Magdalena Tarnacka

List of Publications by Year in Descending Order

99 papers	1,156 citations	19 h-index	26 g-index
102 ext. papers	1,339 ext. citations	4.7 avg, IF	4.45 L-index

#	Paper	IF	Citations
99	Variation in the local ordering, H-bonding pattern and molecular dynamics in the pressure densified ritonavir. *Journal of Molecular Liquids*, **2022**, 351, 118666	6	
98	Sugar decorated star-shaped (co)polymers with resveratrol-based core physicochemical and biological properties. *Journal of Materials Science*, **2022**, 57, 2257	4.3	0
97	Aromaticity effect on supramolecular aggregation. Aromatic vs. cyclic monohydroxy alcohols.. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2022**, 276, 121235	4.4	1
96	High pressure as a novel tool for the cationic ROP of butyrolactone.. *RSC Advances*, **2021**, 11, 34806-34819	3.7	0
95	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
94	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
93	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
92	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
91	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
90	The effect of high-pressure on organocatalyzed ROP of butyrolactone. *Polymer*, **2021**, 233, 124166	3.9	1
89	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
88	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
87	Influence of the Internal Structure and Intermolecular Interactions on the Correlation between Structural (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, 4824-4834	3.4	4
86	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
85	Unique Behavior of Poly(propylene glycols) Confined within Alumina Templates Having a Nanostructured Interface. *Nano Letters*, **2020**, 20, 5714-5719	11.5	5
84	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
83	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	

82	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
81	The impact of various azole antifungals on the liquid crystalline ordering in itraconazole. *Journal of Molecular Liquids*, **2020**, 307, 112959	6	7
80	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
79	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
78	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
77	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
76	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
75	Correlation between Locally Ordered (Hydrogen-Bonded) Nanodomains and Puzzling Dynamics of Polymethysiloxane Derivative. *Macromolecules*, **2020**, 53, 10225-10233	5.5	1
74	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
73	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
72	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
71	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
70	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
69	Varying thermodynamic conditions as a new way to tune the molecular order in glassy itraconazole. *Journal of Molecular Liquids*, **2019**, 286, 110920	6	2
68	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
67	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
66	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
65	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

64	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
63	Studying tautomerism in an important pharmaceutical glibenclamide confined in the thin nanometric layers. *Colloids and Surfaces B: Biointerfaces*, **2019**, 182, 110319	6	3
62	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
61	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
60	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
59	Studies on the molecular dynamics of acetylated oligosaccharides of different topologies (linear versus cyclic). *Carbohydrate Polymers*, **2019**, 206, 273-280	10.3	4
58	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
57	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
56	Anhydrosaccharides-A new class of the fragile plastic crystals. *Journal of Chemical Physics*, **2018**, 148, 074501	3.9	6
55	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
54	Unexpected Crossover in the kinetics of mutarotation in the supercooled region: the role of H-bonds. *Scientific Reports*, **2018**, 8, 5312	4.9	3
53	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
52	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
51	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
50	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
49	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
48	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
47	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

46	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
45	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
44	High-pressure dielectric studies on 1,6-anhydro-□D-mannopyranose (plastic crystal) and 2,3,4-tri-O-acetyl-1,6-anhydro-□D-glucopyranose (canonical glass). *Journal of Chemical Physics*, **2018**, 148, 204510	3.9	10
43	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
42	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
41	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
40	Enhanced Polymerization Rate and Conductivity of Ionic Liquid-Based Epoxy Resin. *Macromolecules*, **2017**, 50, 3262-3272	5.5	37
39	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
38	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
37	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
36	Is There a Liquid□liquid Phase Transition in Confined Triphenyl Phosphite?. *Journal of Physical Chemistry C*, **2017**, 121, 19442-19450	3.8	9
35	Interplay between the static ordering and dynamical heterogeneities determining the dynamics of rotation and ordinary liquid phases in 1,6-anhydro-□D-glucose. *Scientific Reports*, **2017**, 7, 42103	4.9	9
34	Time and Temperature as Key Parameters Controlling Dynamics and Properties of Spatially Restricted Polymers. *Macromolecules*, **2017**, 50, 5188-5193	5.5	19
33	High pressure water-initiated ring opening polymerization for the synthesis of well-defined □hydroxy-□(carboxylic acid) polycaprolactones. *Green Chemistry*, **2017**, 19, 3618-3627	10	12
32	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
31	Changing the Tendency of Glass-Forming Liquid To Crystallize by Moving Along Different Isolines in the□T□Phase Diagram. *Crystal Growth and Design*, **2016**, 16, 6263-6268	3.5	12
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	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

28	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
27	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
26	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
25	High pressure dielectric studies on the structural and orientational glass. *Journal of Chemical Physics*, **2016**, 144, 054503	3.9	20
24	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
23	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
22	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
21	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
20	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
19	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
18	Thermodynamic scaling of molecular dynamics in supercooled liquid state of pharmaceuticals: Itraconazole and ketoconazole. *Journal of Chemical Physics*, **2015**, 142, 224507	3.9	5
17	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
16	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
15	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
14	Molecular dynamics of itraconazole confined in thin supported layers. *RSC Advances*, **2014**, 4, 28432-28438	3.7	24
13	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
12	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
11	High pressure polymerization of glycidol. Kinetics studies. *Polymer*, **2014**, 55, 1984-1990	3.9	10

10	Kinetics and Dynamics of the Curing System. High Pressure Studies. *Macromolecules*, **2014**, 47, 4288-4297	5.5	18
9	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
8	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
7	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
6	Molecular dynamics of itraconazole at ambient and high pressure. *Physical Chemistry Chemical Physics*, **2013**, 15, 20742-52	3.6	54
5	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
4	Dielectric studies on molecular dynamics of two important disaccharides: sucrose and trehalose. *Molecular Pharmaceutics*, **2012**, 9, 1559-69	5.6	17
3	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
2	Impact of water on molecular dynamics of amorphous □ □ and □cyclodextrins studied by dielectric spectroscopy. *Physical Review E*, **2012**, 86, 031506	2.4	18
1	Light-mediated controlled and classical polymerizations of less-activated monomers under high-pressure conditions. *Polymer Chemistry*,	4.9	1