

# Magdalena Tarnacka

## List of Publications by Year in descending order

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102  
papers

1,510  
citations

331259

21  
h-index

454577

30  
g-index

102  
all docs

102  
docs citations

102  
times ranked

1106  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular dynamics of itraconazole at ambient and high pressure. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 20742.	1.3	62
2	Enhanced Polymerization Rate and Conductivity of Ionic Liquid-Based Epoxy Resin. <i>Macromolecules</i> , 2017, 50, 3262-3272.	2.2	50
3	Decoupling between the Interfacial and Core Molecular Dynamics of Salol in 2D Confinement. <i>Journal of Physical Chemistry C</i> , 2015, 119, 14366-14374.	1.5	49
4	Studies on the Temperature and Time Induced Variation in the Segmental and Chain Dynamics in Poly(propylene glycol) Confined at the Nanoscale. <i>Macromolecules</i> , 2016, 49, 6678-6686.	2.2	48
5	Interplay between Core and Interfacial Mobility and Its Impact on the Measured Glass Transition: Dielectric and Calorimetric Studies. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7373-7380.	1.5	39
6	Predicting Nanoscale Dynamics of a Glass-Forming Liquid from Its Macroscopic Bulk Behavior and Vice Versa. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 696-702.	2.1	37
7	The peculiar behavior of the molecular dynamics of a glass-forming liquid confined in native porous materials – the role of negative pressure. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 23709-23714.	1.3	35
8	The Role of Interfacial Energy and Specific Interactions on the Behavior of Poly(propylene glycol) Derivatives under 2D Confinement. <i>Macromolecules</i> , 2018, 51, 4840-4852.	2.2	35
9	Molecular Dynamics in Supercooled Liquid and Glassy States of Antibiotics: Azithromycin, Clarithromycin and Roxithromycin Studied by Dielectric Spectroscopy. Advantages Given by the Amorphous State. <i>Molecular Pharmaceutics</i> , 2012, 9, 1748-1763.	2.3	33
10	Molecular Dynamics of the Supercooled Pharmaceutical Agent Posaconazole Studied via Differential Scanning Calorimetry and Dielectric and Mechanical Spectroscopies. <i>Molecular Pharmaceutics</i> , 2013, 10, 3934-3945.	2.3	30
11	Studying the Impact of Modified Saccharides on the Molecular Dynamics and Crystallization Tendencies of Model API Nifedipine. <i>Molecular Pharmaceutics</i> , 2015, 12, 3007-3019.	2.3	30
12	Molecular dynamics of itraconazole confined in thin supported layers. <i>RSC Advances</i> , 2014, 4, 28432-28438.	1.7	28
13	Following kinetics and dynamics of DGEBA-aniline polymerization in nanoporous native alumina oxide membranes – FTIR and dielectric studies. <i>Polymer</i> , 2015, 68, 253-261.	1.8	28
14	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, 1824-1835.	2.3	26
15	Impact of Inter- and Intramolecular Interactions on the Physical Stability of Indomethacin Dispersed in Acetylated Saccharides. <i>Molecular Pharmaceutics</i> , 2014, 11, 2935-2947.	2.3	25
16	High pressure dielectric studies on the structural and orientational glass. <i>Journal of Chemical Physics</i> , 2016, 144, 054503.	1.2	25
17	Polymerization of Monomeric Ionic Liquid Confined within Uniaxial Alumina Pores as a New Way of Obtaining Materials with Enhanced Conductivity. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 29779-29790.	4.0	25
18	Kinetics and Dynamics of the Curing System. <i>High Pressure Studies. Macromolecules</i> , 2014, 47, 4288-4297.	2.2	24

