

Jiri Dybal

List of Publications by Year in descending order

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210
papers

4,326
citations

145106

33
h-index

190340

53
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213
all docs

213
docs citations

213
times ranked

4218
citing authors

#	ARTICLE	IF	CITATIONS
1	Biodegradation of LDPE_TPS blends under controlled composting conditions. Polymer Bulletin, 2023, 80, 3331-3357.	1.7	3
2	Self-Healing Epoxy and Reversible Diels-Alder Based Interpenetrating Networks. Macromolecular Materials and Engineering, 2021, 306, 2000474.	1.7	16
3	Enhanced Ordering of Block Copolymer Thin Films upon Addition of Magnetic Nanoparticles. ACS Applied Materials & Interfaces, 2021, 13, 9195-9205.	4.0	10
4	Formation of graphene oxide-based ordered structures in epoxy: effect of grafted polymer chains. Polymer-Plastics Technology and Materials, 2021, 60, 1084-1097.	0.6	2
5	Pro-oxidant activity of biocompatible catechin stabilizer during photooxidation of polyolefins. Polymer Degradation and Stability, 2021, 193, 109735.	2.7	2
6	Monolithic nanocomposite hydrogels with fast dual T- and pH- stimuli responsiveness combined with high mechanical properties. Journal of Materials Research and Technology, 2021, 15, 6079-6097.	2.6	6
7	Non-covalent interactions of imidazolium-based ionic liquids with model pyrrolidones revealed by FTIR spectroscopy and quantum chemical model calculations. Journal of Molecular Liquids, 2020, 312, 113445.	2.3	2
8	Thermoplastic Starch Composites With Titanium Dioxide and Vancomycin Antibiotic: Preparation, Morphology, Thermomechanical Properties, and Antimicrobial Susceptibility Testing. Frontiers in Materials, 2020, 7, .	1.2	10
9	Synergistic effects in Methylcellulose/Hydroxyethylcellulose blend: Influence of components ratio and graphene oxide. Carbohydrate Polymers, 2020, 236, 116077.	5.1	3
10	Ductile/brittle PA6/PS system: Effect of carbon nanoplatelets-modified interface on performance. Journal of Applied Polymer Science, 2020, 137, 49100.	1.3	2
11	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
12	Nano-modified epoxy: the effect of GO-based complex structures on mechanical performance. RSC Advances, 2020, 10, 11357-11364.	1.7	6
13	Prooxidant activity of phenolic stabilizers in polyolefins during accelerated photooxidation. Polymer Degradation and Stability, 2019, 166, 307-324.	2.7	10
14	Control of Gelation and Properties of Reversible Diels-Alder Networks: Design of a Self-Healing Network. Polymers, 2019, 11, 930.	2.0	17
15	Role of p-Benzoquinone in the Synthesis of a Conducting Polymer, Polyaniline. ACS Omega, 2019, 4, 7128-7139.	1.6	22
16	Non-covalent interactions in bmimCl/co-solvent mixtures: A FTIR spectroscopy and computational study. Journal of Molecular Liquids, 2019, 285, 688-696.	2.3	9
17	Nano-modified HDPE/PA6 microfibrillar composites: Effect of aminated graphite platelets coupling. Journal of Applied Polymer Science, 2019, 136, 47660.	1.3	3
18	Thermoplastic Starch Composites Filled With Isometric and Elongated TiO2-Based Nanoparticles. Frontiers in Materials, 2019, 6, .	1.2	6

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19	Biodegradability of blends based on aliphatic polyester and thermoplastic starch. <i>Chemical Papers</i> , 2019, 73, 1121-1134.	1.0	15
20	Structure evolution during order–disorder transitions in aliphatic polycarbonate based polyurethanes. Self-healing polymer. <i>Chemical Engineering Journal</i> , 2019, 357, 611-624.	6.6	23
21	Solvent-free, catalyst-free aza-Michael addition of cyclohexylamine to diethyl maleate: Reaction mechanism and kinetics. <i>Tetrahedron</i> , 2018, 74, 58-67.	1.0	33
22	Thermally Induced Protonation of Conducting Polyaniline Film by Dibutyl Phosphite Conversion to Phosphate. <i>Journal of Physical Chemistry A</i> , 2018, 122, 9492-9497.	1.1	2
23	The interaction of thin polyaniline films with various H–phosphonates: Spectroscopy and quantum chemical calculations. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46728.	1.3	10
24	Intermolecular Interactions in <i>N,N</i> -Dimethylacetamide without and with LiCl Studied by Infrared Spectroscopy and Quantum Chemical Model Calculations. <i>Journal of Physical Chemistry B</i> , 2018, 122, 8921-8930.	1.2	14
25	UV degradation of styrene-butadiene rubber versus high density poly(ethylene) in marine conditions studied by infrared spectroscopy, micro indentation, and electron spin resonance imaging. <i>Polymer Degradation and Stability</i> , 2018, 156, 132-143.	2.7	15
26	Facile preparation of biocompatible poly (lactic acid)-reinforced poly(μ -caprolactone) fibers via graphite nanoplatelets -aided melt spinning. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 84, 108-115.	1.5	9
27	Pro-oxidant activity of α -tocopherol during photooxidative degradation of polyolefins. ESRI and IR microspectroscopy studies. <i>Polymer Degradation and Stability</i> , 2017, 138, 55-71.	2.7	19
28	1,3-Alternate-25,27-bis(1-octyloxy)calix[4]arene-crown-6 as an extraordinarily strong receptor for the univalent silver cation. <i>Monatshefte für Chemie</i> , 2017, 148, 1379-1383.	0.9	0
29	Thermoresponsive behavior of block copolymers of PEO and PNIPAm with different architecture in aqueous solutions: A study by NMR, FTIR, DSC and quantum-chemical calculations. <i>European Polymer Journal</i> , 2017, 94, 471-483.	2.6	16
30	Improvement of performance of a ductile/brittle polymer system by graphite nanoplatelets: effect of component coupling. <i>RSC Advances</i> , 2017, 7, 37331-37339.	1.7	4
31	In Vitro Bioactivity Test of Real Dental Implants According to ISO 23317. <i>International Journal of Oral and Maxillofacial Implants</i> , 2017, 32, 1221-1230.	0.6	6
32	Temperature–Induced Phase Transition in Aqueous Solutions of Poly(<i>N</i> -isopropylacrylamide)–Based Block Copolymer. <i>Macromolecular Symposia</i> , 2016, 369, 92-96.	0.4	1
33	New type of gel polymer electrolytes based on selected methacrylates and their characteristics. Part II. Fluorinated Co-polymers. <i>Electrochimica Acta</i> , 2016, 208, 211-224.	2.6	3
34	Interaction of polyaniline film with dibutyl phosphonate versus phosphite: Enhanced thermal stability. <i>Polymer Degradation and Stability</i> , 2016, 134, 357-365.	2.7	12
35	Structural Transitions of 1-Butyl-3-methylimidazolium Chloride/Water Mixtures Studied by Raman and FTIR Spectroscopy and WAXS. <i>Crystal Growth and Design</i> , 2016, 16, 1958-1967.	1.4	28
36	Additive Effects on Phase Transition and Interactions in Poly(vinyl methyl ether) Solutions. <i>Polymers</i> , 2015, 7, 2572-2583.	2.0	13

