€“Imidazole Framework. Inorganic Chemistry, 2020, 59, 13933-13941.	1.9	3
36	Nearâ€Infrared Lightâ€Responsive Cuâ€Doped Cs₂AgBiBr₆. Advanced Functional Materials, 2020, 30, 2005521.	7.8	56

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37	Parametrizing the Spatial Dependence of 1H NMR Chemical Shifts in Ï€-Stacked Molecular Fragments. International Journal of Molecular Sciences, 2020, 21, 7908.	1.8	5
38	Magnetizing lead-free halide double perovskites. Science Advances, 2020, 6, .	4.7	56
39	Hyaluronan biofilms reinforced with partially deacetylated chitin nanowhiskers: Extraction, fabrication, in-vitro and antibacterial properties of advanced nanocomposites. Carbohydrate Polymers, 2020, 235, 115951.	5.1	21
40	Uncovering lead formate crystallization in oil-based paintings. Dalton Transactions, 2020, 49, 5044-5054.	1.6	12
41	Ductile/brittle PA6/PS system: Effect of carbon nanoplateletsâ€modified interface on performance. Journal of Applied Polymer Science, 2020, 137, 49100.	1.3	2
42	Perovskite-molecule composite thin films for efficient and stable light-emitting diodes. Nature Communications, 2020, 11, 891.	5.8	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. Crystal Growth and Design, 2020, 20, 1706-1715.	1.4	7
44	(1S,2S)-Cyclohexane-1,2-diamine-based Organosilane Fibres as a Powerful Tool Against Pathogenic Bacteria. Polymers, 2020, 12, 206.	2.0	5
45	Novel chapter in hybrid materials: One-pot synthesis of purely organosilane fibers. Polymer, 2020, 190, 122234.	1.8	5
46	Monitoring the Site-Specific Solid-State NMR Data in Oligopeptides. International Journal of Molecular Sciences, 2020, 21, 2700.	1.8	4
47	Impact of Hydrogen Bonds Limited Dipolar Disorder in High-k Polymer Gate Dielectric on Charge Carrier Transport in OFET. Polymers, 2020, 12, 826.	2.0	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. Crystal Growth and Design, 2019, 19, 4625-4631.	1.4	11
49	Novel Cerium Bisphosphinate Coordination Polymer and Unconventional Metalâ€“Organic Framework. Crystals, 2019, 9, 303.	1.0	8
50	Unraveling and Mitigating the Storage Instability of Fluoroethylene Carbonate-Containing LiPF₆ Electrolytes To Stabilize Lithium Metal Anodes for High-Temperature Rechargeable Batteries. ACS Applied Energy Materials, 2019, 2, 4925-4935.	2.5	49
51	Interaction Pathways and Structureâ€“Chemical Transformations of Alginate Gels in Physiological Environments. Biomacromolecules, 2019, 20, 4158-4170.	2.6	42
52	Hydration of Ordinary Portland Cement in Presence of Lead Sorbed on Ceramic Sorbent. Materials, 2019, 12, 19.	1.3	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. Soft Matter, 2019, 15, 752-769.	1.2	26
54	Waste Brick Dust as Potential Sorbent of Lead and Cesium from Contaminated Water. Materials, 2019, 12, 1647.	1.3	8

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55	Exploring Accuracy Limits of Predictions of the 1H NMR Chemical Shielding Anisotropy in the Solid State. Molecules, 2019, 24, 1731.	1.7	11
56	Role of p-Benzoquinone in the Synthesis of a Conducting Polymer, Polyaniline. ACS Omega, 2019, 4, 7128-7139.	1.6	22
57	The addition of Grignard reagents to carbodiimides. The synthesis, structure and potential utilization of magnesium amidinates. Dalton Transactions, 2019, 48, 5335-5342.	1.6	12
58	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.	0.9	10
59	Synthesis of hyper-cross-linked microporous poly(phenylacetylene)s having aldehyde and other groups and their chemisorption and physisorption ability. European Polymer Journal, 2019, 114, 279-286.	2.6	9
