

# Jadwiga Tritt-Goc

## List of Publications by Citations

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96  
papers

1,401  
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99  
ext. papers

1,537  
ext. citations

3.5  
avg, IF

4.58  
L-index

#	Paper	IF	Citations
96	Glass transition temperature and thermal decomposition of cellulose powder. <i>Cellulose</i> , <b>2008</b> , 15, 445-451	5.5	179
95	Solvent effect on 1,2-O-(1-ethylpropylidene)-alpha-D-glucofuranose organogel properties. <i>Langmuir</i> , <b>2009</b> , 25, 8274-9	4	69
94	Magnetic resonance imaging study of the swelling kinetics of hydroxypropylmethylcellulose (HPMC) in water. <i>Journal of Controlled Release</i> , <b>2002</b> , 80, 79-86	11.7	60
93	Proton-conducting Microcrystalline Cellulose Doped with Imidazole. Thermal and Electrical Properties. <i>Electrochimica Acta</i> , <b>2015</b> , 155, 38-44	6.7	34
92	Dielectric Relaxation in Cellulose and its Derivatives. <i>Acta Physica Polonica A</i> , <b>2005</b> , 108, 137-145	0.6	34
91	Imidazole-doped nanocrystalline cellulose solid proton conductor: synthesis, thermal properties, and conductivity. <i>Cellulose</i> , <b>2018</b> , 25, 281-291	5.5	31
90	Magnetic resonance studies of cement based materials in inhomogeneous magnetic fields. <i>Cement and Concrete Research</i> , <b>2005</b> , 35, 2033-2040	10.3	31
89	Dynamics of a glycine molecule in a new ferroelectric glycine phosphite studied by proton NMR. <i>Solid State Communications</i> , <b>1998</b> , 108, 189-192	1.6	30
88	The use of the MRI technique in the evaluation of water distribution in tumbled porcine muscle. <i>Meat Science</i> , <b>2004</b> , 67, 25-31	6.4	29
87	Translational dynamics of ionic liquid imidazolium cations at solid/liquid interface in gel polymer electrolyte. <i>European Polymer Journal</i> , <b>2015</b> , 71, 210-220	5.2	28
86	Thermal properties of the gel made by low molecular weight gelator 1,2-O-(1-ethylpropylidene)-alpha-D-glucofuranose with toluene and molecular dynamics of solvent. <i>Langmuir</i> , <b>2008</b> , 24, 534-40	4	28
85	The swelling properties of hydroxypropyl methyl cellulose loaded with tetracycline hydrochloride: magnetic resonance imaging study. <i>Solid State Nuclear Magnetic Resonance</i> , <b>2004</b> , 25, 35-41	3.1	27
84	Imidazole-Doped Cellulose as Membrane for Fuel Cells: Structural and Dynamic Insights from Solid-State NMR. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 19574-19585	3.8	26
83	Influence of solvent on the thermal stability and organization of self-assembling fibrillar networks in methyl-4,6-O-(p-nitrobenzylidene)-beta-D-glucofuranoside gels. <i>Tetrahedron</i> , <b>2011</b> , 67, 7222-7230	2.4	26
82	Comparison of structural, thermal and proton conductivity properties of micro- and nanocelluloses. <i>Carbohydrate Polymers</i> , <b>2018</b> , 200, 536-542	10.3	25
81	Characterization of low molecular-weight gelator methyl-4,6-O-(p-nitrobenzylidene)-beta-D-glucofuranoside hydrogels and water diffusion in their networks. <i>Tetrahedron</i> , <b>2009</b> , 65, 9801-9806	2.4	24
80	The influence of the superplasticizer on the hydration and freezing processes in white cement studied by 1H spin-lattice relaxation time and single point imaging. <i>Cement and Concrete Research</i> , <b>2000</b> , 30, 931-936	10.3	24