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37	The effect of urea and urea-modified halloysite on performance of PCL. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 120, 1283-1291.	2.0	14
38	Poly(<i>N</i> -isopropylacrylamide)â€‘clay based hydrogels controlled by the initiating conditions: evolution of structure and gel formation. <i>Soft Matter</i> , 2015, 11, 9291-9306.	1.2	58
39	Fractional complexation in a miscible polymer blend. <i>Calorimetry and size exclusion chromatography. Polymer International</i> , 2014, 63, 1406-1413.	1.6	1
40	Heterogeneity of accelerated photooxidation in commodity polymers stabilized by HAS: ESRI, IR, and MH study. <i>Polymer Degradation and Stability</i> , 2014, 103, 11-25.	2.7	24
41	The effect of micellization-induced deprotonation on the associative behavior of a carboxyl modified Pluronic P85. <i>Soft Matter</i> , 2014, 10, 8011-8022.	1.2	2
42	Temperatureâ€‘induced Phase Separation and Hydration in Aqueous Polymer Solutions Studied by NMR and IR Spectroscopy: Comparison of Poly(<i>N</i> -vinylcaprolactam) and Acrylamideâ€‘Based Polymers. <i>Macromolecular Symposia</i> , 2014, 336, 39-46.	0.4	18
43	The material combining conducting polymer and ionic liquid: Hydrogen bonding interactions between polyaniline and imidazolium salt. <i>Synthetic Metals</i> , 2014, 197, 168-174.	2.1	34
44	Quantification of structural changes of UHMWPE components in total joint replacements. <i>BMC Musculoskeletal Disorders</i> , 2014, 15, 109.	0.8	15
45	Fourier-transform infrared spectroscopic study of a fractional-complexed polymer blend. <i>European Polymer Journal</i> , 2014, 59, 200-207.	2.6	4
46	Detection of Aniline Oligomers on Polyanilineâ€‘Gold Interface using Resonance Raman Scattering. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 942-950.	4.0	44
47	NMR, FTIR and DFT study of the interaction of the benzoate anion with meso-octamethylcalix[4]pyrrole. <i>Chemical Physics Letters</i> , 2013, 561-562, 42-45.	1.2	3
48	Interaction of the thallium cation with 1,3-alternate-25,27-bis(1-octyloxy)calix[4]arene-crown-6: Experimental and theoretical study. <i>Journal of Molecular Structure</i> , 2013, 1042, 73-77.	1.8	5
49	The effect of halloysite modification combined with in situ matrix modifications on the structure and properties of polypropylene/halloysite nanocomposites. <i>EXPRESS Polymer Letters</i> , 2013, 7, 471-479.	1.1	50
50	Effect of an organoclay on the reaction-induced phase-separation in a dynamically asymmetric epoxy/PCL system. <i>EXPRESS Polymer Letters</i> , 2013, 7, 1012-1019.	1.1	8
51	Premicellar interaction of PEOâ€‘PPOâ€‘PEO triblock copolymers with partially hydrophobic alcohols: NMR study. <i>Magnetic Resonance in Chemistry</i> , 2013, 51, 275-282.	1.1	2
52	Interaction of cesium ions with calix[2]furan[4]pyrrole and its fluoride complex. <i>Chemical Physics Letters</i> , 2012, 541, 27-31.	1.2	1
53	Activation of cellulose by 1,4-dioxane for dissolution in <i>N,N</i> -dimethylacetamide/LiCl. <i>Cellulose</i> , 2012, 19, 1893-1906.	2.4	17
54	Temperature-induced phase separation and hydration in poly(<i>N</i> -vinylcaprolactam) aqueous solutions: a study by NMR and IR spectroscopy, SAXS, and quantum-chemical calculations. <i>Soft Matter</i> , 2012, 8, 6110.	1.2	84

