Magdalena Tarnacka

List of Publications by Citations

99	1,156	19	26
papers	citations	h-index	g-index

102	1,339	4.7	4.45
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
99	Molecular dynamics of itraconazole at ambient and high pressure. *Physical Chemistry Chemical Physics*, **2013**, 15, 20742-52	3.6	54
98	Decoupling between the Interfacial and Core Molecular Dynamics of Salol in 2D Confinement. *Journal of Physical Chemistry C*, **2015**, 119, 14366-14374	3.8	43
97	Studies on the Temperature and Time Induced Variation in the Segmental and Chain Dynamics in Poly(propylene glycol) Confined at the Nanoscale. *Macromolecules*, **2016**, 49, 6678-6686	5.5	40
96	Enhanced Polymerization Rate and Conductivity of Ionic Liquid-Based Epoxy Resin. *Macromolecules*, **2017**, 50, 3262-3272	5.5	37
95	Interplay between Core and Interfacial Mobility and Its Impact on the Measured Glass Transition: Dielectric and Calorimetric Studies. *Journal of Physical Chemistry C*, **2016**, 120, 7373-7380	3.8	33
94	Predicting Nanoscale Dynamics of a Glass-Forming Liquid from Its Macroscopic Bulk Behavior and Vice Versa. *Journal of Physical Chemistry Letters*, **2017**, 8, 696-702	6.4	32
93	The peculiar behavior of the molecular dynamics of a glass-forming liquid confined in native porous materials - the role of negative pressure. *Physical Chemistry Chemical Physics*, **2016**, 18, 23709-14	3.6	31
92	Molecular dynamics in supercooled liquid and glassy states of antibiotics: azithromycin, clarithromycin and roxithromycin studied by dielectric spectroscopy. Advantages given by the amorphous state. *Molecular Pharmaceutics*, **2012**, 9, 1748-63	5.6	30
91	The Role of Interfacial Energy and Specific Interactions on the Behavior of Poly(propylene glycol) Derivatives under 2D Confinement. *Macromolecules*, **2018**, 51, 4840-4852	5.5	29
90	Molecular dynamics of the supercooled pharmaceutical agent posaconazole studied via differential scanning calorimetry and dielectric and mechanical spectroscopies. *Molecular Pharmaceutics*, **2013**, 10, 3934-45	5.6	26
89	A new way of stabilization of furosemide upon cryogenic grinding by using acylated saccharides matrices. The role of hydrogen bonds in decomposition mechanism. *Molecular Pharmaceutics*, **2013**, 10, 1824-35	5.6	26
88	Studying the Impact of Modified Saccharides on the Molecular Dynamics and Crystallization Tendencies of Model API Nifedipine. *Molecular Pharmaceutics*, **2015**, 12, 3007-19	5.6	25
87	Molecular dynamics of itraconazole confined in thin supported layers. *RSC Advances*, **2014**, 4, 28432-28438	3.9	24
86	Impact of inter- and intramolecular interactions on the physical stability of indomethacin dispersed in acetylated saccharides. *Molecular Pharmaceutics*, **2014**, 11, 2935-47	5.6	22
85	Following kinetics and dynamics of DGEBA-aniline polymerization in nanoporous native alumina oxide membranes FTIR and dielectric studies. *Polymer*, **2015**, 68, 253-261	3.9	22
84	Glassy dynamics and physical aging in fucose saccharides as studied by infrared- and broadband dielectric spectroscopy. *Physical Chemistry Chemical Physics*, **2013**, 15, 20641-50	3.6	20
83	A facile route to well-defined imidazolium-based poly(ionic liquid)s of enhanced conductivity via RAFT. *Polymer Chemistry*, **2017**, 8, 5433-5443	4.9	20