79	Influence of cellulose gel matrix on BMIMCl ionic liquid dynamics and conductivity. <i>Cellulose</i> , <b>2017</b> , 24, 1641-1655	5.5	23
78	On the relation between the solvent parameters and the physical properties of methyl-4,6-O-benzylidene- $\beta$ -D-glucopyranoside organogels. <i>Tetrahedron</i> , <b>2012</b> , 68, 3803-3810	2.4	23
77	Novel supramolecular organogels based on a hydrazide derivative: non-polar solvent-assisted self-assembly, selective gelation properties, nanostructure, solvent dynamics. <i>Soft Matter</i> , <b>2013</b> , 9, 7501-7510	3.6	23
76	Evidence of solvent-gelator interaction in sugar-based organogel studied by field-cycling NMR relaxometry. <i>Langmuir</i> , <b>2010</b> , 26, 17459-64	4	19
75	<sup>17</sup> O n.m.r. studies of amino acids in the solid state, in single- and polycrystalline forms. <i>International Journal of Peptide and Protein Research</i> , <b>1988</b> , 31, 130-6		19
74	Novel application of NMR relaxometry in studies of diffusion in virgin rape oil. <i>Food Chemistry</i> , <b>2014</b> , 152, 94-9	8.5	18
73	Spatially resolved solvent interaction with glassy HPMC polymers studied by magnetic resonance microscopy. <i>Solid State Nuclear Magnetic Resonance</i> , <b>2005</b> , 28, 250-7	3.1	18
72	Effect of gel matrix confinement on the solvent dynamics in supramolecular gels. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 472, 60-8	9.3	17
71	The solvent dynamics at pore surfaces in molecular gels studied by field-cycling magnetic resonance relaxometry. <i>Soft Matter</i> , <b>2014</b> , 10, 7810-8	3.6	17
70	Electron spin echo studies of spin-lattice and spin-spin relaxation of SeO <sub>3</sub> <sup>-</sup> radicals in (NH <sub>4</sub> ) <sub>3</sub> H(SeO <sub>4</sub> ) <sub>2</sub> crystal. <i>Solid State Communications</i> , <b>1993</b> , 85, 585-587	1.6	17
69	NMR chemical shift and asymmetric dipolar tensors of water protons in sodium nitroprusside (SNP). <i>Chemical Physics</i> , <b>1986</b> , 102, 133-140	2.3	16
68	Effect of surface coating of microcrystalline cellulose by imidazole molecules on proton conductivity. <i>European Polymer Journal</i> , <b>2016</b> , 78, 186-194	5.2	15
67	The solvent-gelator interaction as the origin of different diffusivity behavior of diols in gels formed with sugar-based low-molecular-mass gelator. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 4005-15	3.4	15
66	In situ, real time observation of the disintegration of paracetamol tablets in aqueous solution by magnetic resonance imaging. <i>European Journal of Pharmaceutical Sciences</i> , <b>2002</b> , 15, 341-6	5.1	15
65	Proton conductivity and proton dynamics in nanocrystalline cellulose functionalized with imidazole. <i>Carbohydrate Polymers</i> , <b>2019</b> , 225, 115196	10.3	14
64	Thermal Properties, Conductivity, and Spin-lattice Relaxation of Gel Electrolyte Based on Low Molecular Weight Gelator and Solution of High Temperature Ionic Liquid. <i>Electrochimica Acta</i> , <b>2015</b> , 165, 122-129	6.7	14
63	1,2-O-(1-Ethylpropylidene)- $\beta$ -D-glucofuranose, a low molecular mass organogelator: benzene gel formation and their thermal stabilities. <i>Tetrahedron Letters</i> , <b>2008</b> , 49, 6685-6689	2	14
62	Molecular motions and phase transitions in solid tris(n-propylammonium) hexabromobismuthate (III). <i>Physica Status Solidi (B): Basic Research</i> , <b>1996</b> , 193, 341-346	1.3	14