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55	Ion vs. ion pair receptor: NMR and DFT study of the interaction of Thallium and Cesium ions and ion pairs with meso-octamethylcalix[4]pyrrole. <i>Chemical Physics</i> , 2012, 400, 19-28.	0.9	13
56	Interaction of Cesium Ions with Calix[4]arene-bis(<i>n</i> -octylbenzo-18-crown-6): NMR and Theoretical Study. <i>Journal of Physical Chemistry B</i> , 2011, 115, 7578-7587.	1.2	131
57	Micellization-induced deprotonation of thermoresponsive surfactant CAE-85 – the telechelic carboxylic group derivative of Pluronic P85. <i>Vibrational Spectroscopy</i> , 2011, 57, 300-305.	1.2	5
58	Cellulose-based graft copolymers with controlled architecture prepared in a homogeneous phase. <i>Journal of Polymer Science Part A</i> , 2011, 49, 4353-4367.	2.5	25
59	Interactions in a blend of two polymers greatly differing in glass transition temperature. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011, 49, 1031-1040.	2.4	4
60	Interaction of hydrated protons with octylphenyl-diisobutylcarbamoylmethyl phosphine oxide (CMPO): NMR and theoretical study. <i>Magnetic Resonance in Chemistry</i> , 2011, 49, 617-626.	1.1	1
61	Hydration modes of an amphiphilic molecule 2: NMR, FTIR and theoretical study of the interactions in the system water-1,2-dimethoxyethane. <i>Chemical Physics</i> , 2011, 382, 104-112.	0.9	13
62	Stimuli-Responsive Polymers in Solution Investigated by NMR and Infrared Spectroscopy. <i>Macromolecular Symposia</i> , 2011, 303, 17-25.	0.4	7
63	Extraction and DFT study on the complexation of Mg ²⁺ with valinomycin. <i>Monatshefte für Chemie</i> , 2010, 141, 15-18.	0.9	31
64	Protonation of electroneutral p-tert-butylcalix[4]arenetetraacetic acid. <i>Monatshefte für Chemie</i> , 2010, 141, 19-22.	0.9	16
65	Solvent extraction of silver trifluoromethanesulfonate from water into nitrobenzene in the presence of silver ionophore. <i>Monatshefte für Chemie</i> , 2010, 141, 507-510.	0.9	2
66	A combined experimental and theoretical study on the complexation of the ammonium cation with valinomycin. <i>Monatshefte für Chemie</i> , 2010, 141, 1191-1194.	0.9	26
67	Role of hydration and water coordination in micellization of Pluronic block copolymers. <i>Journal of Colloid and Interface Science</i> , 2010, 352, 415-423.	5.0	27
68	Low-band gap copolymers containing thienothiadiazole units: Synthesis, optical, and electrochemical properties. <i>Journal of Polymer Science Part A</i> , 2010, 48, 2743-2756.	2.5	31
69	Cooperative Preassociation Stages of PEO- <i>b</i> -PPO- <i>b</i> -PEO Triblock Copolymers: NMR and Theoretical Study. <i>Journal of Physical Chemistry B</i> , 2010, 114, 3140-3151.	1.2	21
70	Experimental and DFT Study on the Complexation of Zn ²⁺ with Valinomycin. <i>Zeitschrift für Physikalische Chemie</i> , 2009, 223, 869-875.	1.4	6
71	Capillary electrophoretic and computational study of the complexation of valinomycin with rubidium cation. <i>Electrophoresis</i> , 2009, 30, 883-889.	1.3	12
72	Capillary affinity electrophoresis and <i>ab initio</i> calculation studies of valinomycin complexation with Na ⁺ ion. <i>Journal of Separation Science</i> , 2009, 32, 597-604.	1.3	23

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73	A combined experimental and theoretical study on the complexation of Li ⁺ with valinomycin. Monatshefte für Chemie, 2009, 140, 251-254.	0.9	29
74	Contribution to protonated tetraethyl p-tert-butylcalix[4]arene tetraacetate: stability and DFT calculated structure. Monatshefte für Chemie, 2009, 140, 29-32.	0.9	22
75	Experimental evidence, stability, and the most probable structure of protonated p-tert-butylcalix[4]arenetetakis(N,N-dimethylacetamide). Monatshefte für Chemie, 2009, 140, 1155-1158.	0.9	19
76	A combined extraction and DFT study on the complexation of K ⁺ with valinomycin. Monatshefte für Chemie, 2009, 140, 1289-1292.	0.9	26
77	Extraction and ab initio calculation studies on the complexation of Ca ²⁺ with valinomycin. Journal of Radioanalytical and Nuclear Chemistry, 2009, 279, 553-559.	0.7	15
78	The role of water in structural changes of poly(N-isopropylacrylamide) and poly(N-isopropylmethacrylamide) studied by FTIR, Raman spectroscopy and quantum chemical calculations. Vibrational Spectroscopy, 2009, 51, 44-51.	1.2	81
79	Nanometer size wear debris generated from ultra high molecular weight polyethylene in vivo. Wear, 2009, 266, 349-355.	1.5	41
80	ATR FTIR investigation of interactions and temperature transitions of poly(ethylene oxide), poly(propylene oxide) and ethylene oxide- <i>co</i> -propylene oxide- <i>co</i> -ethylene oxide tri-block copolymers in water media. Vibrational Spectroscopy, 2009, 50, 218-225.	1.2	28
81	Application of capillary affinity electrophoresis and density functional theory to the investigation of valinomycin-lithium complex. Journal of Chromatography A, 2009, 1216, 3660-3665.	1.8	14
82	Note on the glass transition temperature of Poly(vinylphenol). European Polymer Journal, 2009, 45, 1851-1856.	2.6	9
83	Hydration Modes of an Amphiphilic Molecule: NMR, FTIR, and Theoretical Study of the Interactions in the Water-Lutidine System. Journal of Physical Chemistry B, 2009, 113, 11950-11958.	1.2	10
84	Interaction of Hydrated Protons with Trioctylphosphine Oxide: NMR and Theoretical Study. Journal of Physical Chemistry A, 2009, 113, 5896-5905.	1.1	103
85	Heat-Set Poly(ethylacrylic acid) Nanoparticles: Combined Light Scattering, Calorimetric, and FTIR Study. Macromolecules, 2009, 42, 7439-7446.	2.2	13
86	Stability and Probable Structure of Protonated p-tert-Butylcalix[4]arene-tetrakis(N,N-dimethylthioacetamide). Zeitschrift für Physikalische Chemie, 2009, 223, 713-718.	1.4	25
87	Protonation of 25,27-bis(1-octyloxy)calix[4]arene-crown-6 in the 1,3-alternate conformation. Monatshefte für Chemie, 2008, 139, 1175-1178.	0.9	51
88	Solvent extraction of univalent cations into nitrobenzene using sodium dicarbollylcobaltate and tetraphenyl p-tert-butylcalix[4]arene tetraketone. Monatshefte für Chemie, 2008, 139, 1349-1351.	0.9	7
89	DFT-calculated structure of protonated tetraphenyl p-tert-butylcalix[4]arene tetraketone. Monatshefte für Chemie, 2008, 139, 1353-1355.	0.9	24
90	Bottlebrush-shaped copolymers with cellulose diacetate backbone by a combination of ring opening polymerization and ATRP. Journal of Polymer Science Part A, 2008, 46, 564-573.	2.5	37