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19	A facile route to well-defined imidazolium-based poly(ionic liquid)s of enhanced conductivity via RAFT. <i>Polymer Chemistry</i> , 2017, 8, 5433-5443.	1.9	24
20	Confinement-Induced Changes in the Glassy Dynamics and Crystallization Behavior of Supercooled Fenofibrate. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1384-1395.	1.5	24
21	Highly Efficient ROP Polymerization of $\hat{\mu}$ -Caprolactone Catalyzed by Nanoporous Alumina Membranes. How the Confinement Affects the Progress and Product of ROP Reaction. <i>Macromolecules</i> , 2018, 51, 4588-4597.	2.2	24
22	The Impact of Molecular Weight on the Behavior of Poly(propylene glycol) Derivatives Confined within Alumina Templates. <i>Macromolecules</i> , 2019, 52, 3516-3529.	2.2	24
23	Time and Temperature as Key Parameters Controlling Dynamics and Properties of Spatially Restricted Polymers. <i>Macromolecules</i> , 2017, 50, 5188-5193.	2.2	23
24	Variation in the Molecular Dynamics of DGEBA Confined within AAO Templates above and below the Glass-Transition Temperature. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28033-28044.	1.5	23
25	Glassy dynamics and physical aging in fucose saccharides as studied by infrared- and broadband dielectric spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 20641.	1.3	22
26	Crystallization Kinetics under Confinement. Manipulation of the Crystalline Form of Salol by Varying Pore Diameter. <i>Crystal Growth and Design</i> , 2016, 16, 1218-1227.	1.4	22
27	Impact of the Interfacial Energy and Density Fluctuations on the Shift of the Glass-Transition Temperature of Liquids Confined in Pores. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5549-5556.	1.5	22
28	Dielectric Studies on Molecular Dynamics of Two Important Disaccharides: Sucrose and Trehalose. <i>Molecular Pharmaceutics</i> , 2012, 9, 1559-1569.	2.3	20
29	Impact of water on molecular dynamics of amorphous $\hat{\mu}$ -caprolactone. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5549-5556.	0.8	20
30	High pressure water-initiated ring opening polymerization for the synthesis of well-defined $\hat{\mu}$ -hydroxy- $\hat{\mu}$ -(carboxylic acid) polycaprolactones. <i>Green Chemistry</i> , 2017, 19, 3618-3627.	4.6	19
31	Impact of Imidazolium-Based Ionic Liquids on the Curing Kinetics and Physicochemical Properties of Nascent Epoxy Resins. <i>Macromolecules</i> , 2020, 53, 6341-6352.	2.2	19
32	Impact of high pressure on the progress of polymerization of DGEBA cured with different amine hardeners: dielectric and DSC studies. <i>RSC Advances</i> , 2015, 5, 105934-105942.	1.7	18
33	Studying the catalytic activity of DBU and TBD upon water-initiated ROP of $\hat{\mu}$ -caprolactone under different thermodynamic conditions. <i>Polymer Chemistry</i> , 2019, 10, 6047-6061.	1.9	17
34	The effect of hydrogen bonding propensity and enantiomeric composition on the dynamics of supercooled ketoprofen $\hat{\mu}$ - dielectric, rheological and NMR studies. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10585-10593.	1.3	16
35	Studying the Crystallization of Various Polymorphic Forms of Nifedipine from Binary Mixtures with the Use of Different Experimental Techniques. <i>Molecular Pharmaceutics</i> , 2017, 14, 2116-2125.	2.3	16
36	Structure-property relationships of tailored imidazolium- and pyrrolidinium-based poly(ionic liquid)s. Solid-like vs. gel-like systems. <i>Polymer</i> , 2020, 192, 122262.	1.8	16