60	Fibrous electrocatalytic materials based on carbon/copper/copper phosphides for effective hydrogen evolution. Applied Surface Science, 2019, 479, 70-76.	3.1	10
61	Fluoroethylene Carbonate Containing Electrolytes: Origin of Poor Shelf Life and Its Mitigation. ECS Meeting Abstracts, 2019, , .	0.0	0
62	Porous Heat-Treated Polyacrylonitrile Scaffolds for Bone Tissue Engineering. ACS Applied Materials & Interfaces, 2018, 10, 8496-8506.	4.0	20
63	Biopolymer strategy for the treatment of Wilson's disease. Journal of Controlled Release, 2018, 273, 131-138.	4.8	12
64	On the key role of SiO2@POSS hybrid filler in tailoring networking and interfaces in rubber nanocomposites. Polymer Testing, 2018, 65, 429-439.	2.3	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. Crystal Growth and Design, 2018, 18, 3616-3625.	1.4	22
66	Homoâ€•and Copolycyclotrimerization of Aromatic Internal Diynes Catalyzed with Co₂(CO)₈: A Facile Route to Microporous Photoluminescent Polyphenylenes with Hyperbranched or Crosslinked Architecture. Macromolecular Rapid Communications, 2018, 39, 1700518.	2.0	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. ACS Macro Letters, 2018, 7, 7-10.	2.3	15
68	NMR Crystallography of the Polymorphs of Metergoline. Crystals, 2018, 8, 378.	1.0	15
69	Hyperâ€Crossâ€Linked Polyacetyleneâ€Type Microporous Networks Decorated with Terminal Ethynyl Groups as Heterogeneous Acid Catalysts for Acetalization and Esterification Reactions. Chemistry - A European Journal, 2018, 24, 14742-14749.	1.7	23
70	Fluorophilicâ€“Lipophilicâ€“Hydrophilic Poly(2-oxazoline) Block Copolymers as MRI Contrast Agents: From Synthesis to Self-Assembly. Macromolecules, 2018, 51, 6047-6056.	2.2	18
71	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.	2.2	18
72	The Nature of Chemical Bonding in Lewis Adducts as Reflected by ²⁷Al NMR Quadrupolar Coupling Constant: Combined Solid-State NMR and Quantum Chemical Approach. Inorganic Chemistry, 2018, 57, 7428-7437.	1.9	7

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73	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.	1.5	14
74	Theoretical Investigations Into the Variability of the 15N Solid-State NMR Parameters Within an Antimicrobial Peptide Ampullosporin A. Physiological Research, 2018, 67, S349-S356.	0.4	2
75	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.	2.2	4
76	Synthesis of conductive doubly filled poly(N-isopropylacrylamide)-polyaniline-SiO2 hydrogels. Sensors and Actuators B: Chemical, 2017, 244, 616-634.	4.0	34
77	Unexpectedly Facile Rh(I) Catalyzed Polymerization of Ethynylbenzaldehyde Type Monomers: Synthesis of Polyacetylenes Bearing Reactive and Easy Transformable Pendant Carbaldehyde Groups. Macromolecular Rapid Communications, 2017, 38, 1600792.	2.0	5
78	Poly(N-isopropylacrylamide)-SiO2 nanocomposites interpenetrated by starch: Stimuli-responsive hydrogels with attractive tensile properties. European Polymer Journal, 2017, 88, 349-372.	2.6	32
79	Describing the anisotropic 133Cs solid state NMR interactions in cesium chromate. Chemical Physics Letters, 2017, 684, 8-13.	1.2	4
80	Structure and Dynamics of Alginate Gels Cross-Linked by Polyvalent Ions Probed via Solid State NMR Spectroscopy. Biomacromolecules, 2017, 18, 2478-2488.	2.6	115
81	Rational design of cement composites containing pozzolanic additions. Construction and Building Materials, 2017, 148, 411-418.	3.2	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. Molecular Pharmaceutics, 2017, 14, 2070-2078.	2.3	23