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91	Cooperative interaction of H_3O^+ with 1,3-alternate tetrapropoxycalix[4]arene: NMR and theoretical study. <i>Magnetic Resonance in Chemistry</i> , 2008, 46, 235-243.	1.1	10
92	Cooperative interaction of n -butylammonium ion with 1,3-alternate tetrapropoxycalix [4]arene: NMR and theoretical study. <i>Magnetic Resonance in Chemistry</i> , 2008, 46, 399-407.	1.1	6
93	NMR and theoretical study of the cooperative interaction of hydrated proton with dibenzo-crown-8. <i>Magnetic Resonance in Chemistry</i> , 2008, 46, 1015-1024.	1.1	3
94	Backbiting Termination in Methyl Methacrylate/ t -Butyl Acrylate Anionic Block Copolymerization. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 1657-1665.	1.1	6
95	Theoretical and experimental study of the complexation of valinomycin with ammonium cation. <i>Biopolymers</i> , 2008, 89, 1055-1060.	1.2	12
96	Interaction of Hydronium Ion with Dibenzo-18-crown-6: NMR, IR, and Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2008, 112, 10236-10243.	1.1	104
97	Quantification of UHMWPE wear in periprosthetic tissues of hip arthroplasty: Description of a new method based on IR and comparison with radiographic appearance. <i>Wear</i> , 2008, 265, 674-684.	1.5	24
98	Crystal Structures, Thermal Behaviors, and C-H...O Hydrogen Bondings of Poly(3-hydroxyvalerate) and Poly(3-hydroxybutyrate) Studied by Infrared Spectroscopy and X-ray Diffraction. <i>Macromolecules</i> , 2008, 41, 4305-4312.	2.2	85
99	Protonation of Tetrapropoxy-4- t -butylcalix[4]arene: NMR Study of Interaction and Probable Structures of the Product. <i>Supramolecular Chemistry</i> , 2008, 20, 487-494.	1.5	78
100	Experimental Evidence for Unusual Protonation of Tetraethyl p - t -Butylcalix[4]arene Tetraacetate and the Most Probable Structure of the Resulting Complex. <i>Supramolecular Chemistry</i> , 2008, 20, 387-395.	1.5	71
101	Interactions and Temperature Transitions of Ethylene Oxide " Propylene Oxide " Ethylene Oxide t -block Copolymers in Water Media. <i>Macromolecular Symposia</i> , 2008, 265, 241-248.	0.4	2
102	Indirect Measurement of the Cooperative Hydrogen Bonding of Polymers Using NMR Quadrupole Relaxation and PFG Methods. <i>Macromolecular Symposia</i> , 2008, 265, 225-232.	0.4	3
103	A Proton Complex of p - t -Butylcalix[4]arene-tetrakis(N,N-dimethylthioacetamide): NMR Evidence and Probable Structure. <i>Supramolecular Chemistry</i> , 2007, 19, 419-424.	1.5	75
104	A Combined Experimental and Theoretical Study on the Complexation of H_3O^+ with Hexaethyl Calix[6]arene Hexaacetate. <i>Zeitschrift Fur Physikalische Chemie</i> , 2007, 221, 519-525.	1.4	8
105	<title>Experiments of MAPLE thin film technology</title>. , 2007, , .		0
106	Matrix assisted pulsed laser evaporation of pullulan tailor-made biomaterial thin films for controlled drug delivery systems. <i>Journal of Physics: Conference Series</i> , 2007, 59, 144-149.	0.3	8
107	Cooperative Hydrogen Bonds of Macromolecules. 3. A Model Study of the Proximity Effect. <i>Journal of Physical Chemistry B</i> , 2007, 111, 6118-6126.	1.2	27
108	Thermal Behavior of Tetrahydropyran-Intercalated VOPO4: Structural and Dynamics Study. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 444-451.	1.0	2

