Adam Rachocki

List of Publications by Year
in descending order

35 papers	688 citations	686830 13 h-index	580395 25 g-index
35 all docs	35 docs citations	35 times ranked	1039 citing authors

#	Article	IF	Citations
1	Glass transition temperature and thermal decomposition of cellulose powder. Cellulose, 2008, 15, 445-451.	2.4	249
2	Proton-conducting Microcrystalline Cellulose Doped with Imidazole. Thermal and Electrical Properties. Electrochimica Acta, 2015, 155, 38-44.	2.6	43
3	Influence of cellulose gel matrix on BMIMCl ionic liquid dynamics and conductivity. Cellulose, 2017, 24, 1641-1655.	2.4	37
4	Structure, hydrogen bond network and proton conductivity of new benzimidazole compounds with dicarboxylic acids. CrystEngComm, 2013, 15, 1950.	1.3	30
5	Translational dynamics of ionic liquid imidazolium cations at solid/liquid interface in gel polymer electrolyte. European Polymer Journal, 2015, 71, 210-220.	2.6	30
6	Proton Conducting Compound of Benzimidazole with Sebacic Acid: Structure, Molecular Dynamics, and Proton Conductivity. Crystal Growth and Design, 2014, 14, 1211-1220.	1.4	23
7	Novel application of NMR relaxometry in studies of diffusion in virgin rape oil. Food Chemistry, 2014, 152, 94-99.	4.2	22
8	Effect of gel matrix confinement on the solvent dynamics in supramolecular gels. Journal of Colloid and Interface Science, 2016, 472, 60-68.	5.0	20
9	A novel method of recognizing liquefied honey. Food Chemistry, 2018, 245, 885-889.	4.2	20
10	The solvent dynamics at pore surfaces in molecular gels studied by field-cycling magnetic resonance relaxometry. Soft Matter, 2014, 10, 7810-7818.	1.2	19
11	Effect of surface coating of microcrystalline cellulose by imidazole molecules on proton conductivity. European Polymer Journal, 2016, 78, 186-194.	2.6	16
12	The gelation influence on diffusion and conductivity enhancement effect in renewable ionic gels based on a LMWG. Physical Chemistry Chemical Physics, 2018, 20, 5803-5817.	1.3	15
13	The crystal structure and evidence of the phase transition in d-amphetamine sulfate, as studied by X-ray crystallography, DSC and NMR spectroscopy. New Journal of Chemistry, 2009, 33, 1894.	1.4	13
14	How we can interpret the T1 dispersion of MC, HPMC and HPC polymers above glass temperature?. Solid State Nuclear Magnetic Resonance, 2006, 30, 192-197.	1.5	12
15	Spin-lattice relaxation study of the methyl proton dynamics in solid 9,10-dimethyltriptycene (DMT). Solid State Nuclear Magnetic Resonance, 2009, 35, 194-200.	1.5	12
16	Synthesis and characterization of a new proton-conducting material based on imidazole and selenic acid. Solid State Ionics, 2012, 227, 96-101.	1.3	12
17	Conservation process of archaeological waterlogged wood studied by spectroscopy and gradient NMR methods. Wood Science and Technology, 2019, 53, 1207-1222.	1.4	12
18	Dynamic processes and chemical composition of Lepidium sativum seeds determined by means of field-cycling NMR relaxometry and NMR spectroscopy. Analytical and Bioanalytical Chemistry, 2012, 404, 3155-3164.	1.9	11

#	Article	IF	Citations
19	Quantification of manganous ions in wine by NMR relaxometry. Talanta, 2020, 209, 120561.	2.9	11
20	The Molecular Origin of Nuclear Magnetic Relaxation in Methyl Cellulose and Hydroxypropylmethyl Cellulose. Journal of Polymer Research, 2006, 13, 201-206.	1.2	10
21	The structural dynamics in the proton-conducting imidazolium oxalate. Journal of Physics Condensed Matter, 2008, 20, 505101.	0.7	10
22	Detection of Authenticity and Quality of the Turkish Delights (Lokum) by Means of Conventional and Fast Field Cycling Nuclear Magnetic Resonance Relaxometry. Journal of Agricultural and Food Chemistry, 2021, 69, 12089-12101.	2.4	8
23	Molecular Dynamics in a New Solid Glucofuranose-Based Low-Molecular-Weight Organogelator as Studied by 1H NMR. Applied Magnetic Resonance, 2008, 33, 431-438.	0.6	7
24	Morphology, molecular dynamics and electric conductivity of carbohydrate polymer films based on alginic acid and benzimidazole. Carbohydrate Research, 2011, 346, 2718-2726.	1.1	7
25	The indications of tautomeric conversion in amorphous bicalutamide drug. European Journal of Pharmaceutical Sciences, 2017, 110, 117-123.	1.9	7
26	NMR studies of molecular ordering and molecular dynamics in a chiral liquid crystal with the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Sm</mml:mi><mml:msup><mml:mrow><mml:msub><mm phase. Physical Review E, 2020, 101, 052708.	0.8	7
27	1H NMR Relaxation Studies of Proton-Conducting Imidazolium Salts of Dicarboxylic Acids. Applied Magnetic Resonance, 2008, 34, 163-173.	0.6	6
28	NMR study of molecular dynamics in selected hydrophilic polymers. Solid State Nuclear Magnetic Resonance, 2004, 25, 42-46.	1.5	5
29	Spectroscopic and photopolymerization studies of benzyl methacrylate/poly(benzyl methacrylate) twoâ€component system. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 1336-1348.	2.4	4
30	Melting behavior of water confined in nanopores of white cement studies by1H NMR cryoporometry: Effect of antifreeze additive and temperature. Applied Magnetic Resonance, 2005, 29, 639-653.	0.6	3
31	1H Spinâ€“Lattice Relaxation Study of Dynamical Inequivalence of Methyl Groups in Solid 1,2-O-(1-Ethylpropylidene)-Î±-d-Glucofuranose. Applied Magnetic Resonance, 2009, 36, 61-68.	0.6	3
32	Effect of polymer network on thermodynamic stability and switching behavior of the smectic-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msubsup><mml:mi>C</mml:mi><mml:mrow><mml:mi>l±</mml:mi></mml:mrow><mm Physical Review E, 2017, 96, 052702.	0.8	2
33	Thermal stabilization of the smectic-CÎ±* phase by doping with photo-active reactive mesogen. Journal of Molecular Liquids, 2022, 361, 119552.	2.3	2
34	NMR Study of the Molecular Dynamics of D-Amphetamine Sulfate Salt Powder. Applied Magnetic Resonance, 2008, 33, 439-446.	0.6	0
35	Analysis of the Proton Spinâ€“Lattice Relaxation in Wine and Hydroalcoholic Solutions. Food Analytical Methods, 0, , 1.	1.3	0