

Markus Mezger

List of Publications by Year in descending order

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70
papers

3,320
citations

147801

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71
docs citations

71
times ranked

4730
citing authors

#	ARTICLE	IF	CITATIONS
1	Predicting the Supramolecular Assembly of Amphiphilic Peptides from Comprehensive Coarse-Grained Simulations. <i>ACS Applied Polymer Materials</i> , 2022, 4, 822-831.	4.4	3
2	Insights into the structural, thermal, crystalline and rheological behavior of various hydrothermally modified elephant foot yam (<i>Amorphophallus paeoniifolius</i>) starch. <i>Food Hydrocolloids</i> , 2022, 129, 107672.	10.7	14
3	Outstanding Charge Mobility by Band Transport in Two-Dimensional Semiconducting Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2022, 144, 7489-7496.	13.7	43
4	Cohesion Gain Induced by Nanosilica Consolidants for Monumental Stone Restoration. <i>Langmuir</i> , 2022, 38, 6949-6958.	3.5	2
5	Water Mobility in the Interfacial Liquid Layer of Ice/Clay Nanocomposites. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7697-7702.	13.8	11
6	WassermobilitÄt in der grenzflÄcheninduzierten Schmelzschicht von Eis/TonmineralÄNanokompositen. <i>Angewandte Chemie</i> , 2021, 133, 7775-7781.	2.0	1
7	Complex coacervation of food grade antimicrobial lauric arginate with lambda carrageenan. <i>Current Research in Food Science</i> , 2021, 4, 53-62.	5.8	3
8	Naturally occurring polyphenols as building blocks for supramolecular liquid crystals â€“ substitution pattern dominates mesomorphism. <i>Molecular Systems Design and Engineering</i> , 2021, 6, 390-397.	3.4	5
9	Photo-switching and -cyclisation of hydrogen bonded liquid crystals based on resveratrol. <i>Chemical Communications</i> , 2020, 56, 1105-1108.	4.1	12
10	Impact of Surface Chemistry and Doping Concentrations on Biofunctionalization of GaN/GaÄ‘InÄ‘N Quantum Wells. <i>Sensors</i> , 2020, 20, 4179.	3.8	3
11	Recrystallization upon solvent vapor annealing and impact of polymer crystallinity on hole transport in poly(3-hexylthiophene):small molecule blends. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 1417-1427.	3.4	4
12	Anisotropic carrier diffusion in single MAPbI3 grains correlates to their twin domains. <i>Energy and Environmental Science</i> , 2020, 13, 4168-4177.	30.8	27
13	Controlling the crystal structure of precisely spaced polyethylene-like polyphosphoesters. <i>Polymer Chemistry</i> , 2020, 11, 3404-3415.	3.9	13
14	Vitamin C Loaded Polyethylene: Synthesis and Properties of Precise Polyethylene with Vitamin C Defects via Acyclic Diene Metathesis Polycondensation. <i>Macromolecules</i> , 2020, 53, 2932-2941.	4.8	5
15	What Determines the Glass Temperature and dc-Conductivity in Imidazolium-Polymerized Ionic Liquids with a Polythiophene Backbone?. <i>Macromolecules</i> , 2020, 53, 3535-3550.	4.8	18
16	Alteration of the structural properties of inulin gels. <i>Food Hydrocolloids</i> , 2019, 89, 302-310.	10.7	14
17	Improving the mesomorphic behaviour of supramolecular liquid crystals by resonance-assisted hydrogen bonding. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8643-8648.	5.5	27
18	Structure and Dynamics of Confined Liquids: Challenges and Perspectives for the X-ray Surface Forces Apparatus. <i>Langmuir</i> , 2019, 35, 16679-16692.	3.5	23