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109	Matrix assisted pulsed laser evaporation of cinnamate-pullulan and tosylate-pullulan polysaccharide derivative thin films for pharmaceutical applications. <i>Applied Surface Science</i> , 2007, 253, 7755-7760.	3.1	16
110	Extraction and DFT study on the complexation of H ₃ O ⁺ with hexaethyl p-tert-butylcalix[6]arene hexaacetate. <i>Journal of Molecular Structure</i> , 2007, 846, 157-160.	1.8	7
111	Synthesis and characterization of new strontium 4-carboxyphenylphosphonates. <i>Journal of Solid State Chemistry</i> , 2007, 180, 929-939.	1.4	26
112	Formation and stability of β -structure in biodegradable ultra-high-molecular-weight poly(3-hydroxybutyrate) by infrared, Raman, and quantum chemical calculation studies. <i>Polymer</i> , 2007, 48, 2672-2680.	1.8	44
113	Intercalation of 1,2-Alkanediols into β -Zirconium Hydrogenphosphate. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2007, 58, 95-101.	1.6	1
114	Contribution to the Protonation of a Calix[4]arene: DFT Calculated Structure of Protonated p-tert-Butylcalix[4]arenetetakis(N,N-diethylacetamide). <i>Monatshefte für Chemie</i> , 2007, 138, 541-543.	0.9	30
115	Protonated Tetramethyl p-tert-Butylcalix[4]arene Tetraketone: NMR Evidence and Probable Structures. <i>Monatshefte für Chemie</i> , 2007, 138, 735-740.	0.9	35
116	Stability and DFT Calculated Structure of Protonated Tetraethyl p-tert-Butyltetrathiocalix[4]arenetetraacetate in the cone Conformation. <i>Monatshefte für Chemie</i> , 2007, 138, 1239-1242.	0.9	30
117	Surface-Deposited Acid/Base on Glass Microfibers in Formation of (3-Aminopropyl)triethoxysilane-[2-(3,4-epoxycyclohexyl)ethyl]heptaisobutyl-octasilsesquioxane Biooverlay. <i>Langmuir</i> , 2006, 22, 3633-3639.	1.6	4
118	Cooperative Hydrogen Bonds of Macromolecules. 2. Two-Dimensional Cooperativity in the Binding of Poly(4-vinylpyridine) to Poly(4-vinylphenol). <i>Journal of Physical Chemistry B</i> , 2006, 110, 18338-18346.	1.2	35
119	Solid Polymer Electrolytes Studied by NMR Spectroscopy and DFT Calculations. <i>Macromolecular Symposia</i> , 2006, 235, 57-63.	0.4	3
120	A near-infrared study of thermally induced structural changes in polyethylene crystal. <i>Polymer</i> , 2006, 47, 2010-2017.	1.8	22
121	Investigations of the hydrophobic and hydrophilic interactions in polymer-water systems by ATR FTIR and Raman spectroscopy. <i>Vibrational Spectroscopy</i> , 2006, 42, 278-283.	1.2	104
122	Valinomycin-proton interaction in low-polarity media. <i>Biopolymers</i> , 2006, 82, 536-548.	1.2	90
123	Infrared and Raman spectroscopy and quantum chemistry calculation studies of C-H...O hydrogen bondings and thermal behavior of biodegradable polyhydroxyalkanoate. <i>Journal of Molecular Structure</i> , 2005, 744-747, 35-46.	1.8	133
124	Solid state NMR and DFT study of polymer electrolyte poly(ethylene oxide)/LiCFSO. <i>Solid State Ionics</i> , 2005, 176, 163-167.	1.3	19
125	Intercalation of cyclic ketones into vanadyl phosphate. <i>Journal of Solid State Chemistry</i> , 2005, 178, 314-320.	1.4	4
126	Solid-State ¹³ C NMR and DFT Quantum-Chemical Study of Polymer Electrolyte Poly(2-ethyl-2-oxazoline)/AgCF ₃ SO ₃ . <i>Macromolecules</i> , 2005, 38, 5083-5087.	2.2	6

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127	Role of Water in Structural Changes of Poly(AVGVP) and Poly(CVGVGP) Studied by FTIR and Raman Spectroscopy and ab Initio Calculations. <i>Biomacromolecules</i> , 2005, 6, 697-706.	2.6	64
128	Cooperative H-Bonds of Macromolecules. 1. Binding of Low-Molecular-Weight Ligands to Polymers. <i>Journal of Physical Chemistry B</i> , 2005, 109, 13436-13444.	1.2	13
129	Intercalation of β -Butyrolactone into Vanadyl Phosphate and Niobyl Arsenate. <i>European Journal of Inorganic Chemistry</i> , 2004, 2004, 570-574.	1.0	9
130	Vanadyl Phosphate Intercalated with Diethyl Ether. <i>European Journal of Inorganic Chemistry</i> , 2004, 2004, 2493-2497.	1.0	4
131	Simple and Cooperative Electrostatic Binding of Ammonium Ions to Phosphate Polyions: A NMR, Infrared, and Theoretical Study. <i>Journal of Physical Chemistry B</i> , 2004, 108, 9306-9314.	1.2	5
132	Role of hydration in the phase transition of polypeptides investigated by NMR and Raman spectroscopy. <i>Macromolecular Symposia</i> , 2004, 205, 143-150.	0.4	5
133	Intercalates of Vanadyl Phosphate with Benzonitrile and Tolunitrile. <i>European Journal of Inorganic Chemistry</i> , 2003, 2003, 3662-3667.	1.0	3
134	Influence of local molecular motions on the determination of ^1H - ^1H internuclear distances measured by 2D ^1H spin-exchange experiments. <i>Solid State Nuclear Magnetic Resonance</i> , 2003, 23, 183-197.	1.5	15
135	Cooperativity in Macromolecular Interactions as a Proximity Effect: A NMR and Theoretical Study of Electrostatic Coupling of Weakly Charged Complementary Polyions. <i>Journal of Physical Chemistry B</i> , 2003, 107, 12165-12174.	1.2	9
136	Structure and Dynamics of Two Elastin-like Polypentapeptides Studied by NMR Spectroscopy. <i>Biomacromolecules</i> , 2003, 4, 589-601.	2.6	47
137	Structure of polypropylene/polyethylene blends assessed by polarised PA-FTIR spectroscopy, polarised FT raman spectroscopy and confocal Raman microscopy. <i>Macromolecular Symposia</i> , 2002, 184, 107-122.	0.4	13
138	Cooperative Counterion-Polyion Interactions in Polyelectrolyte Chain Dynamics: A NMR and Quantum-Chemical Study of Locally Collapsed State in Dilute Poly(N-diallyldimethylammonium) Tj ETQq0 0 0 rgBT / Overlock 16 Tf 50 29	1.0	16
139	Mobility, Structure, and Domain Size in Polyimide-Poly(dimethylsiloxane) Networks Studied by Solid-State NMR Spectroscopy. <i>Macromolecules</i> , 2002, 35, 1253-1261.	2.2	28
140	Energy versus Entropy in Cooperative Electrostatic Interactions: A Comparative Study of Binding of Sodium Poly(Styrenesulfonate), Dodecylbenzenesulfonate, and Methylbenzenesulfonate to Polycations. <i>Journal of Physical Chemistry B</i> , 2002, 106, 2175-2185.	1.2	12
141	Hydrogen-Bond Interactions in Organically-Modified Polysiloxane Networks Studied by 1D and 2D CRAMPS and Double-Quantum ^1H MAS NMR. <i>Macromolecules</i> , 2002, 35, 10038-10047.	2.2	37
142	Competitive/Cooperative Electrostatic Interactions in Macromolecular Complexes: A Multinuclear NMR Study of PDADMAC-PMANa Complexes in the Presence of Al^{3+} Ions. <i>Langmuir</i> , 2002, 18, 9594-9599.	1.6	15
143	Temperature Induced Conformational Transitions of Elastin-Like Polypentapeptides Studied by Raman and NMR Spectroscopy. <i>Spectroscopy</i> , 2002, 16, 251-255.	0.8	6
144	Potential and Limitations of 2D ^1H - ^1H Spin-Exchange CRAMPS Experiments to Characterize Structures of Organic Solids. <i>Monatshefte für Chemie</i> , 2002, 133, 1587-1612.	0.9	8