83	A novel insight into the origin of toughness in polypropyleneâ€“calcium carbonate microcomposites: Multivariate analysis of ss-NMR spectra. Polymer, 2017, 132, 106-113.	1.8	5
84	Unexpected Crystallization Patterns of Zinc Boron Imidazolate Framework ZBIFâ€1: NMR Crystallography of Integrated Metalâ€“Organic Frameworks. ChemPhysChem, 2017, 18, 3576-3582.	1.0	6
85	Retention of dead standing plant biomass (marcescence) increases subsequent litter decomposition in the soil organic layer. Plant and Soil, 2017, 418, 571-579.	1.8	22
86	Novel triphilic block copolymers based on poly(2-methyl-2-oxazoline)â€“blockâ€“poly(2-octyl-2-oxazoline) with different terminal perfluoroalkyl fragments: Synthesis and self-assembly behaviour. European Polymer Journal, 2017, 88, 645-655.	2.6	20
87	Synthesis and Characterization of New 3-(4-Arylpiperazin-1-yl)-2-hydroxypropyl 4-Propoxybenzoates and Their Hydrochloride Salts. Molecules, 2016, 21, 707.	1.7	6
88	Ionic Ï€-Conjugated Polymer Networks by Catalyst-Free Polymerization, Photoluminescence and Gas Sorption Behavior. Macromolecular Chemistry and Physics, 2016, 217, 1886-1898.	1.1	2
89	On the predictions of the 11B solid state NMR parameters. Chemical Physics Letters, 2016, 655-656, 66-70.	1.2	12
90	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.	2.3	16

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91	The plane-wave DFT investigations into the structure and the 11B solid-state NMR parameters of lithium fluorooxoborates. Chemical Physics Letters, 2016, 666, 22-27.	1.2	4
92	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.	1.4	23
93	Local Structure of Cationic Sites in Dehydrated Zeolites Inferred from 27Al Magic-Angle Spinning NMR and Density Functional Theory Calculations. A Study on Li-, Na-, and K-Chabazite. Journal of Physical Chemistry C, 2016, 120, 14216-14225.	1.5	18
94	Modified Crystalline Structure of Silane-Crosslinked Polyethylene in the Proximity of Nanodiamonds. Macromolecular Materials and Engineering, 2016, 301, 441-450.	1.7	0
95	Polyaniline/polybenzimidazole blends: Characterisation of its physico-chemical properties and gas separation behaviour. European Polymer Journal, 2016, 77, 98-113.	2.6	28
96	Advances in 27Al MAS NMR Studies of Geopolymers. Annual Reports on NMR Spectroscopy, 2016, 88, 79-147.	0.7	35
97	Use of waste ceramics in adsorption technologies. Applied Clay Science, 2016, 134, 145-152.	2.6	21
98	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.	1.6	13
99	Biodegradable system for drug delivery of hydrolytically labile azanucleoside drugs. Biomedical Papers of the Medical Faculty of the University Palacký, Olomouc, Czechoslovakia, 2016, 160, 222-230.	0.2	2
100	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.	7.2	73
101	â€˜Wax bloomâ€™ on beeswax cultural heritage objects: Exploring the causes of the phenomenon. Magnetic Resonance in Chemistry, 2015, 53, 509-513.	1.1	7
102	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.	1.1	6
103	Oxidative Additions of Homoleptic Tin(II) Amidinate. Organometallics, 2015, 34, 606-615.	1.1	13
104	Origin of toughness in Î²-polypropylene: The effect of molecular mobility in the amorphous phase. Polymer, 2015, 60, 107-114.	1.8	17
105	Multiscale approach to the morphology, structure, and segmental dynamics of complex degradable aliphatic polyurethanes. Journal of Applied Polymer Science, 2015, 132, .	1.3	14
106	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.	2.2	23
