

Patryk Włodarczyk

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80
papers

1,469
citations

23
h-index

35
g-index

85
ext. papers

1,655
ext. citations

4
avg, IF

4.38
L-index

#	Paper	IF	Citations
80	Broadband dielectric relaxation study at ambient and elevated pressure of molecular dynamics of pharmaceutical: indomethacin. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 12536-45	3.4	116
79	Study of molecular dynamics of pharmaceutically important protic ionic liquid-verapamil hydrochloride. I. Test of thermodynamic scaling. <i>Journal of Chemical Physics</i> , 2009 , 131, 104505	3.9	75
78	Electrical Conduction Mechanism and Dielectric Properties of Spherical Shaped Fe O Nanoparticles Synthesized by Co-Precipitation Method. <i>Materials</i> , 2018 , 11,	3.5	72
77	Dielectric studies on mobility of the glycosidic linkage in seven disaccharides. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 12816-23	3.4	61
76	Molecular mobility in liquid and glassy states of telmisartan (TEL) studied by broadband dielectric spectroscopy. <i>European Journal of Pharmaceutical Sciences</i> , 2009 , 38, 395-404	5.1	56
75	Molecular dynamics of itraconazole at ambient and high pressure. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 20742-52	3.6	54
74	Dielectric relaxation studies and dissolution behavior of amorphous verapamil hydrochloride. <i>Journal of Pharmaceutical Sciences</i> , 2010 , 99, 828-39	3.9	53
73	Dielectric and electromagnetic interference shielding properties of high entropy (Zn,Fe,Ni,Mg,Cd)FeO ferrite. <i>Scientific Reports</i> , 2019 , 9, 20078	4.9	51
72	Enhancement of amorphous celecoxib stability by mixing it with octaacetylmaltose: the molecular dynamics study. <i>Molecular Pharmaceutics</i> , 2012 , 9, 894-904	5.6	49
71	On the kinetics of tautomerism in drugs: New application of broadband dielectric spectroscopy. <i>Journal of Chemical Physics</i> , 2010 , 133, 094507	3.9	46
70	Identification of the molecular motions responsible for the slower secondary (beta) relaxation in sucrose. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 7662-8	3.4	45
69	Identifying the origins of two secondary relaxations in polysaccharides. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 10088-96	3.4	43
68	Molecular origin of enhanced proton conductivity in anhydrous ionic systems. <i>Journal of the American Chemical Society</i> , 2015 , 137, 1157-64	16.4	37
67	Mutarotation in D-fructose melt monitored by dielectric spectroscopy. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 4379-83	3.4	37
66	Origin of the commonly observed secondary relaxation process in saccharides. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 11272-81	3.4	31
65	Dielectric relaxation study on tramadol monohydrate and its hydrochloride salt. <i>Journal of Pharmaceutical Sciences</i> , 2010 , 99, 94-106	3.9	29
64	Revealing the Charge Transport Mechanism in Polymerized Ionic Liquids: Insight from High Pressure Conductivity Studies. <i>Chemistry of Materials</i> , 2017 , 29, 8082-8092	9.6	27

63	Structure, temperature and frequency dependent electrical conductivity of oxidized and reduced electrochemically exfoliated graphite. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018 , 99, 82-90	3	26
62	Molecular dynamics of the supercooled pharmaceutical agent posaconazole studied via differential scanning calorimetry and dielectric and mechanical spectroscopies. <i>Molecular Pharmaceutics</i> , 2013 , 10, 3934-45	5.6	26
61	A new way of stabilization of furosemide upon cryogenic grinding by using acylated saccharides matrices. The role of hydrogen bonds in decomposition mechanism. <i>Molecular Pharmaceutics</i> , 2013 , 10, 1824-35	5.6	26
60	Studying the Impact of Modified Saccharides on the Molecular Dynamics and Crystallization Tendencies of Model API Nifedipine. <i>Molecular Pharmaceutics</i> , 2015 , 12, 3007-19	5.6	25
59	Communication: Synperiplanar to antiperiplanar conformation changes as underlying the mechanism of Debye process in supercooled ibuprofen. <i>Journal of Chemical Physics</i> , 2013 , 139, 111103	3.9	25
58	Kinetic processes in supercooled monosaccharides upon melting: Application of dielectric spectroscopy in the mutarotation studies of D-ribose. <i>Journal of Chemical Physics</i> , 2010 , 132, 195104	3.9	24
57	Identification of the slower secondary relaxation nature in maltose by means of theoretical and dielectric studies. <i>Journal of Chemical Physics</i> , 2009 , 131, 125103	3.9	23
56	Comparative dielectric studies on two hydrogen-bonded and van der Waals liquids. <i>Physical Review E</i> , 2011 , 83, 061506	2.4	21
55	Comparative Study on the Molecular Dynamics of a Series of Polypropylene Glycols. <i>Macromolecules</i> , 2013 , 46, 1973-1980	5.5	20
54	Study of molecular dynamics of the pharmaceutically important protic ionic liquid verapamil hydrochloride. II. Test of entropic models. <i>Journal of Chemical Physics</i> , 2010 , 132, 094506	3.9	19
53	Dielectric studies on molecular dynamics of two important disaccharides: sucrose and trehalose. <i>Molecular Pharmaceutics</i> , 2012 , 9, 1559-69	5.6	17
52	Dielectric properties of two diastereoisomers of the arabinose and their equimolar mixture. <i>Carbohydrate Research</i> , 2009 , 344, 2547-53	2.9	17
51	The importance of the activation volume for the description of the molecular dynamics of glass-forming liquids. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 065105	1.8	16
50	Dielectric relaxation study of the dynamics of monosaccharides: D-ribose and 2-deoxy-D-ribose. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 335104	1.8	16
49	Electrical properties of epoxy nanocomposites containing Fe ₃ O ₄ nanoparticles and Fe ₃ O ₄ nanoparticles deposited on the surface of electrochemically exfoliated and oxidized graphite. <i>Applied Surface Science</i> , 2019 , 474, 66-77	6.7	16
48	Characterization of magnetocaloric effect, magnetic ordering and electronic structure in the GdFe _{1-x} CoxSi intermetallic compounds. <i>Materials Chemistry and Physics</i> , 2015 , 162, 273-278	4.4	14
47	Observation of the dynamics of clusters in D-glucose with the use of dielectric spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 723-30	3.6	14
46	Mechanism of mutarotation in supercooled liquid phase: Studies on L-sorbose. <i>Journal of Chemical Physics</i> , 2012 , 137, 124504	3.9	13