61	The crystal structure and evidence of the phase transition in D-amphetamine sulfate, as studied by X-ray crystallography, DSC and NMR spectroscopy. <i>New Journal of Chemistry</i> , <b>2009</b> , 33, 1894	3.6	13
60	The hardening of Portland cement observed by <sup>1</sup> H spin-lattice relaxation and single-point imaging. <i>Applied Magnetic Resonance</i> , <b>2000</b> , 18, 155-164	0.8	13
59	The gelation influence on diffusion and conductivity enhancement effect in renewable ionic gels based on a LMWG. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 5803-5817	3.6	12
58	Interaction of chlorobenzene with gelator in methyl-4,6-O-(p-nitrobenzylidene)- $\beta$ -D-glucopyranoside gel probed by proton fast field cycling NMR relaxometry. <i>Tetrahedron</i> , <b>2011</b> , 67, 8170-8176	2.4	12
57	Magnetic resonance imaging study of the transport phenomena of solvent into the gel layer of hypromellose matrices containing tetracycline hydrochloride. <i>Journal of Pharmacy and Pharmacology</i> , <b>2003</b> , 55, 1487-93	4.8	12
56	Hydration of Hydroxypropylmethyl Cellulose: Effects of pH and Molecular Mass. <i>Acta Physica Polonica A</i> , <b>2005</b> , 108, 197-205	0.6	12
55	Cellulose microfibrils surface treated with imidazole as new proton conductors. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 239, 122056	4.4	12
54	NMR relaxometry study of gelatin based low-calorie soft candies. <i>Molecular Physics</i> , <b>2019</b> , 117, 1034-1045	4.7	11
53	Spin-lattice relaxation study of the methyl proton dynamics in solid 9,10-dimethyltritycene (DMT). <i>Solid State Nuclear Magnetic Resonance</i> , <b>2009</b> , 35, 194-200	3.1	11
52	How we can interpret the T1 dispersion of MC, HPMC and HPC polymers above glass temperature?. <i>Solid State Nuclear Magnetic Resonance</i> , <b>2006</b> , 30, 192-7	3.1	11
51	MRI study of Fickian, case II and anomalous diffusion of solvents into hydroxypropylmethylcellulose. <i>Applied Magnetic Resonance</i> , <b>2005</b> , 29, 605-615	0.8	11
50	Dynamic processes and chemical composition of <i>Lepidium sativum</i> seeds determined by means of field-cycling NMR relaxometry and NMR spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 404, 3155-64	4.4	10
49	Molecular motions and phase transitions in solid bis-n-propylammonium pentabromoantimonate. <i>Solid State Nuclear Magnetic Resonance</i> , <b>1994</b> , 3, 293-7	3.1	10
48	Rotational Motion of the Ammonium Ions in (NH <sub>4</sub> ) <sub>3</sub> H(SeO <sub>4</sub> ) <sub>2</sub> Studied by NMR. <i>Physica Status Solidi (B): Basic Research</i> , <b>1993</b> , 176, K13-K16	1.3	10
47	Diffusive diffraction phenomenon observed by PGSE NMR technique in a sugar-based low-molecular-mass gel. <i>Langmuir</i> , <b>2012</b> , 28, 14039-44	4	9
46	Synthesis and characterization of a new proton-conducting material based on imidazole and selenic acid. <i>Solid State Ionics</i> , <b>2012</b> , 227, 96-101	3.3	9
45	A possible application of magnetic resonance imaging for pharmaceutical research. <i>European Journal of Pharmaceutical Sciences</i> , <b>2011</b> , 42, 354-64	5.1	9
44	The Molecular Origin of Nuclear Magnetic Relaxation in Methyl Cellulose and Hydroxypropylmethyl Cellulose. <i>Journal of Polymer Research</i> , <b>2006</b> , 13, 201-206	2.7	9