82	High pressure dielectric studies on the structural and orientational glass. *Journal of Chemical Physics*, **2016**, 144, 054503	3.9	20
81	Polymerization of Monomeric Ionic Liquid Confined within Uniaxial Alumina Pores as a New Way of Obtaining Materials with Enhanced Conductivity. *ACS Applied Materials & Interfaces*, **2016**, 8, 29779-29790	9.5	20
80	Confinement-Induced Changes in the Glassy Dynamics and Crystallization Behavior of Supercooled Fenofibrate. *Journal of Physical Chemistry C*, **2018**, 122, 1384-1395	3.8	19
79	Crystallization Kinetics under Confinement. Manipulation of the Crystalline Form of Salol by Varying Pore Diameter. *Crystal Growth and Design*, **2016**, 16, 1218-1227	3.5	19
78	Time and Temperature as Key Parameters Controlling Dynamics and Properties of Spatially Restricted Polymers. *Macromolecules*, **2017**, 50, 5188-5193	5.5	19
77	Kinetics and Dynamics of the Curing System. High Pressure Studies. *Macromolecules*, **2014**, 47, 4288-4297	5.5	18
76	Impact of water on molecular dynamics of amorphous □ □ and □cyclodextrins studied by dielectric spectroscopy. *Physical Review E*, **2012**, 86, 031506	2.4	18
75	The Impact of Molecular Weight on the Behavior of Poly(propylene glycol) Derivatives Confined within Alumina Templates. *Macromolecules*, **2019**, 52, 3516-3529	5.5	17
74	Dielectric studies on molecular dynamics of two important disaccharides: sucrose and trehalose. *Molecular Pharmaceutics*, **2012**, 9, 1559-69	5.6	17
73	Impact of the Interfacial Energy and Density Fluctuations on the Shift of the Glass-Transition Temperature of Liquids Confined in Pores. *Journal of Physical Chemistry C*, **2019**, 123, 5549-5556	3.8	17
72	Variation in the Molecular Dynamics of DGEBA Confined within AAO Templates above and below the Glass-Transition Temperature. *Journal of Physical Chemistry C*, **2018**, 122, 28033-28044	3.8	17
71	The effect of hydrogen bonding propensity and enantiomeric composition on the dynamics of supercooled ketoprofen - dielectric, rheological and NMR studies. *Physical Chemistry Chemical Physics*, **2016**, 18, 10585-93	3.6	16
70	Impact of high pressure on the progress of polymerization of DGEBA cured with different amine hardeners: dielectric and DSC studies. *RSC Advances*, **2015**, 5, 105934-105942	3.7	14
69	Impact of low molecular weight excipient octaacetylmaltose on the liquid crystalline ordering and molecular dynamics in the supercooled liquid and glassy state of itraconazole. *European Journal of Pharmaceutics and Biopharmaceutics*, **2014**, 88, 1094-104	5.7	14
68	Exploring the Crystallization Tendency of Glass-Forming Liquid Indomethacin in the T□ Plane by Finding Different Iso-Invariant Points. *Crystal Growth and Design*, **2016**, 16, 7000-7010	3.5	14
67	Studying of crystal growth and overall crystallization of naproxen from binary mixtures. *European Journal of Pharmaceutics and Biopharmaceutics*, **2017**, 113, 75-87	5.7	13
66	Studying the Crystallization of Various Polymorphic Forms of Nifedipine from Binary Mixtures with the Use of Different Experimental Techniques. *Molecular Pharmaceutics*, **2017**, 14, 2116-2125	5.6	13
65	Changes in dynamics of the glass-forming pharmaceutical nifedipine in binary mixtures with octaacetylmaltose. *European Journal of Pharmaceutics and Biopharmaceutics*, **2015**, 97, 185-91	5.7	13