107	Chain-growth copolymerization of functionalized ethynylarenes with 1,4-diethynylbenzene and 4,4â€²-diethynylbiphenyl into conjugated porous networks. European Polymer Journal, 2015, 67, 252-263.	2.6	12
108	Sorption of enantiomers and alcohols into NafionÂ® and the role of air humidity in the experimental data evaluation. Separation and Purification Technology, 2015, 144, 232-239.	3.9	3

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109	Preparation of silicon oxynitrocarbide (SiONC) and of its ceramic-fibre-composites via hydrosilylation/radical polymerization/pyrolysis. Journal of Non-Crystalline Solids, 2015, 423-424, 9-17.	1.5	2
110	RAFT of sulfobetaine for modifying poly(glycidyl methacrylate) microspheres to reduce nonspecific protein adsorption. Journal of Polymer Science Part A, 2015, 53, 2273-2284.	2.5	6
111	NMR crystallography of monovalent cations in inorganic matrixes: Li+ siting and the local structure of Li+ sites in ferrierites. Chemical Communications, 2015, 51, 8962-8965.	2.2	14
112	Methodological comparison for quantitative analysis of fossil and recently derived carbon in mine soils with high content of aliphatic kerogen. Organic Geochemistry, 2015, 89-90, 14-22.	0.9	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. International Journal of Pharmaceutics, 2015, 478, 464-475.	2.6	9
114	Structural Diversity of Solid Dispersions of Acetylsalicylic Acid As Seen by Solid-State NMR. Molecular Pharmaceutics, 2014, 11, 516-530.	2.3	57
115	Post polymerisation hypercrosslinking of styrene/divinylbenzene poly(HIPE)s: Creating micropores within macroporous polymer. Polymer, 2014, 55, 410-415.	1.8	54
116	Transitionâ€Metalâ€Catalyzed Chainâ€Growth Polymerization of 1,4â€Diethynylbenzene into Microporous Crosslinked Poly(phenylacetylene)s: the Effect of Reaction Conditions. Macromolecular Chemistry and Physics, 2014, 215, 1855-1869.	1.1	25
117	An electrorheological investigation of PVB solutions in connection with their electrospinning qualities. Polymer Testing, 2014, 39, 115-121.	2.3	17
118	A comprehensive study of soft magnetic materials based on FeSi spheres and polymeric resin modified by silica nanorods. Materials Chemistry and Physics, 2014, 147, 649-660.	2.0	43
119	Dynamic scaling and kinetic roughening of poly(ethylene) islands grown by vapor phase deposition. Thin Solid Films, 2014, 565, 249-260.	0.8	10
120	Control over the Self-Assembly and Dynamics of Metallacarborane Nanorotors by the Nature of the Polymer Matrix: A Solid-State NMR Study. Macromolecules, 2014, 47, 6343-6354.	2.2	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. Chemical Physics Letters, 2014, 608, 334-339.	1.2	20
122	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.	1.5	18
123	Multiscale approach to mechanical behavior of polymeric nanocomposites: an application of T1p(13C) relaxation experiments at variable spin-locking fields. Polimery, 2014, 59, 662-666.	0.4	1
124	Epoxy-silica hybrids by nonaqueous solâ€“gel process. Polymer, 2013, 54, 6271-6282.	1.8	45
125	Theoretical predictions of the two-dimensional solid-state NMR spectra: A case study of the 13Câ€“1H correlations in metergoline. Chemical Physics Letters, 2013, 586, 56-60.	1.2	18
126	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.	1.6	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. Chemical Physics Letters, 2013, 555, 135-140.	1.2	20
128	[Rh(cycloolefin)(acac)] complexes as catalysts of polymerization of aryl- and alkylacetylenes: Influence of cycloolefin ligand and reaction conditions. Journal of Molecular Catalysis A, 2013, 378, 57-66.	4.8	28