43	Weak Inter- and Intralayer Exchange Coupling between Copper(II) Dimers and a Triplet Density Effect in EPR of Tris(ethylenediamine)cobalt(III) Bis( $\mu$ -chloro)bis[trichlorocuprate(II)] Dichloride Dihydrate. <i>Inorganic Chemistry</i> , <b>1995</b> , 34, 1852-1858	5.1	9
42	Quantification of manganoous ions in wine by NMR relaxometry. <i>Talanta</i> , <b>2020</b> , 209, 120561	6.2	9
41	Ionic Conductivity and Thermal Properties of a Supramolecular Ionogel Made from a Sugar-Based Low Molecular Weight Gelator and a Quaternary Ammonium Salt Electrolyte Solution. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, G187-G195	3.9	9
40	Conservation process of archaeological waterlogged wood studied by spectroscopy and gradient NMR methods. <i>Wood Science and Technology</i> , <b>2019</b> , 53, 1207-1222	2.5	8
39	The structural dynamics in the proton-conducting imidazolium oxalate. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 505101	1.8	8
38	Magnetic resonance microimaging of pore freezing in cement: Effect of corrosion inhibitor. <i>Journal of Applied Physics</i> , <b>2000</b> , 88, 7339-7345	2.5	8
37	Thermally reversible solidification of novel ionic liquid [im]HSO <sub>4</sub> by self-nucleated rapid crystallization: investigations of ionic conductivity, thermal properties, and catalytic activity. <i>RSC Advances</i> , <b>2016</b> , 6, 108896-108907	3.7	7
36	Morphology, molecular dynamics and electric conductivity of carbohydrate polymer films based on alginic acid and benzimidazole. <i>Carbohydrate Research</i> , <b>2011</b> , 346, 2718-26	2.9	7
35	Molecular motions in solid (CH <sub>3</sub> ) <sub>2</sub> NH <sub>2</sub> H <sub>2</sub> PO <sub>4</sub> studied by proton nuclear magnetic resonance. <i>Solid State Communications</i> , <b>1998</b> , 106, 367-371	1.6	7
34	Molecular Dynamics in a New Solid Glucofuranose-Based Low-Molecular-Weight Organogelator as Studied by <sup>1</sup> H NMR. <i>Applied Magnetic Resonance</i> , <b>2008</b> , 33, 431-438	0.8	7
33	Proton dipolar coupling tensors in barium nitroprusside trihydrate. <i>Journal of Physics and Chemistry of Solids</i> , <b>1995</b> , 56, 935-942	3.9	7
32	Proton NMR relaxation study of the motion of water molecules in hydrated nitroprussides. <i>Journal of Physics and Chemistry of Solids</i> , <b>1993</b> , 54, 123-126	3.9	7
31	Synthesis, thermal properties, conductivity and lifetime of proton conductors based on nanocrystalline cellulose surface-functionalized with triazole and imidazole. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 13365-13375	6.7	6
30	Effect of microwave irradiation on the hydroxypropyl methylcellulose powder and its hydrogel studied by Magnetic Resonance Imaging. <i>Carbohydrate Polymers</i> , <b>2011</b> , 83, 166-170	10.3	6
29	<sup>1</sup> H NMR Cryoporometry Study of the Melting Behavior of Water in White Cement. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , <b>2004</b> , 59, 550-558	1.4	6
28	Determination of dynamic parameters in amino acids from <sup>17</sup> O NMR line width measurements. <i>Magnetic Resonance in Chemistry</i> , <b>1991</b> , 29, 156-163	2.1	6
27	A study of H <sub>2</sub> O lattice diffusion in sodium nitroprusside single crystal. <i>Physica Status Solidi A</i> , <b>1985</b> , 87, K41-K44		6
26	The kinetics of thermal processes in imidazole-doped nanocrystalline cellulose solid proton conductor. <i>Cellulose</i> , <b>2020</b> , 27, 1989-2001	5.5	6