#	ARTICLE	IF	CITATIONS
145	Electrical resistance and diffusion permeability of microporous polyethylene membranes modified with polypyrrole and polyaniline in solutions of electrolytes. <i>Journal of Membrane Science</i> , 2002, 196, 279-287.	4.1	27
146	Purification of the specific immunoglobulin G1 by immobilized metal ion affinity chromatography using nickel complexes of chelating porous and nonporous polymeric sorbents based on poly(methacrylic esters). <i>Journal of Chromatography A</i> , 2002, 954, 115-126.	1.8	55
147	Cooperative Interactions of Unlike Macromolecules: NMR and Theoretical Study of the Electrostatic Coupling of Sodium Polyphosphates with Diallyl(dimethyl)ammonium Chloride Acrylamide Copolymers. <i>Journal of Physical Chemistry A</i> , 2001, 105, 7486-7493.	1.1	23
148	Supramolecular Structures of Low-Molecular-Weight Polybutadienes, as Studied by Dynamic Light Scattering, NMR and Infrared Spectroscopy. <i>Macromolecules</i> , 2001, 34, 9023-9031.	2.2	11
149	Raman spectroscopy of secondary structure of elastinlike polymer poly(GVGVP). <i>Biopolymers</i> , 2001, 62, 150-157.	1.2	8
150	Molecular Structure of the Complex of Hexano-6-lactam with Magnesium Bromide. <i>Macromolecular Chemistry and Physics</i> , 2001, 202, 1194-1199.	1.1	13
151	Molecular Structure of the Complex of Octano-8-lactam with Magnesium Bromide. <i>Macromolecular Chemistry and Physics</i> , 2001, 202, 3371-3378.	1.1	2
152	Structural transformation of polyethylene phase in oriented polyethylene/polypropylene blends: a hierarchical structure approach. <i>Polymer</i> , 2001, 42, 5321-5326.	1.8	24
153	Crystallization behaviour of poly(N -methyldodecano-12-lactam) Part 2. Recrystallization. <i>Polymer</i> , 2000, 41, 7667-7679.	1.8	8
154	Crystallization behaviour of poly(N -methyldodecano-12-lactam) Part 1. Isothermal crystallization. <i>Polymer</i> , 2000, 41, 7653-7666.	1.8	11
155	Phase structure, composition and orientation of PC/PSAN blends studied by Raman spectroscopy, confocal Raman imaging spectroscopy and polarised PA-FTIR spectroscopy. <i>Polymer</i> , 2000, 41, 4267-4279.	1.8	19
156	Solid-state NMR study of structure, size and dynamics of domains in hybrid siloxane networks. <i>Polymer</i> , 2000, 41, 5269-5282.	1.8	32
157	Order and Mobility in Polycarbonate~Poly(ethylene oxide) Blends Studied by Solid-State NMR and Other Techniques. <i>Macromolecules</i> , 2000, 33, 6448-6459.	2.2	49
158	Cooperative Interactions of Unlike Macromolecules: NMR Study of Ionic Coupling of Poly[2-(trimethylammonio)ethyl Methacrylate Chloride]-block-Poly(N-(2-hydroxypropyl)) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50,222 Td (M 10972-10985.	1.1	19
159	Polymer Dynamics in an Interface-Confined Space: NMR Study of Poly(hexyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 187 Td (eth in D2O. <i>Macromolecules</i> , 2000, 33, 4108-4115.	2.2	11
160	Copolymerization of tetraethoxysilane and dimethyl(diethoxy)silane studied by ²⁹ Si NMR and ab initio calculations of ²⁹ Si NMR chemical shifts. <i>Polymer</i> , 1999, 40, 6933-6945.	1.8	33
161	Polymer electrolyte poly(ethylene oxide)/LiCF ₃ SO ₃ studied by solid-state ¹³ C NMR spectroscopy and ab initio calculations. <i>Macromolecular Rapid Communications</i> , 1999, 20, 435-439.	2.0	9
162	Study of the Propagation Center in the Anionic Polymerization of (Meth)acrylic Monomers: NMR Study of Di-tert-butyl 2-Lithio-2,4-trimethylglutarate and Living Poly(tert-butyl methacrylate) Oligomers in THF/Toluene Mixtures. <i>Macromolecules</i> , 1999, 32, 5477-5486.	2.2	5

