

Justyna Knapik-Kowalczyk

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67
papers

1,197
citations

19
h-index

31
g-index

68
ext. papers

1,415
ext. citations

5.1
avg, IF

4.64
L-index

#	Paper	IF	Citations
67	Inhibition of celecoxib crystallization by mesoporous silica - molecular dynamics studies leading to the discovery of the stabilization origin.. <i>European Journal of Pharmaceutical Sciences</i> , 2022 , 106132	5.1	1
66	How Does Long-Term Storage Influence the Physical Stability and Dissolution of Bicalutamide from Solid Dispersions and Minitablets?. <i>Processes</i> , 2022 , 10, 1002	2.9	
65	How to Obtain the Maximum Properties Flexibility of 3D Printed Ketoprofen Tablets Using Only One Drug-Loaded Filament?. <i>Molecules</i> , 2021 , 26,	4.8	2
64	Current research trends in dielectric relaxation studies of amorphous pharmaceuticals: Physical stability, tautomerism, and the role of hydrogen bonding. <i>TrAC - Trends in Analytical Chemistry</i> , 2021 , 134, 116097	14.6	6
63	High-Pressure Dielectric Studies-a Way to Experimentally Determine the Solubility of a Drug in the Polymer Matrix at Low Temperatures. <i>Molecular Pharmaceutics</i> , 2021 , 18, 3050-3062	5.6	2
62	Ternary Eutectic Ezetimibe-Simvastatin-Fenofibrate System and the Physical Stability of Its Amorphous Form. <i>Molecular Pharmaceutics</i> , 2021 , 18, 3588-3600	5.6	5
61	Broadband-dielectric-spectroscopy study of molecular dynamics in a mixture of itraconazole and glycerol in glassy, smectic-A, and isotropic phases. <i>Physical Review E</i> , 2021 , 104, 034702	2.4	1
60	The effect of high-pressure on organocatalyzed ROP of ϵ -butyrolactone. <i>Polymer</i> , 2021 , 233, 124166	3.9	1
59	How Does the Addition of KollidonVA64 Inhibit the Recrystallization and Improve Ezetimibe Dissolution from Amorphous Solid Dispersions?. <i>Pharmaceutics</i> , 2021 , 13,	6.4	4
58	Multivariate Design of 3D Printed Immediate-Release Tablets with Liquid Crystal-Forming Drug-Itraconazole. <i>Materials</i> , 2020 , 13,	3.5	7
57	Compression-Induced Phase Transitions of Bicalutamide. <i>Pharmaceutics</i> , 2020 , 12,	6.4	8
56	Pressure-assisted solvent- and catalyst-free production of well-defined poly(1-vinyl-2-pyrrolidone) for biomedical applications.. <i>RSC Advances</i> , 2020 , 10, 21593-21601	3.7	2
55	Molecular Dynamics and Physical Stability of Ibuprofen in Binary Mixtures with an Acetylated Derivative of Maltose. <i>Molecular Pharmaceutics</i> , 2020 , 17, 3087-3105	5.6	2
54	Rheo-dielectric studies of the kinetics of shear-induced nematic alignment changes in itraconazole. <i>Journal of Molecular Liquids</i> , 2020 , 302, 112494	6	4
53	Essential meaning of high pressure measurements in discerning the properties of monohydroxy alcohols with a single phenyl group. <i>Journal of Molecular Liquids</i> , 2020 , 305, 112863	6	7
52	Importance of Mesoporous Silica Particle Size in the Stabilization of Amorphous Pharmaceuticals-The Case of Simvastatin. <i>Pharmaceutics</i> , 2020 , 12,	6.4	7
51	Enhancement of the Physical Stability of Amorphous Sildenafil in a Binary Mixture, with either a Plasticizing or Antiplasticizing Compound. <i>Pharmaceutics</i> , 2020 , 12,	6.4	4