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19	Interfacial premelting of ice in nano composite materials. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 3734-3741.	2.8	20
20	Synthesis of Precision Poly(1,3-adamantylene alkylene)s via Acyclic Diene Metathesis Polycondensation. <i>Macromolecules</i> , 2019, 52, 4483-4491.	4.8	13
21	The Surface of Ice under Equilibrium and Nonequilibrium Conditions. <i>Accounts of Chemical Research</i> , 2019, 52, 1006-1015.	15.6	57
22	Effect of Concentration on the Interfacial and Bulk Structure of Ionic Liquids in Aqueous Solution. <i>Langmuir</i> , 2018, 34, 2637-2646.	3.5	18
23	Structure and dynamics of ionic liquids: general discussion. <i>Faraday Discussions</i> , 2018, 206, 291-337.	3.2	8
24	Ionic liquids at interfaces: general discussion. <i>Faraday Discussions</i> , 2018, 206, 549-586.	3.2	0
25	Isoprene/Styrene Tapered Multiblock Copolymers with up to Ten Blocks: Synthesis, Phase Behavior, Order, and Mechanical Properties. <i>Macromolecules</i> , 2018, 51, 10246-10258.	4.8	60
26	Formation of Oriented Polar Crystals in Bulk Poly(vinylidene fluoride)/High-Aspect-Ratio Organoclay Nanocomposites. <i>Langmuir</i> , 2018, 34, 13375-13386.	3.5	5
27	On the impact of linking groups in hydrogen-bonded liquid crystals – a case study. <i>Soft Matter</i> , 2018, 14, 6214-6221.	2.7	17
28	Redox-Responsive and Thermoresponsive Supramolecular Nanosheet Gels with High Young's Moduli. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800282.	3.9	8
29	Polymerized Ionic Liquids with Polythiophene Backbones: Self-Assembly, Thermal Properties, and Ion Conduction. <i>Macromolecules</i> , 2018, 51, 6440-6450.	4.8	25
30	The Catalytic Effect of Fluoroalcohol Mixtures Depends on Domain Formation. <i>ACS Catalysis</i> , 2017, 7, 1846-1852.	11.2	98
31	Single-crystal ice surfaces unveil connection between macroscopic and molecular structure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 5349-5354.	7.1	12
32	Dendritic Mesoporous Silica Nanoparticles for pH-Responsive Drug Delivery of TNF- α . <i>Advanced Healthcare Materials</i> , 2017, 6, 1700012.	7.6	46
33	Mesoscopic Correlation Functions in Heterogeneous Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2017, 121, 620-629.	2.6	42
34	Experimental and theoretical evidence for bilayer-by-bilayer surface melting of crystalline ice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 227-232.	7.1	131
35	Surface induced smectic order in ionic liquids – an X-ray reflectivity study of [C ₂₂ C ₁ im] ⁺ [NTf ₂] ⁻ . <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 26651-26661.	2.8	37
36	Tuneable Transient Thermogels Mediated by a pH- and Redox-Regulated Supramolecular Polymerization. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15461-15465.	13.8	101

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37	Structure-Property Relationships in Hydrogen-Bonded Liquid Crystals. <i>Chemistry of Materials</i> , 2017, 29, 8462-8471.	6.7	38
38	Salt-induced microheterogeneities in binary liquid mixtures. <i>Physical Review E</i> , 2017, 96, 022603.	2.1	13
39	Phase behaviour and thermodynamics: general discussion. <i>Faraday Discussions</i> , 2017, 206, 113-139.	3.2	8
40	Molecular scale structure and dynamics at an ionic liquid/electrode interface. <i>Faraday Discussions</i> , 2017, 206, 141-157.	3.2	57
41	Self-templated synthesis of novel carbon nanoarchitectures for efficient electrocatalysis. <i>Scientific Reports</i> , 2016, 6, 28049.	3.3	7
42	Influence of chain topology on polymer crystallization: poly(ethylene oxide) (PEO) rings vs. linear chains. <i>Soft Matter</i> , 2016, 12, 8124-8134.	2.7	63
43	A modular approach towards functional supramolecular aggregates - subtle structural differences inducing liquid crystallinity. <i>Chemical Communications</i> , 2016, 52, 8549-8552.	4.1	52
44	Effect of Polymer Architecture on the Ionic Conductivity. Densely Grafted Poly(ethylene oxide) Brushes Doped with LiTf. <i>Macromolecules</i> , 2016, 49, 2679-2687.	4.8	43
45	Ferroelastic Fingerprints in Methylammonium Lead Iodide Perovskite. <i>Journal of Physical Chemistry C</i> , 2016, 120, 5724-5731.	3.1	154
46	Morphology and Thermal Properties of Precision Polymers: The Crystallization of Butyl Branched Polyethylene and Polyphosphoesters. <i>Macromolecules</i> , 2016, 49, 1321-1330.	4.8	38
47	Humidity-Induced Grain Boundaries in MAPbI ₃ Perovskite Films. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6363-6368.	3.1	103
48	Polymethacrylates with Polyhedral Oligomeric Silsesquioxane (POSS) Moieties: Influence of Spacer Length on Packing, Thermodynamics, and Dynamics. <i>Macromolecules</i> , 2015, 48, 3376-3385.	4.8	36
49	Interaction of a Patterned Amphiphilic Polyphenylene Dendrimer with a Lipid Monolayer: Electrostatic Interactions Dominate. <i>Langmuir</i> , 2015, 31, 1980-1987.	3.5	16
50	Solid-liquid interfaces of ionic liquid solutions - Interfacial layering and bulk correlations. <i>Journal of Chemical Physics</i> , 2015, 142, 164707.	3.0	56
51	Ionic Conductivity, Self-Assembly, and Viscoelasticity in Poly(styrene-b-ethylene oxide) Electrolytes Doped with LiTf. <i>Macromolecules</i> , 2015, 48, 7164-7171.	4.8	34
52	Nanoscale Structure of Si/SiO ₂ /Organics Interfaces. <i>ACS Nano</i> , 2014, 8, 12676-12681.	14.6	36
53	Supramolecular Thiophene Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4845-4848.	13.8	81
54	Surface layering and melting in an ionic liquid studied by resonant soft X-ray reflectivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3733-3737.	7.1	97