129	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.	2.0	26
130	Humus accumulation, humification, and humic acid composition in soils of two post-mining chronosequences after coal mining. Journal of Soils and Sediments, 2013, 13, 491-500.	1.5	56
131	27Al Magic Angle Spinningâ€"Nuclear Magnetic Resonance (MAS-NMR) Analyses Applied to Historical Mortars. International Journal of Architectural Heritage, 2013, 7, 153-164.	1.7	2
132	New Hyperâ€Crosslinked Partly Conjugated Networks with Tunable Composition by Spontaneous Polymerization of Ethynylpyridines with Bis(bromomethyl)arenes: Synthesis, Spectral Properties, and Activity in CO₂ Capture. Macromolecular Chemistry and Physics, 2013, 214, 2856-2866.	1.1	9
133	Thermalâ€Induced Transformation of Polydopamine Structures: An Efficient Route for the Stabilization of the Polydopamine Surfaces. Macromolecular Chemistry and Physics, 2013, 214, 499-507.	1.1	52
134	Factor analysis of ²⁷Al MAS NMR spectra for identifying nanocrystalline phases in amorphous geopolymers. Magnetic Resonance in Chemistry, 2013, 51, 734-742.	1.1	19
135	Reactivity of lithium n-butyl amidinates towards group 14 metal(ii) chlorides providing series of hetero- and homoleptic tetrylenes. Dalton Transactions, 2012, 41, 5010.	1.6	40
136	Insights into the Structural Transformations of Aluminosilicate Inorganic Polymers: A Comprehensive Solid-State NMR Study. Journal of Physical Chemistry C, 2012, 116, 14627-14637.	1.5	33
137	Novel â€œsoftâ€•biodegradable nanoparticles prepared from aliphatic based monomers as a potential drug delivery system. Soft Matter, 2012, 8, 4343.	1.2	51
138	Polyacetyleneâ€Type Networks Prepared by Coordination Polymerization of Diethynylarenes: New Type of Microporous Organic Polymers. Macromolecular Rapid Communications, 2012, 33, 158-163.	2.0	33
139	On the Structure of Polymeric Composite of Metallacarborane with Poly(ethylene oxide). Macromolecules, 2011, 44, 3847-3855.	2.2	36
140	The multifunctional role of ionic liquids in the formation of epoxy-silica nanocomposites. Journal of Materials Chemistry, 2011, 21, 13801.	6.7	44
141	Unprecedented Ï€â‹¯Ï€ interaction between an aromatic ring and a pseudo-aromatic ring formed through intramolecular H-bonding in a bidentate Schiff base ligand: crystal structure and DFT calculations. Physical Chemistry Chemical Physics, 2011, 13, 15845.	1.3	18
142	Low-molecular-weight chitosans: Preparation and characterization. Carbohydrate Polymers, 2011, 86, 1077-1081.	5.1	34
143	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.	2.6	56
144	¹³C Chemical Shift Tensors in Hypoxanthine and 6-Mercaptopurine: Effects of Substitution, Tautomerism, and Intermolecular Interactions. Journal of Physical Chemistry A, 2010, 114, 1985-1995.	1.1	33

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145	Synthesis and characterization of new zirconium 4-sulfophenylphosphonates. Solid State Ionics, 2010, 181, 705-713.	1.3	43
146	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.	1.2	8
147	Simvastatin: structure solution of two new low-temperature phases from synchrotron powder diffraction and ss-NMR. Structural Chemistry, 2010, 21, 511-518.	1.0	24
148	Synthesis and Properties of Hyperbranched Polyimides Combined with Silica. Macromolecular Symposia, 2010, 295, 88-93.	0.4	10
149	Structural and Surface Properties of Novel Polyurethane Films. Materials and Manufacturing Processes, 2009, 24, 1185-1189.	2.7	24
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