45	Description of mutarotational kinetics in supercooled monosugars. <i>Journal of Non-Crystalline Solids</i> , 2010 , 356, 738-742	3.9	13
44	Experimental evidence of high pressure decoupling between charge transport and structural dynamics in a protic ionic glass-former. <i>Scientific Reports</i> , 2017 , 7, 7084	4.9	12
43	Nanoscale domains with nematic order in supercooled vitamin-A acetate: molecular dynamics studies. <i>Physical Review E</i> , 2011 , 83, 051502	2.4	12
42	Studies on mechanism of reaction and density behavior during anhydrous D-fructose mutarotation in the supercooled liquid state. <i>Journal of Chemical Physics</i> , 2011 , 134, 175102	3.9	12
41	Tracking of Proton Transfer Reaction in Supercooled RNA Nucleoside. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 2288-92	6.4	11
40	A mutarotation mechanism based on dual proton exchange in the amorphous D-glucose. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 4694-8	3.6	9
39	Fragility versus activation volume: insight into molecular dynamics of glass-forming hydrogen-bonded liquids. <i>Physical Review E</i> , 2011 , 84, 052501	2.4	9
38	Role of hydrogen bonds and molecular structure in relaxation dynamics of pentiol isomers. <i>Physical Review E</i> , 2012 , 85, 052501	2.4	9
37	Impact of silicon doping on the magnetocaloric effect of MnFeP _{0.35} As _{0.65} powder. <i>Solid State Sciences</i> , 2016 , 56, 23-28	3.4	9
36	Structural, magnetic, and magnetocaloric properties of Fe ₇ Se ₈ single crystals. <i>Journal of Applied Physics</i> , 2018 , 124, 143902	2.5	9
35	Thermodynamic approach for determining chemical composition of Fe-Co based amorphous alloys with high thermal stability and glass forming ability. <i>Journal of Alloys and Compounds</i> , 2018 , 763, 141-152	5.7	9
34	Dynamics of Hexralone at elevated pressure and in mixture with oligostyrene. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 22-9	3.4	8
33	Rheological study of mutarotation of fructose in anhydrous state. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 1475-9	3.4	8
32	The indications of tautomeric conversion in amorphous bicalutamide drug. <i>European Journal of Pharmaceutical Sciences</i> , 2017 , 110, 117-123	5.1	7
31	Dynamics of the slow mode in the family of six-carbon monosaccharides monitored by dielectric spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 365103	1.8	7
30	Influence of water on the dielectric properties, electrical conductivity and microwave absorption properties of amorphous yellow dextrin. <i>Cellulose</i> , 2019 , 26, 2987-2998	5.5	7
29	Influence of Cu Content on Structure and Magnetic Properties in FeCuB Alloys. <i>Materials</i> , 2020 , 13,	3.5	5
28	Correlation between nanocrystalline and magnetic structure of Co-based alloys with the induced transverse magnetic anisotropy. <i>Journal of Applied Physics</i> , 2014 , 115, 183904	2.5	5