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55	Layer with reduced viscosity at water-oil interfaces probed by fluorescence correlation spectroscopy. <i>Physical Review E</i> , 2013, 87, 012403.	2.1	14
56	Decreasing the Alkyl Branch Frequency in Precision Polyethylene: Effect of Alkyl Branch Size on Nanoscale Morphology. <i>Macromolecules</i> , 2012, 45, 3367-3376.	4.8	66
57	Bioinspired Actuated Adhesive Patterns of Liquid Crystalline Elastomers. <i>Advanced Materials</i> , 2012, 24, 4601-4604.	21.0	110
58	Comment on "How Water Meets a Very Hydrophobic Surface" <i>Physical Review Letters</i> , 2011, 107, 249801; author reply 249802.	7.8	17
59	Molecular orientation in soft matter thin films studied by resonant soft x-ray reflectivity. <i>Physical Review B</i> , 2011, 83, .	3.2	42
60	On the Origin of the Hydrophobic Water Gap: An X-ray Reflectivity and MD Simulation Study. <i>Journal of the American Chemical Society</i> , 2010, 132, 6735-6741.	13.7	103
61	A spin-echo resolved grazing incidence scattering setup for the neutron interrogation of buried nanostructures. <i>Review of Scientific Instruments</i> , 2009, 80, 123903.	1.3	17
62	Layering of [BMIM] ⁺ -based ionic liquids at a charged sapphire interface. <i>Journal of Chemical Physics</i> , 2009, 131, 094701.	3.0	127
63	Radiation-Induced Premelting of Ice at Silica Interfaces. <i>Physical Review Letters</i> , 2009, 103, 095502.	7.8	18
64	Omega-like diffuse X-ray scattering in TiO ₂ caused by static lattice distortions. <i>Acta Materialia</i> , 2008, 56, 1298-1305.	7.9	20
65	Molecular Layering of Fluorinated Ionic Liquids at a Charged Sapphire (0001) Surface. <i>Science</i> , 2008, 322, 424-428.	12.6	576
66	Water and ice in contact with octadecyl-trichlorosilane functionalized surfaces: A high resolution x-ray reflectivity study. <i>Journal of Chemical Physics</i> , 2008, 128, 244705.	3.0	75
67	Temperature and concentration dependence of the effective pair interaction parameters in Ni-Pd from high-energy x-ray diffuse scattering. <i>Physical Review B</i> , 2006, 73, .	3.2	21
68	High-resolution in situ x-ray study of the hydrophobic gap at the water-octadecyl-trichlorosilane interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 18401-18404.	7.1	252
69	Anisotropic Charge Carrier Diffusion Correlated to Ferroelastic Twin Domains in MAPbI ₃ Perovskite. , 0, , .		0
70	Mesocrystalline architecture in hyaline foraminifer shells indicates a non-classical crystallisation pathway. <i>Geochemistry, Geophysics, Geosystems</i> , 0, , .	2.5	2