25	EPR evidence of the paramagnetism of a long-living metastable excited state of a sodium nitroprusside single crystal. <i>Chemical Physics Letters</i> , <b>1997</b> , 268, 471-474	2.5	5
24	<sup>1</sup> H NMR Relaxation Studies of Proton-Conducting Imidazolium Salts of Dicarboxylic Acids. <i>Applied Magnetic Resonance</i> , <b>2008</b> , 34, 163-173	0.8	5
23	NMR study of molecular dynamics in selected hydrophilic polymers. <i>Solid State Nuclear Magnetic Resonance</i> , <b>2004</b> , 25, 42-6	3.1	5
22	Proton magnetic resonance microimaging of human trabecular bone. <i>Solid State Nuclear Magnetic Resonance</i> , <b>1999</b> , 15, 91-8	3.1	5
21	Dynamics of water molecules in barium nitroprusside trihydrate studied at low temperature by proton NMR. <i>Molecular Physics</i> , <b>1994</b> , 83, 949-960	1.7	5
20	Properties of PVDF-MCM41 Nanocomposites Studied by Dielectric, Raman and NMR Spectroscopy. <i>Ferroelectrics</i> , <b>2014</b> , 472, 64-76	0.6	4
19	A nuclear magnetic resonance study of molecular motion in solid tris (n-propylammonium) enneachlorodiantimonate (III) (n-C <sub>3</sub> H <sub>7</sub> NH <sub>3</sub> ) <sub>3</sub> Sb <sub>2</sub> Cl <sub>9</sub> . <i>Solid State Nuclear Magnetic Resonance</i> , <b>1997</b> , 10, 73-8	3.1	4
18	NMR study of flip motion of the water molecules in SNP. <i>Physica Status Solidi A</i> , <b>1987</b> , 100, K57-K59		4
17	<sup>1</sup> H Spin Lattice Relaxation Study of Dynamical Inequivalence of Methyl Groups in Solid 1,2-O-(1-Ethylpropylidene)- $\beta$ -D-Glucopyranose. <i>Applied Magnetic Resonance</i> , <b>2009</b> , 36, 61-68	0.8	3
16	Spectroscopic and photopolymerization studies of benzyl methacrylate/poly(benzyl methacrylate) two-component system. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2010</b> , 48, 1336-1348	2.6	3
15	<sup>17</sup> O, <sup>14</sup> N and <sup>15</sup> N n.m.r. studies of the Co <sup>2+</sup> complexes of cyclo(Pro <sup>17</sup> O-Gly <sup>15</sup> N) and cyclo(Gly <sup>17</sup> O-Pro) in aqueous solution. <i>International Journal of Peptide and Protein Research</i> , <b>1989</b> , 34, 299-305		2
14	Melting behavior of water confined in nanopores of white cement studied by <sup>1</sup> H NMR cryoporometry: Effect of antifreeze additive and temperature. <i>Applied Magnetic Resonance</i> , <b>2005</b> , 29, 639-653	0.8	2
13	Molecular motions in solid [N(CH <sub>3</sub> ) <sub>2</sub> H <sub>2</sub> ] <sub>3</sub> Sb <sub>2</sub> I <sub>9</sub> studied by proton nuclear magnetic resonance spectroscopy. <i>Solid State Nuclear Magnetic Resonance</i> , <b>1995</b> , 4, 101-4	3.1	2
12	N.m.r. study of molecular dynamics in chemically crosslinked polyethylene. <i>Polymer</i> , <b>1985</b> , 26, 557-560	3.9	2
11	<sup>17</sup> O and <sup>14</sup> N n.m.r. studies of the Co (II) interaction with cyclo(Ala*-Ala) in aqueous solution. <i>International Journal of Peptide and Protein Research</i> , <b>1987</b> , 29, 406-14		1
10	Molecular motion in solid [(CH <sub>3</sub> ) <sub>2</sub> CHNH <sub>3</sub> ] <sub>2</sub> BiBr <sub>5</sub> and [(CH <sub>3</sub> ) <sub>2</sub> CHNH <sub>3</sub> ] <sub>2</sub> SbBr <sub>5</sub> as studied by proton nuclear magnetic resonance. <i>Molecular Physics</i> , <b>1997</b> , 92, 687-692	1.7	1
9	Nuclear magnetic resonance proton dynamics study of [N(CH <sub>3</sub> ) <sub>2</sub> H <sub>2</sub> ] <sub>3</sub> Bi <sub>2</sub> I <sub>9</sub> at low temperature. <i>Solid State Nuclear Magnetic Resonance</i> , <b>1995</b> , 4, 323-5	3.1	1
8	Motion of the water molecules and phase transitions in Sr[Fe(CN) <sub>5</sub> NO]*4H <sub>2</sub> O studied by proton NMR. <i>Molecular Physics</i> , <b>1995</b> , 86, 193-200	1.7	1

7	Gelation Process of Toluene-Based bis-Urea in Cyclohexane Studied with Magnetic Resonance Imaging. <i>Acta Physica Polonica A</i> , <b>2005</b> , 108, 81-87	0.6	1
6	Electron Spin Echo Envelope Modulation Analysis of SeO <sub>2</sub> Radical in (NH <sub>4</sub> ) <sub>3</sub> H(SeO <sub>4</sub> ) <sub>2</sub> Single Crystal. <i>Acta Physica Polonica A</i> , <b>1993</b> , 84, 1131-1141	0.6	1
5	Dynamics and Proton Transport in Imidazole-Doped Nanocrystalline Cellulose Revealed by High-Resolution Solid-State Nuclear Magnetic Resonance Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 18886-18893	3.8	1
4	Synthesis and characterization of triazole based nanocrystalline cellulose solid proton conductors. <i>European Polymer Journal</i> , <b>2021</b> , 161, 110825	5.2	0
3	NMR Study of the Molecular Dynamics of D-Amphetamine Sulfate Salt Powder. <i>Applied Magnetic Resonance</i> , <b>2008</b> , 33, 439-446	0.8	
2	The influence of the motion of water molecules on proton dipolar coupling tensors in Sr[Fe(CN) <sub>5</sub> NO]·4H <sub>2</sub> O. <i>Molecular Physics</i> , <b>1996</b> , 87, 139-149	1.7	
1	A Determination of the Dynamical Parameters in Amino Acids from Carboxylic- 17O NMR Linewidths Measurements <b>1990</b> , 584-585		