27	Effect of Au addition on the corrosion activity of Ca-Mg-Zn bulk metallic glasses in Ringer's solution. <i>Materials Chemistry and Physics</i> , 2019 , 226, 51-58	4.4	5
26	Microwave absorption by dextrin-magnetite nanocomposite in frequencies below 2.5 GHz: Role of magnetite content, shape and temperature on magneto-dielectric properties. <i>Materials and Design</i> , 2020 , 193, 108860	8.1	4
25	The atomic scale structure of glass-like carbon obtained from fullerene extract via spark plasma sintering. <i>Carbon</i> , 2016 , 110, 172-179	10.4	4
24	Impact of cobalt content on the crystallization pattern in the Finemet-type ribbons. <i>Journal of Alloys and Compounds</i> , 2014 , 615, S203-S207	5.7	4
23	The effect of doping on magnetic properties of $(\text{Fe}_{1-x}\text{Mn}_x)_2\text{P}_{1-y}\text{Si}_y$ series. <i>Solid State Communications</i> , 2015 , 224, 41-45	1.6	4
22	Theoretical and experimental studies on the internal mobility of two sulfonylurea agents: glibenclamide and glimepiride. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 425901	1.8	4
21	Microscopic origin of secondary modes observed in decahydroisoquinoline. <i>Journal of Molecular Structure</i> , 2010 , 975, 200-204	3.4	4
20	Influence of Cu Content on Structure, Thermal Stability and Magnetic Properties in FeNiNbCuSiB Alloys. <i>Materials</i> , 2021 , 14,	3.5	4
19	The atomic scale structure of dahlia-like single wall carbon nanohorns produced by direct vaporization of graphite. <i>Diamond and Related Materials</i> , 2017 , 72, 26-31	3.5	3
18	Comment on "Study of dielectric relaxations of anhydrous trehalose and maltose glasses" [J. Chem. Phys. 134, 014508 (2011)]. <i>Journal of Chemical Physics</i> , 2011 , 135, 167102	3.9	3
17	Magnetic and Structural Study of $\text{Mn}_{1.15}\text{Fe}_{0.85}\text{P}_{1-x}\text{Ge}_x$ (0.25). <i>Acta Physica Polonica A</i> , 2015 , 128, 76-80	0.6	3
16	Influence of copper addition and heat treatment parameters on nanocrystallization process of Fe-Co-Mo-B-Si amorphous ribbons with high saturation magnetization about 1.6 T. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 496, 165951	2.8	3
15	Influence of Magnetite Nanoparticles Shape and Spontaneous Surface Oxidation on the Electron Transport Mechanism. <i>Materials</i> , 2021 , 14,	3.5	3
14	Magnetocaloric Properties of MnFePAsGe (0 ≤ x ≤ 1) Compounds. <i>Materials</i> , 2017 , 10,	3.5	2
13	Dielectric properties of glassy disaccharides for electromagnetic interference shielding application. <i>Journal of Applied Physics</i> , 2015 , 118, 184102	2.5	2
12	Mutarotation in biologically important pure L-fucose and its enantiomer. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 375101	1.8	2
11	The Structure and Magnetic Properties of Rapidly Quenched FeNiNbSiB Alloy. <i>Materials</i> , 2020 , 14,	3.5	2
10	Effect of Co Substitution and Thermo-Magnetic Treatment on the Structure and Induced Magnetic Anisotropy of FeCoNbBP Nanocrystalline Alloys. <i>Materials</i> , 2021 , 14,	3.5	2

9	Thermodynamically controlled crystallization of glucose pentaacetates from amorphous phase. <i>AIP Advances</i> , 2016 , 6, 085221	1.5	2
8	Temperature-Driven Changes of Electronic Structure Through the Phase Transition in Magnetocaloric Compound Mn _{1.1} Fe _{0.9} P _{0.55} As _{0.45} . <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	1
7	Effect of Co Substitution on Crystallization and Magnetic Behavior of FeCoCuB Metallic Glass. <i>Materials</i> , 2020 , 13,	3.5	1
6	Ultraslow electron-phonon scattering and polaron formation in magnetite. <i>Journal of Materiomics</i> , 2021 , 8, 150-150	6.7	1
5	Effect of changing P/Ge and Mn/Fe ratios on the magnetocaloric effect and structural transition in the (Mn,Fe) ₂ (P,Ge) intermetallic compounds. <i>Materials Science-Poland</i> , 2016 , 34, 494-502	0.6	1
4	Chemical hydrogenation of La(Fe,Si) family of intermetallic compounds. <i>Solid State Sciences</i> , 2016 , 61, 246-251	3.4	1
3	Fe-Co-B Soft Magnetic Ribbons: Crystallization Process, Microstructure and Coercivity. <i>Materials</i> , 2020 , 13,	3.5	1
2	Magnetic moments and exchange splitting in Mn3s and Mn2p core levels of magnetocaloric Mn _{1.1} Fe _{0.9} P _{0.6} As _{0.4} and Mn _{1.1} Fe _{0.9} P _{0.5} As _{0.4} Si _{0.1} compounds. <i>Physica B: Condensed Matter</i> , 2018 , 549, 127-132	2.8	1
1	Broadband dielectric spectroscopy for monitoring temperature-dependent chloride ion motion in BiOCl plates. <i>Scientific Reports</i> , 2020 , 10, 22094	4.9	0