64	Highly Efficient ROP Polymerization of ε-Caprolactone Catalyzed by Nanoporous Alumina Membranes. How the Confinement Affects the Progress and Product of ROP Reaction. *Macromolecules*, **2018**, 51, 4588-4597	5.5	13
63	Changing the Tendency of Glass-Forming Liquid To Crystallize by Moving Along Different Isolines in the T-P Phase Diagram. *Crystal Growth and Design*, **2016**, 16, 6263-6268	3.5	12
62	Enhancement of the physical stability of amorphous indomethacin by mixing it with octaacetylmaltose. inter and intra molecular studies. *Pharmaceutical Research*, **2014**, 31, 2887-903	4.5	12
61	High pressure water-initiated ring opening polymerization for the synthesis of well-defined α-hydroxy-ω-(carboxylic acid) polycaprolactones. *Green Chemistry*, **2017**, 19, 3618-3627	10	12
60	Structure-property relationships of tailored imidazolium- and pyrrolidinium-based poly(ionic liquid)s. Solid-like vs. gel-like systems. *Polymer*, **2020**, 192, 122262	3.9	11
59	Studying molecular dynamics of the slow, structural, and secondary relaxation processes in series of substituted ibuprofens. *Journal of Chemical Physics*, **2018**, 148, 224505	3.9	11
58	High pressure studies on structural and secondary relaxation dynamics in silyl derivative of D-glucose. *Journal of Chemical Physics*, **2017**, 147, 064502	3.9	11
57	High pressure polymerization of glycidol. Kinetics studies. *Polymer*, **2014**, 55, 1984-1990	3.9	10
56	Studying the catalytic activity of DBU and TBD upon water-initiated ROP of ε-caprolactone under different thermodynamic conditions. *Polymer Chemistry*, **2019**, 10, 6047-6061	4.9	10
55	Studies on the hard confinement effect on the RAFT polymerization of a monomeric ionic liquid. Unexpected triggering of RAFT polymerization at 30 °C. *Polymer Chemistry*, **2018**, 9, 335-345	4.9	10
54	Conformational changes underlying variation in the structural dynamics of materials confined at the nanometric scale. *Physical Chemistry Chemical Physics*, **2018**, 20, 30200-30208	3.6	10
53	High-pressure dielectric studies on 1,6-anhydro-β-D-mannopyranose (plastic crystal) and 2,3,4-tri-O-acetyl-1,6-anhydro-β-D-glucopyranose (canonical glass). *Journal of Chemical Physics*, **2018**, 148, 204510	3.9	10
52	High pressure RAFT of sterically hindered ionic monomers. Studying relationship between rigidity of the polymer backbone and conductivity. *Polymer*, **2018**, 140, 158-166	3.9	9
51	Is There a Liquid−Liquid Phase Transition in Confined Triphenyl Phosphite?. *Journal of Physical Chemistry C*, **2017**, 121, 19442-19450	3.8	9
50	Interplay between the static ordering and dynamical heterogeneities determining the dynamics of rotation and ordinary liquid phases in 1,6-anhydro-β-D-glucose. *Scientific Reports*, **2017**, 7, 42103	4.9	9
49	Breakdown of the isochronal structural (α) and secondary (JG β) exact superpositioning in probucol - A low molecular weight pharmaceutical. *Journal of Molecular Liquids*, **2020**, 299, 112169	6	9
48	Studies on the radical polymerization of monomeric ionic liquids: nanostructure ordering as a key factor controlling the reaction and properties of nascent polymers. *Polymer Chemistry*, **2016**, 7, 6363-6374	4.9	9
47	Are hydrogen supramolecular structures being suppressed upon nanoscale confinement? The case of monohydroxy alcohols. *Journal of Colloid and Interface Science*, **2020**, 576, 217-229	9.3	8