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37	Impact of low molecular weight excipient octaacetylmaltose on the liquid crystalline ordering and molecular dynamics in the supercooled liquid and glassy state of itraconazole. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014, 88, 1094-1104.	2.0	15
38	Enhancement of the Physical Stability of Amorphous Indomethacin by Mixing it with Octaacetylmaltose. <i>Inter and Intra Molecular Studies. Pharmaceutical Research</i> , 2014, 31, 2887-2903.	1.7	15
39	Changes in dynamics of the glass-forming pharmaceutical nifedipine in binary mixtures with octaacetylmaltose. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 97, 185-191.	2.0	15
40	Exploring the Crystallization Tendency of Glass-Forming Liquid Indomethacin in the $T_p$ Plane by Finding Different Iso-Invariant Points. <i>Crystal Growth and Design</i> , 2016, 16, 7000-7010.	1.4	15
41	High pressure RAFT of sterically hindered ionic monomers. Studying relationship between rigidity of the polymer backbone and conductivity. <i>Polymer</i> , 2018, 140, 158-166.	1.8	15
42	Studying of crystal growth and overall crystallization of naproxen from binary mixtures. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 113, 75-87.	2.0	14
43	Studying molecular dynamics of the slow, structural, and secondary relaxation processes in series of substituted ibuprofens. <i>Journal of Chemical Physics</i> , 2018, 148, 224505.	1.2	14
44	Are hydrogen supramolecular structures being suppressed upon nanoscale confinement? The case of monohydroxy alcohols. <i>Journal of Colloid and Interface Science</i> , 2020, 576, 217-229.	5.0	14
45	High pressure polymerization of glycidol. Kinetics studies. <i>Polymer</i> , 2014, 55, 1984-1990.	1.8	13
46	Studies on the radical polymerization of monomeric ionic liquids: nanostructure ordering as a key factor controlling the reaction and properties of nascent polymers. <i>Polymer Chemistry</i> , 2016, 7, 6363-6374.	1.9	13
47	High pressure studies on structural and secondary relaxation dynamics in silyl derivative of D-glucose. <i>Journal of Chemical Physics</i> , 2017, 147, 064502.	1.2	13
48	Impact of Intermolecular Interactions, Dimeric Structures on the Glass Forming Ability of Naproxen, and a Series of Its Derivatives. <i>Molecular Pharmaceutics</i> , 2018, 15, 4764-4776.	2.3	13
49	High-pressure dielectric studies on 1,6-anhydro- $\beta$ -D-mannopyranose (plastic crystal) and 2,3,4-tri-O-acetyl-1,6-anhydro- $\beta$ -D-glucopyranose (canonical glass). <i>Journal of Chemical Physics</i> , 2018, 148, 204510.	1.2	13
50	Breakdown of the isochronal structural ( $\beta$ ) and secondary ( $\gamma$ ) exact superpositioning in probucol - A low molecular weight pharmaceutical. <i>Journal of Molecular Liquids</i> , 2020, 299, 112169.	2.3	13
51	Changing the Tendency of Glass-Forming Liquid To Crystallize by Moving Along Different Isolines in the $T_p$ Phase Diagram. <i>Crystal Growth and Design</i> , 2016, 16, 6263-6268.	1.4	12
52	Studies on the hard confinement effect on the RAFT polymerization of a monomeric ionic liquid. Unexpected triggering of RAFT polymerization at 30 $^{\circ}$ C. <i>Polymer Chemistry</i> , 2018, 9, 335-345.	1.9	12
53	Conformational changes underlying variation in the structural dynamics of materials confined at the nanometric scale. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 30200-30208.	1.3	12
54	Studying structural and local dynamics in model H-bonded active ingredient " Curcumin in the supercooled and glassy states at various thermodynamic conditions. <i>European Journal of Pharmaceutical Sciences</i> , 2019, 135, 38-50.	1.9	12