#	ARTICLE	IF	CITATIONS
163	Nature and Dynamics of Lithium Ion Coordination in Oligo(ethylene glycol) Dimethacrylate-Solvent Systems: NMR, Raman, and Quantum Mechanical Study. <i>Journal of Physical Chemistry A</i> , 1999, 103, 8505-8515.	1.1	16
164	NMR and vibrational spectroscopic study of the order and mobility in polycarbonate and polycarbonate ϵ poly(ethylene oxide) blends. <i>Macromolecular Symposia</i> , 1999, 146, 17-23.	0.4	3
165	Study of the Propagation Center in the Anionic Polymerization of (Meth)acrylic Monomers: NMR and MNDO Study of the Complexes of Di-tert-butyl 2-Lithio-2,4,4-trimethylglutarate and of the Living Poly(tert-butyl methacrylate) Oligomers with Lithium Chloride. <i>Macromolecules</i> , 1998, 31, 2744-2755.	2.2	20
166	Study of the Propagation Center in the Anionic Polymerization of (Meth)acrylic Monomers: NMR and MO LCAO Study of the Interaction of Di-tert-butyl 2-Lithio-2,4,4-trimethylglutarate and the Living Poly(tert-butyl methacrylate) Oligomers with Lithium 2-(2-Methoxyethoxy)ethoxide in Tetrahydrofuran. <i>Macromolecules</i> , 1998, 31, 2731-2743.	2.2	15
167	Ordered Structures in Polycarbonate Studied by Infrared and Raman Spectroscopy, Wide-Angle X-ray Scattering, and Differential Scanning Calorimetry. <i>Macromolecules</i> , 1998, 31, 6611-6619.	2.2	68
168	NMR Study of the Shell Dynamics and Ionization States of Sodium and Lithium Salts of Poly(methyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.2	14
169	Nylon 6 with a short rigid central block. <i>European Polymer Journal</i> , 1997, 33, 587-593.	2.6	8
170	Spectral and structural characterization of a cyclic trimeric model of poly(6-hexanelactam). <i>Polymer</i> , 1997, 38, 2483-2491.	1.8	4
171	Stereoselectivity of an early propagation step in the anionic polymerization of methyl methacrylate ϵ ab initio SCF, MNDO and AM1 study. <i>Macromolecular Theory and Simulations</i> , 1997, 6, 437-450.	0.6	7
172	NMR and AM1 Quantum Chemical Study of the Regioselectivity of the Reaction of 2-Hydroxyethyl Methacrylate with 3-Nitrophthalic Anhydride. <i>Collection of Czechoslovak Chemical Communications</i> , 1997, 62, 69-82.	1.0	3
173	Study of the propagation centre in the anionic polymerization of lactams, 1. Spectroscopic and theoretical study of the activated monomer in dimethyl sulfoxide. <i>Macromolecular Chemistry and Physics</i> , 1996, 197, 467-482.	1.1	1
174	Study of the propagation centre in the anionic polymerization of lactams, 2. Model study of the interaction between an activated monomer and N-acyllactam in dimethyl sulfoxide. <i>Macromolecular Chemistry and Physics</i> , 1996, 197, 483-495.	1.1	2
175	Study of the propagation centre in the anionic polymerization of (meth)acrylic monomers, 7. Study of the interaction of the living dimer with lithium tert-butoxide in tetrahydrofuran. <i>Macromolecular Chemistry and Physics</i> , 1996, 197, 1889-1907.	1.1	13
176	Study of the propagation centre in the anionic polymerization of (meth)acrylic monomers, 5. Nuclear magnetic resonance study of the model dimer in tetrahydrofuran. <i>Macromolecular Chemistry and Physics</i> , 1995, 196, 3005-3014.	1.1	14
177	Study of the propagation centre in the anionic polymerization of (meth)acrylic monomers, 4 NMR and quantum chemical study of the initiation systems containing tert-butyl 2-lithioisobutyrate and lithium tert-butoxide or lithium 3-methylpentan-3-olate. <i>Macromolecular Chemistry and Physics</i> , 1995, 196, 3117-3132.	1.1	14
178	Cis-trans isomerism and conformational structure of N-methyl dodecanelactam as studied by NMR, IR and Raman spectroscopy and by theoretical calculations. <i>Journal of Molecular Structure</i> , 1995, 350, 9-18.	1.8	3
179	Vibrational and n.m.r. study of poly(N-methyl lauro lactam) and of poly(N-methyl lauro lactam)-poly(4-vinylphenol) blends. <i>Polymer</i> , 1995, 36, 4011-4021.	1.8	14
180	Blends of poly(ethylene oxide)/poly(methyl methacrylate). An i.r. and n.m.r. study. <i>Polymer</i> , 1995, 36, 1147-1155.	1.8	55