46	Impact of Imidazolium-Based Ionic Liquids on the Curing Kinetics and Physicochemical Properties of Nascent Epoxy Resins. *Macromolecules*, **2020**, 53, 6341-6352	5.5	8
45	Efficient metal-free strategies for polymerization of a sterically hindered ionic monomer through the application of hard confinement and high pressure.. *RSC Advances*, **2019**, 9, 6396-6408	3.7	8
44	Impact of Intermolecular Interactions, Dimeric Structures on the Glass Forming Ability of Naproxen, and a Series of Its Derivatives. *Molecular Pharmaceutics*, **2018**, 15, 4764-4776	5.6	8
43	The application of spatially restricted geometries as a unique route to produce well-defined poly(vinyl pyrrolidones) via free radical polymerisation. *Chemical Communications*, **2019**, 55, 6441-6444	5.8	7
42	Studying structural and local dynamics in model H-bonded active ingredient - Curcumin in the supercooled and glassy states at various thermodynamic conditions. *European Journal of Pharmaceutical Sciences*, **2019**, 135, 38-50	5.1	7
41	The impact of various azole antifungals on the liquid crystalline ordering in itraconazole. *Journal of Molecular Liquids*, **2020**, 307, 112959	6	7
40	Observation of the nearly constant loss in super rigid saccharides: in search of a hidden crossover in dynamics deep in the glassy state. *Physical Chemistry Chemical Physics*, **2016**, 18, 8901-10	3.6	7
39	The influence of the nanocurvature on the surface interactions and molecular dynamics of model liquid confined in cylindrical pores. *Journal of Molecular Liquids*, **2020**, 298, 111973	6	7
38	The Impact of Liquid Crystalline Phase Ordering on the Thermodynamic Scaling of Itraconazole. *Journal of Physical Chemistry C*, **2019**, 123, 4558-4566	3.8	6
37	Anhydrosaccharides-A new class of the fragile plastic crystals. *Journal of Chemical Physics*, **2018**, 148, 074501	3.9	6
36	Thermodynamic scaling of molecular dynamics in supercooled liquid state of pharmaceuticals: Itraconazole and ketoconazole. *Journal of Chemical Physics*, **2015**, 142, 224507	3.9	5
35	Unique Behavior of Poly(propylene glycols) Confined within Alumina Templates Having a Nanostructured Interface. *Nano Letters*, **2020**, 20, 5714-5719	11.5	5
34	Impact of Confinement on the Dynamics and H-Bonding Pattern in Low-Molecular Weight Poly(propylene glycols). *Journal of Physical Chemistry C*, **2020**, 124, 17607-17621	3.8	5
33	Does the molecular mobility and flexibility of the saccharide ring affect the glass-forming ability of naproxen in binary mixtures?. *European Journal of Pharmaceutical Sciences*, **2020**, 141, 105091	5.1	5
32	Influence of the Internal Structure and Intermolecular Interactions on the Correlation between Structural (β and Secondary (JG) Relaxation below the Glass Transition Temperature in Neat Probucol and Its Binary Mixtures with Modified Saccharides. *Journal of Physical Chemistry B*, **2020**, 124, 4821-4834	3.4	4
31	High-pressure experiments as a novel perspective to study the molecular dynamics of glass-forming materials confined at the nanoscale. *Nanoscale*, **2020**, 12, 10600-10608	7.7	4
30	Experimental (FTIR, BDS) and theoretical analysis of mutarotation kinetics of D-fructose mixed with different alcohols in the supercooled region. *RSC Advances*, **2016**, 6, 57634-57646	3.7	4
29	High-Pressure Studies on the Chain and Segmental Dynamics of a Series of Poly(propylene glycol) Derivatives. *Macromolecules*, **2019**, 52, 5658-5669	5.5	4