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55	Efficient metal-free strategies for polymerization of a sterically hindered ionic monomer through the application of hard confinement and high pressure. <i>RSC Advances</i> , 2019, 9, 6396-6408.	1.7	12
56	The application of spatially restricted geometries as a unique route to produce well-defined poly(vinyl pyrrolidones) <i>via</i> free radical polymerisation. <i>Chemical Communications</i> , 2019, 55, 6441-6444.	2.2	11
57	Is There a Liquid-Liquid Phase Transition in Confined Triphenyl Phosphite?. <i>Journal of Physical Chemistry C</i> , 2017, 121, 19442-19450.	1.5	10
58	Correlation between Locally Ordered (Hydrogen-Bonded) Nanodomains and Puzzling Dynamics of Polymethylsiloxane Derivative. <i>Macromolecules</i> , 2020, 53, 10225-10233.	2.2	10
59	Observation of the nearly constant loss in super rigid saccharides: in search of a hidden crossover in dynamics deep in the glassy state. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 8901-8910.	1.3	9
60	Interplay between the static ordering and dynamical heterogeneities determining the dynamics of rotation and ordinary liquid phases in 1,6-anhydro- $\beta$ -D-glucose. <i>Scientific Reports</i> , 2017, 7, 42103.	1.6	9
61	Anhydrosaccharides: A new class of the fragile plastic crystals. <i>Journal of Chemical Physics</i> , 2018, 148, 074501.	1.2	9
62	Impact of Confinement on the Dynamics and H-Bonding Pattern in Low-Molecular Weight Poly(propylene glycols). <i>Journal of Physical Chemistry C</i> , 2020, 124, 17607-17621.	1.5	9
63	Synthetic strategy matters: The study of a different kind of PVP as micellar vehicles of metronidazole. <i>Journal of Molecular Liquids</i> , 2021, 332, 115789.	2.3	9
64	The Impact of the Length of Alkyl Chain on the Behavior of Benzyl Alcohol Homologous. The Interplay Between Dispersive and Hydrogen Bond Interactions. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 23796-23807.	1.3	9
65	High-Pressure Studies on the Chain and Segmental Dynamics of a Series of Poly(propylene glycol) Derivatives. <i>Macromolecules</i> , 2019, 52, 5658-5669.	2.2	8
66	Unique Behavior of Poly(propylene glycols) Confined within Alumina Templates Having a Nanostructured Interface. <i>Nano Letters</i> , 2020, 20, 5714-5719.	4.5	8
67	The impact of various azole antifungals on the liquid crystalline ordering in itraconazole. <i>Journal of Molecular Liquids</i> , 2020, 307, 112959.	2.3	8
68	Thermodynamic scaling of molecular dynamics in supercooled liquid state of pharmaceuticals: Itraconazole and ketoconazole. <i>Journal of Chemical Physics</i> , 2015, 142, 224507.	1.2	7
69	The influence of the nanocurvature on the surface interactions and molecular dynamics of model liquid confined in cylindrical pores. <i>Journal of Molecular Liquids</i> , 2020, 298, 111973.	2.3	7
70	Anormal Thermal History Effect on the Structural Dynamics of Probuocol Infiltrated into Porous Alumina. <i>Journal of Physical Chemistry C</i> , 2021, 125, 3901-3912.	1.5	7
71	The Impact of Liquid Crystalline Phase Ordering on the Thermodynamic Scaling of Itraconazole. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4558-4566.	1.5	6
72	Studies on the molecular dynamics of acetylated oligosaccharides of different topologies (linear) <i>Tj ETQq0 0 0 rgBT_ /Overlock 10 Tf 50 6</i>	5.1	6