#	ARTICLE	IF	CITATIONS
181	Influence of silane addition on the electrorheological behavior of calcium carbonate-polypropylene oil suspensions. <i>Langmuir</i> , 1995, 11, 3601-3602.	1.6	2
182	Structure and interactions in homopolymers and blends as studied by the methods of vibrational and nmr spectroscopy. <i>Macromolecular Symposia</i> , 1995, 94, 19-31.	0.4	1
183	Study of the Growth Centres of the Anionic Polymerization of (Meth)acrylates. VI. MO LCAO SCF Study of the Model Dimer, Its Solvation and Aggregation States. <i>Collection of Czechoslovak Chemical Communications</i> , 1995, 60, 1609-1620.	1.0	6
184	Conformational Structure of N-Methyl-8-octanelactam and Poly(N-methyl-8-octanelactam) as Studied by NMR, Infrared and Raman Spectroscopy and by Theoretical Calculations. <i>Collection of Czechoslovak Chemical Communications</i> , 1995, 60, 1798-1808.	1.0	0
185	Spectroscopic study of 1-decene oligomers obtained with AlCl ₃ as catalyst. <i>Macromolecular Chemistry and Physics</i> , 1994, 195, 2747-2758.	1.1	6
186	Study of the propagation centre in the anionic polymerization of acrylic monomers, 1. Spectroscopic study of methyl 2-lithioisobutyrate, an initiator for the anionic polymerization of acrylic monomers. <i>Macromolecular Chemistry and Physics</i> , 1994, 195, 3039-3056.	1.1	24
187	MNDO and ab initio Calculations of Methyl 2-Lithioisobutyrate and Its Solvates and Aggregates. <i>Collection of Czechoslovak Chemical Communications</i> , 1994, 59, 1699-1708.	1.0	21
188	Title is missing!. <i>Die Makromolekulare Chemie</i> , 1993, 194, 1757-1763.	1.1	10
189	Molecular Structure of a Cyclic Dimeric Model of Poly(6-hexanelactam). <i>Collection of Czechoslovak Chemical Communications</i> , 1993, 58, 2403-2414.	1.0	4
190	Characterization of the conformational structure of t-butyl acrylate oligomers and polymers by infrared and NMR spectroscopy and computational methods. <i>European Polymer Journal</i> , 1992, 28, 1331-1338.	2.6	2
191	Title is missing!. <i>Die Makromolekulare Chemie</i> , 1992, 193, 101-112.	1.1	54
192	Normal coordinate analysis of infrared and Raman spectra of syndiotactic poly(methyl methacrylate). <i>Collection of Czechoslovak Chemical Communications</i> , 1991, 56, 1653-1661.	1.0	6
193	Conformational structure of bisphenol A polycarbonate studied by infra-red spectroscopy. <i>Polymer</i> , 1991, 32, 1862-1866.	1.8	36
194	Normal-mode analysis of infrared and Raman spectra of crystalline isotactic poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50,222 Td (r	2.2	71
195	Title is missing!. <i>Die Makromolekulare Chemie</i> , 1988, 189, 2099-2105.	1.1	9
196	Dipole derivatives and infrared intensities of the ester group. An ab initio and force field study of methyl acetate. <i>Journal of Molecular Structure</i> , 1988, 189, 383-392.	1.8	26
197	Ci→O stretch mode splitting in the formic acid dimer: Electrostatic models of the intermonomer interaction. <i>Journal of Molecular Structure</i> , 1987, 159, 183-194.	1.8	26
198	Ordered structures of syndiotactic poly(methyl methacrylates) studied by a combination of infrared, Raman, and NMR spectroscopy.. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1986, 24, 657-674.	2.4	44

#	ARTICLE	IF	CITATIONS
199	The UV-VIS spectroscopic study of the interaction between WCl ₆ and esters of carboxylic acids. <i>Reaction Kinetics and Catalysis Letters</i> , 1986, 30, 17-22.	0.6	4
200	Raman spectroscopic study of the intermolecular coupling of C=O stretching vibrations in liquid methyl acetate and acetone. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1985, 41, 691-695.	0.1	21
201	Motional restrictions and chain conformation in various swollen crosslinked polystyrene gels from ¹ H n.m.r. line-shape analysis. <i>Polymer</i> , 1985, 26, 253-258.	1.8	24
202	Study of ordered structures of syndiotactic poly(methyl methacrylate) in solution and in the solid state. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1984, 22, 617-635.	1.0	39
203	Study of the effect of aggregation on the structure of syndiotactic poly(methyl methacrylate) by infrared spectra of its deuterated analogues. <i>Collection of Czechoslovak Chemical Communications</i> , 1984, 49, 2259-2268.	1.0	6
204	Solvent induced crystallization of syndiotactic poly(methyl methacrylate) relation to the formation of polymer aggregates in solution. <i>Polymer Bulletin</i> , 1983, 9, 495-501.	1.7	15
205	Vibrational spectra and structure of stereoregular poly(methyl methacrylates) and of the stereocomplex. <i>Polymer</i> , 1983, 24, 971-980.	1.8	71
206	Raman and infrared spectra and the structure of the dimethyl ester of 2,2,4,4-tetramethylglutaric acid. <i>Collection of Czechoslovak Chemical Communications</i> , 1983, 48, 2072-2078.	1.0	9
207	C=O Stretching vibrations in Raman and infrared spectra of simple esters. <i>Collection of Czechoslovak Chemical Communications</i> , 1982, 47, 2027-2036.	1.0	11
208	NMR study of cis/trans isomerism in N-methylated lactams with 11- and 13-membered rings. <i>Journal of Molecular Structure</i> , 1980, 66, 301-308.	1.8	5
209	NMR and Raman spectroscopic study of complex formation between 2-methyl-2-azabicyclo-[2,2,2]-octa-3-one and TiCl ₄ . <i>Journal of Molecular Structure</i> , 1980, 68, 119-136.	1.8	4
210	Polyhedral oligomeric silsesquioxane (POSS)-based epoxy nanocomposite involving a reversible Diels-Alder-type network as a self-healing material. <i>Journal of Adhesion Science and Technology</i> , 0, , 1-22.	1.4	3