28	The impact of chemical structure on the formation of the medium-range order and dynamical properties of selected antifungal APIs. *Physical Chemistry Chemical Physics*, **2020**, 22, 28202-28212	3.6	4
27	Studies on the molecular dynamics of acetylated oligosaccharides of different topologies (linear versus cyclic). *Carbohydrate Polymers*, **2019**, 206, 273-280	10.3	4
26	Unexpected Crossover in the kinetics of mutarotation in the supercooled region: the role of H-bonds. *Scientific Reports*, **2018**, 8, 5312	4.9	3
25	Studying tautomerism in an important pharmaceutical glibenclamide confined in the thin nanometric layers. *Colloids and Surfaces B: Biointerfaces*, **2019**, 182, 110319	6	3
24	A study on the progress of mutarotation above and below the T and the relationship between constant rates and structural relaxation times. *Physical Chemistry Chemical Physics*, **2017**, 19, 20949-20958	3.6	3
23	Synthetic strategy matters: The study of a different kind of PVP as micellar vehicles of metronidazole. *Journal of Molecular Liquids*, **2021**, 332, 115789	6	3
22	Anormal Thermal History Effect on the Structural Dynamics of Probucol Infiltrated into Porous Alumina. *Journal of Physical Chemistry C*, **2021**, 125, 3901-3912	3.8	3
21	The impact of the length of alkyl chain on the behavior of benzyl alcohol homologues - the interplay between dispersive and hydrogen bond interactions. *Physical Chemistry Chemical Physics*, **2021**, 23, 23796-23807	3.6	3
20	Hard confinement systems as effective nanoreactors for in situ photo-RAFT: towards control over molecular weight distribution and morphology. *Polymer Chemistry*, **2021**, 12, 1105-1113	4.9	3
19	Varying thermodynamic conditions as a new way to tune the molecular order in glassy itraconazole. *Journal of Molecular Liquids*, **2019**, 286, 110920	6	2
18	Direct insight into the kinetics of the high-pressure step-growth polymerization of DGEBA/aniline model system. *Polymer*, **2019**, 172, 322-329	3.9	2
17	Pressure-assisted solvent- and catalyst-free production of well-defined poly(1-vinyl-2-pyrrolidone) for biomedical applications.. *RSC Advances*, **2020**, 10, 21593-21601	3.7	2
16	Studies on dynamics and isomerism in supercooled photochromic compound Aberchrome 670 with the use of different experimental techniques. *Physical Chemistry Chemical Physics*, **2018**, 20, 18009-18019	3.6	2
15	Studying the Crystal Growth of Selected Active Pharmaceutical Ingredients from Single- and Two-Component Systems above and below the Glass Transition Temperature. *Crystal Growth and Design*, **2019**, 19, 1031-1040	3.5	2
14	Pressure-assisted strategy for the synthesis of vinyl pyrrolidone-based macro-star photoiniferters. A route to star block copolymers. *Journal of Polymer Science*, **2020**, 58, 1393-1399	2.4	2
13	Local structure and molecular dynamics of highly polar propylene carbonate derivative infiltrated within alumina and silica porous templates. *Journal of Chemical Physics*, **2021**, 154, 064701	3.9	2
12	Is a Dissociation Process Underlying the Molecular Origin of the Debye Process in Monohydroxy Alcohols?. *Journal of Physical Chemistry B*, **2021**, 125, 2960-2967	3.4	2
11	How does the type of counterion influence the polymerization rate and thermal properties of tailored choline-based linear- and star-shaped poly(ionic liquid)s PILs?. *Journal of Polymer Science Part A*, **2018**, 56, 2681-2691	2.5	2

List of Publications

10	Dramatic slowing down of the conformational equilibrium in the silyl derivative of glucose in the vicinity of the glass transition temperature. *Soft Matter*, **2019**, 15, 7429-7437	3.6	1
9	Correlation between Locally Ordered (Hydrogen-Bonded) Nanodomains and Puzzling Dynamics of Polymethysiloxane Derivative. *Macromolecules*, **2020**, 53, 10225-10233	5.5	1
8	The effect of high-pressure on organocatalyzed ROP of -butyrolactone. *Polymer*, **2021**, 233, 124166	3.9	1
7	Light-mediated controlled and classical polymerizations of less-activated monomers under high-pressure conditions. *Polymer Chemistry*,	4.9	1
6	Aromaticity effect on supramolecular aggregation. Aromatic vs. cyclic monohydroxy alcohols.. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2022**, 276, 121235	4.4	1
5	High pressure as a novel tool for the cationic ROP of -butyrolactone.. *RSC Advances*, **2021**, 11, 34806-34819	3.7	0
4	Sugar decorated star-shaped (co)polymers with resveratrol-based core physicochemical and biological properties. *Journal of Materials Science*, **2022**, 57, 2257	4.3	0
3	Impact of the Chain Length and Topology of the Acetylated Oligosaccharide on the Crystallization Tendency of Naproxen from Amorphous Binary Mixtures. *Molecular Pharmaceutics*, **2021**, 18, 347-358	5.6	0
2	Influence of Annealing in the Close Vicinity of on the Reorganization within Dimers and Its Impact on the Crystallization Kinetics of Gemfibrozil. *Molecular Pharmaceutics*, **2020**, 17, 990-1000	5.6	
1	Variation in the local ordering, H-bonding pattern and molecular dynamics in the pressure densified ritonavir. *Journal of Molecular Liquids*, **2022**, 351, 118666	6	