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73	Does the molecular mobility and flexibility of the saccharide ring affect the glass-forming ability of naproxen in binary mixtures?. <i>European Journal of Pharmaceutical Sciences</i> , 2020, 141, 105091.	1.9	6
74	Pressure-assisted strategy for the synthesis of vinyl pyrrolidone-based macrostar photoiniferters. A route to star block copolymers. <i>Journal of Polymer Science</i> , 2020, 58, 1393-1399.	2.0	6
75	Local structure and molecular dynamics of highly polar propylene carbonate derivative infiltrated within alumina and silica porous templates. <i>Journal of Chemical Physics</i> , 2021, 154, 064701.	1.2	6
76	Hard confinement systems as effective <i>nanoreactors</i> for <i>in situ</i> photo-RAFT: towards control over molecular weight distribution and morphology. <i>Polymer Chemistry</i> , 2021, 12, 1105-1113.	1.9	6
77	Aromaticity effect on supramolecular aggregation. Aromatic vs. cyclic monohydroxy alcohols. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 276, 121235.	2.0	6
78	Experimental (FTIR, BDS) and theoretical analysis of mutarotation kinetics of <i>D</i> -fructose mixed with different alcohols in the supercooled region. <i>RSC Advances</i> , 2016, 6, 57634-57646.	1.7	5
79	Studying tautomerism in an important pharmaceutical glibenclamide confined in the thin nanometric layers. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 182, 110319.	2.5	5
80	Direct insight into the kinetics of the high-pressure step-growth polymerization of DGEBA/aniline model system. <i>Polymer</i> , 2019, 172, 322-329.	1.8	5
81	Influence of the Internal Structure and Intermolecular Interactions on the Correlation between Structural ( $\beta$ ) and Secondary ( $\beta$ -JG) Relaxation below the Glass Transition Temperature in Neat Probucol and Its Binary Mixtures with Modified Saccharides. <i>Journal of Physical Chemistry B</i> , 2020, 124, 4821-4834.	1.2	5
82	High-pressure experiments as a novel perspective to study the molecular dynamics of glass-forming materials confined at the nanoscale. <i>Nanoscale</i> , 2020, 12, 10600-10608.	2.8	5
83	Is a Dissociation Process Underlying the Molecular Origin of the Debye Process in Monohydroxy Alcohols?. <i>Journal of Physical Chemistry B</i> , 2021, 125, 2960-2967.	1.2	5
84	Light-mediated controlled and classical polymerizations of less-activated monomers under high-pressure conditions. <i>Polymer Chemistry</i> , 2021, 12, 4418-4427.	1.9	5
85	The impact of chemical structure on the formation of the medium-range order and dynamical properties of selected antifungal APIs. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 28202-28212.	1.3	4
86	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.	1.7	4
87	The effect of high-pressure on organocatalyzed ROP of $\beta$ -butyrolactone. <i>Polymer</i> , 2021, 233, 124166.	1.8	4
88	Sugar decorated star-shaped (co)polymers with resveratrol-based core " physicochemical and biological properties. <i>Journal of Materials Science</i> , 2022, 57, 2257-2276.	1.7	4
89	A study on the progress of mutarotation above and below the $T_g$ and the relationship between constant rates and structural relaxation times. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 20949-20958.	1.3	3
90	Unexpected Crossover in the kinetics of mutarotation in the supercooled region: the role of H-bonds. <i>Scientific Reports</i> , 2018, 8, 5312.	1.6	3

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91	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?. <i>Journal of Polymer Science Part A</i> , 2018, 56, 2681-2691.	2.5	3
92	Studies on dynamics and isomerism in supercooled photochromic compound Aberchrome 670 with the use of different experimental techniques. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 18009-18019.	1.3	3
93	Studying the Crystal Growth of Selected Active Pharmaceutical Ingredients from Single- and Two-Component Systems above and below the Glass Transition Temperature. <i>Crystal Growth and Design</i> , 2019, 19, 1031-1040.	1.4	3
94	Supramolecular structures of self-assembled oligomers under confinement. <i>Soft Matter</i> , 2022, 18, 4930-4936.	1.2	3
95	Studies on the Molecular Dynamics at High Pressures as a Key to Identify the Sub-Rouse Mode in PMMS. <i>Macromolecules</i> , 2022, 55, 5581-5590.	2.2	3
96	The impact of the size of acetylated cyclodextrin on the stability of amorphous metronidazole. <i>International Journal of Pharmaceutics</i> , 2022, 624, 122025.	2.6	3
97	Varying thermodynamic conditions as a new way to tune the molecular order in glassy itraconazole. <i>Journal of Molecular Liquids</i> , 2019, 286, 110920.	2.3	2
98	Impact of the Chain Length and Topology of the Acetylated Oligosaccharide on the Crystallization Tendency of Naproxen from Amorphous Binary Mixtures. <i>Molecular Pharmaceutics</i> , 2021, 18, 347-358.	2.3	2
99	High pressure as a novel tool for the cationic ROP of $\hat{3}$ -butyrolactone. <i>RSC Advances</i> , 2021, 11, 34806-34819.	1.7	2
100	Variation in the local ordering, H-bonding pattern and molecular dynamics in the pressure densified ritonavir. <i>Journal of Molecular Liquids</i> , 2022, 351, 118666.	2.3	2
101	Dramatic slowing down of the conformational equilibrium in the silyl derivative of glucose in the vicinity of the glass transition temperature. <i>Soft Matter</i> , 2019, 15, 7429-7437.	1.2	1
102	Influence of Annealing in the Close Vicinity of $T_g$ on the Reorganization within Dimers and Its Impact on the Crystallization Kinetics of Gemfibrozil. <i>Molecular Pharmaceutics</i> , 2020, 17, 990-1000.	2.3	1