50	Speed it up, slow it downAn issue of bicalutamide release from 3D printed tablets. <i>European Journal of Pharmaceutical Sciences</i> , 2020 , 143, 105169	5.1	24
49	Tabletting solid dispersions of bicalutamide prepared using ball-milling or supercritical carbon dioxide: the interrelationship between phase transition and dissolution. <i>Pharmaceutical Development and Technology</i> , 2020 , 25, 1109-1117	3.4	1
48	Isochronal Conditions-The Key To Maintain the Given Solubility Limit, of a Small Molecule within the Polymer Matrix, at Elevated Pressure. <i>Molecular Pharmaceutics</i> , 2020 , 17, 3730-3739	5.6	2
47	Crystallization of Amorphous Pharmaceuticals at Ambient and Elevated Pressure Conditions. <i>Advances in Dielectrics</i> , 2020 , 55-87	0.6	1
46	Molecular dynamics, viscoelastic properties and physical stability studies of a new amorphous dihydropyridine derivative with T-type calcium channel blocking activity. <i>European Journal of Pharmaceutical Sciences</i> , 2020 , 141, 105083	5.1	6
45	Molecular relaxations in supercooled liquid and glassy states of amorphous gambogic acid: Dielectric spectroscopy, calorimetry, and theoretical approach. <i>AIP Advances</i> , 2020 , 10, 025128	1.5	9
44	Broadband dielectric spectroscopy as an experimental alternative to calorimetric determination of the solubility of drugs into polymer matrix: Case of flutamide and various polymeric matrixes. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019 , 136, 231-239	5.7	16
43	Theoretical Model for the Structural Relaxation Time in Coamorphous Drugs. <i>Molecular Pharmaceutics</i> , 2019 , 16, 2992-2998	5.6	16
42	Effect of Cation n-Alkyl Side-Chain Length, Temperature, and Pressure on the Glass-Transition Dynamics and Crystallization Tendency of the [CnC1Pyrr]+[Tf2N] Ionic Liquid Family. <i>Journal of Physical Chemistry C</i> , 2019 ,	3.8	11
41	Physical Stability and Viscoelastic Properties of Co-Amorphous Ezetimibe/Simvastatin System. <i>Pharmaceutics</i> , 2019 , 12,	5.2	10
40	The Self-Assembly Phenomenon of Poloxamers and Its Effect on the Dissolution of a Poorly Soluble Drug from Solid Dispersions Obtained by Solvent Methods. <i>Pharmaceutics</i> , 2019 , 11,	6.4	12
39	Influence of Polymeric Additive on the Physical Stability and Viscoelastic Properties of Aripiprazole. <i>Molecular Pharmaceutics</i> , 2019 , 16, 1742-1750	5.6	13
38	Effect of electrostatic interactions on the relaxation dynamics of pharmaceutical eutectics. <i>European Journal of Pharmaceutical Sciences</i> , 2019 , 134, 93-101	5.1	2
37	How does the high pressure affects the solubility of the drug within the polymer matrix in solid dispersion systems. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019 , 143, 8-17	5.7	9
36	Glass Transition Dynamics and Physical Stability of Amorphous Griseofulvin in Binary Mixtures with Low- Excipients. <i>Molecular Pharmaceutics</i> , 2019 , 16, 3626-3635	5.6	9
35	Enhanced dissolution of solid dispersions containing bicalutamide subjected to mechanical stress. <i>International Journal of Pharmaceutics</i> , 2018 , 542, 18-26	6.5	13
34	Can Storage Time Improve the Physical Stability of Amorphous Pharmaceuticals with Tautomerization Ability Exposed to Compression? The Case of a Chloramphenicol Drug. <i>Molecular Pharmaceutics</i> , 2018 , 15, 1928-1940	5.6	13
33	Co-Stabilization of Amorphous Pharmaceuticals-The Case of Nifedipine and Nimodipine. <i>Molecular Pharmaceutics</i> , 2018 , 15, 2455-2465	5.6	31

32	Changes in Physical Stability of Supercooled Etoricoxib after Compression. <i>Molecular Pharmaceutics</i> , 2018 , 15, 3969-3978	5.6	15
31	The effect of electrostatic interactions on the formation of pharmaceutical eutectics. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 27361-27367	3.6	14
30	Enhanced pharmacological efficacy of sumatriptan due to modification of its physicochemical properties by inclusion in selected cyclodextrins. <i>Scientific Reports</i> , 2018 , 8, 16184	4.9	13
29	Molecular Disorder of Bicalutamide-Amorphous Solid Dispersions Obtained by Solvent Methods. <i>Pharmaceutics</i> , 2018 , 10,	6.4	11
28	Molecular Dynamics, Recrystallization Behavior, and Water Solubility of the Amorphous Anticancer Agent Bicalutamide and Its Polyvinylpyrrolidone Mixtures. <i>Molecular Pharmaceutics</i> , 2017 , 14, 1071-1087	5.6	35
27	New limits of secondary β -relaxation. <i>Scientific Reports</i> , 2017 , 7, 43091	4.9	5
26	Molecular Factors Governing the Liquid and Glassy States Recrystallization of Celecoxib in Binary Mixtures with Excipients of Different Molecular Weights. <i>Molecular Pharmaceutics</i> , 2017 , 14, 1154-1168	5.6	22
25	How is charge transport different in ionic liquids? The effect of high pressure. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 14141-14147	3.6	13
24	3D printed orodispersible films with Aripiprazole. <i>International Journal of Pharmaceutics</i> , 2017 , 533, 413-420	4.3	137
23	Planetary ball milling and supercritical fluid technology as a way to enhance dissolution of bicalutamide. <i>International Journal of Pharmaceutics</i> , 2017 , 533, 470-479	6.5	29
22	Crystallization of supercooled fenofibrate studied at ambient and elevated pressures. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 9879-9888	3.6	16
21	The dielectric signature of glass density. <i>Applied Physics Letters</i> , 2017 , 111, 121902	3.4	10
20	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
19	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
18	A New Method To Identify Physically Stable Concentration of Amorphous Solid Dispersions (I): Case of Flutamide + Kollidon VA64. <i>Molecular Pharmaceutics</i> , 2017 , 14, 3370-3380	5.6	29
17	Atorvastatin as a Promising Crystallization Inhibitor of Amorphous Probucof: Dielectric Studies at Ambient and Elevated Pressure. <i>Molecular Pharmaceutics</i> , 2017 , 14, 2670-2680	5.6	24
16	Dielectric Relaxation Study at Ambient and Elevated Pressure of the Modeled Lipophilic Drug Fenofibrate. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 11298-11306	3.4	14
15	Stabilization of the Amorphous Ezetimibe Drug by Confining Its Dimension. <i>Molecular Pharmaceutics</i> , 2016 , 13, 1308-16	5.6	36

14	Amorphous Protic Ionic Systems as Promising Active Pharmaceutical Ingredients: The Case of the Sumatriptan Succinate Drug. <i>Molecular Pharmaceutics</i> , 2016 , 13, 1111-22	5.6	13
13	Molecular Dynamics and Physical Stability of Amorphous Nimesulide Drug and Its Binary Drug-Polymer Systems. <i>Molecular Pharmaceutics</i> , 2016 , 13, 1937-46	5.6	32
12	Synthesis, characterization and dielectric relaxation study of hyperbranched polymers with different molecular architecture. <i>Polymer</i> , 2016 , 100, 227-237	3.9	16
11	Glass transition dynamics and conductivity scaling in ionic deep eutectic solvents: The case of (acetamide + lithium nitrate/sodium thiocyanate) melts. <i>Journal of Chemical Physics</i> , 2015 , 142, 184504	3.9	37
10	Dynamic Properties of Glass-Formers Governed by the Frequency Dispersion of the Structural Relaxation: Examples from Prilocaine. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 12699-707	3.4	5
9	Toward a Better Understanding of the Physical Stability of Amorphous Anti-Inflammatory Agents: The Roles of Molecular Mobility and Molecular Interaction Patterns. <i>Molecular Pharmaceutics</i> , 2015 , 12, 3628-38	5.6	33
8	Molecular Dynamics and Physical Stability of Coamorphous Ezetimib and Indapamide Mixtures. <i>Molecular Pharmaceutics</i> , 2015 , 12, 3610-9	5.6	62
7	Effect of Pressure on Decoupling of Ionic Conductivity from Segmental Dynamics in Polymerized Ionic Liquids. <i>Macromolecules</i> , 2015 , 48, 8660-8666	5.5	42
6	On the molecular origin of secondary relaxations in amorphous protic ionic conductor chlorpromazine hydrochloride: High pressure dielectric studies. <i>Journal of Non-Crystalline Solids</i> , 2015 , 407, 81-87	3.9	11
5	Physicochemical properties of tadalafil solid dispersions - Impact of polymer on the apparent solubility and dissolution rate of tadalafil. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015 , 94, 106-15	5.7	61
4	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
3	New insight into relaxation dynamics of an epoxy/hydroxy functionalized polybutadiene from dielectric and mechanical spectroscopy studies. <i>Colloid and Polymer Science</i> , 2014 , 292, 1853-1862	2.4	6
2	Conductivity Mechanism in Polymerized Imidazolium-Based Protic Ionic Liquid [HSO ₃ BVIm][OTf]: Dielectric Relaxation Studies. <i>Macromolecules</i> , 2014 , 47, 4056-4065	5.5	73
1	Physical stability of the amorphous anticholesterol agent (ezetimibe): the role of molecular mobility. <i>Molecular Pharmaceutics</i> , 2014 , 11, 4280-90	5.6	46