

Michael Maskos

List of Publications by Year in descending order

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76
papers

5,615
citations

109137

35
h-index

76769

74
g-index

80
all docs

80
docs citations

80
times ranked

8822
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid formation of plasma protein corona critically affects nanoparticle pathophysiology. <i>Nature Nanotechnology</i> , 2013, 8, 772-781.	15.6	1,817
2	Nanoparticle Size Is a Critical Physicochemical Determinant of the Human Blood Plasma Corona: A Comprehensive Quantitative Proteomic Analysis. <i>ACS Nano</i> , 2011, 5, 7155-7167.	7.3	749
3	Impact of the Nanoparticle-Protein Corona on Colloidal Stability and Protein Structure. <i>Langmuir</i> , 2012, 28, 9673-9679.	1.6	291
4	Techniques To Control Polymersome Size. <i>Macromolecules</i> , 2015, 48, 7396-7409.	2.2	134
5	Inflammatory and cytotoxic responses of an alveolar-capillary coculture model to silica nanoparticles: Comparison with conventional monocultures. <i>Particle and Fibre Toxicology</i> , 2011, 8, 6.	2.8	123
6	The surface properties of nanoparticles determine the agglomeration state and the size of the particles under physiological conditions. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1774-1786.	1.5	114
7	Protein corona from molecular adsorption to physiological complexity. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 857-873.	1.5	108
8	Double-Shell Vesicles, Strings of Vesicles and Filaments Found in Crosslinked Micellar Solutions of Poly(1,2-butadiene)-block-poly(ethylene oxide) Diblock Copolymers. <i>Macromolecular Rapid Communications</i> , 2001, 22, 271-273.	2.0	97
9	Polymeric Nanoparticles with Neglectable Protein Corona. <i>Small</i> , 2020, 16, e1907574.	5.2	95
10	Complex Formation of DNA with Oppositely Charged Polyelectrolytes of Different Chain Topology: Cylindrical Brushes and Dendrimers. <i>Macromolecules</i> , 2007, 40, 7998-8006.	2.2	92
11	Switchable information carriers based on shape memory polymer. <i>Journal of Materials Chemistry</i> , 2012, 22, 7757.	6.7	87
12	Nanoparticles Built of Cross-Linked Heterotelechelic, Amphiphilic Poly(dimethylsiloxane)-b-poly(ethylene oxide) Diblock Copolymers. <i>Macromolecules</i> , 2000, 33, 4780-4790.	2.2	84
13	Specific salt effects on thermophoresis of charged colloids. <i>Soft Matter</i> , 2014, 10, 1931.	1.2	83
14	Light-Orchestrated Macromolecular Accordions: Reversible Photoinduced Shrinking of Rigid Rod Polymers. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 12559-12563.	7.2	82
15	Hydrophobic Shell Loading of PB-PEO Vesicles. <i>Macromolecules</i> , 2009, 42, 357-361.	2.2	80
16	Size Influences the Effect of Hydrophobic Nanoparticles on Lung Surfactant Model Systems. <i>Biophysical Journal</i> , 2014, 106, 289-298.	0.2	80
17	High-Resolution Investigation of Nanoparticle Interaction with a Model Pulmonary Surfactant Monolayer. <i>ACS Nano</i> , 2012, 6, 1677-1687.	7.3	75
18	Fine-Tuning of Phase Structures and Thermoplasticity of Polyelectrolyte-Surfactant Complexes: Copolymers of Ionic Monomers with N-Alkylacrylamides. <i>Macromolecules</i> , 1996, 29, 4199-4205.	2.2	69

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19	The protein corona protects against size- and dose-dependent toxicity of amorphous silica nanoparticles. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1380-1392.	1.5	68
20	Hockey-Puck Micelles from Oligo(p-benzamide)-b-PEG Rod-Coil Block Copolymers. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 2969-2975.	7.2	64
21	Finite-Size Networks from Cylindrical Polyelectrolyte Brushes and Porphyrins. <i>Macromolecules</i> , 2009, 42, 830-840.	2.2	63
22	Continuously manufactured magnetic polymersomes – a versatile tool (not only) for targeted cancer therapy. <i>Nanoscale</i> , 2013, 5, 11385.	2.8	61
23	Investigation of various shellac grades: additional analysis for identity. <i>Drug Development and Industrial Pharmacy</i> , 2009, 35, 694-703.	0.9	51
24	Synthesis of Amphiphilic Poly(organosiloxane) Nanospheres with Different Core-Shell Architectures. <i>Macromolecules</i> , 2002, 35, 6851-6857.	2.2	50
25	Interactions of silica nanoparticles with lung epithelial cells and the association to flotillins. <i>Archives of Toxicology</i> , 2013, 87, 1053-1065.	1.9	50
26	Temperature-Triggered Protein Adsorption on Polymer-Coated Nanoparticles in Serum. <i>Langmuir</i> , 2015, 31, 8873-8881.	1.6	50
27	In vitro investigation of silica nanoparticle uptake into human endothelial cells under physiological cyclic stretch. <i>Particle and Fibre Toxicology</i> , 2014, 11, 68.	2.8	49
28	Dye Loading of Amphiphilic Poly(organosiloxane) Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 1714-1717.	7.2	43
29	Multihydroxyl-Functional Polystyrenes in Continuous Flow. <i>Macromolecules</i> , 2010, 43, 5582-5588.	2.2	43
30	Size controlled polymersomes by continuous self-assembly in micromixers. <i>Polymer</i> , 2012, 53, 2205-2210.	1.8	43
31	Tuning the Surface of Nanoparticles: Impact of Poly(2-ethyl-oxazoline) on Protein Adsorption in Serum and Cellular Uptake. <i>Macromolecular Bioscience</i> , 2016, 16, 1287-1300.	2.1	43
32	Characterization of Polyorganosiloxane Nanoparticles in Aqueous Dispersion by Asymmetrical Flow Field-Flow Fractionation. <i>Macromolecules</i> , 2001, 34, 8347-8353.	2.2	42
33	On the role of surface composition and curvature on biointerface formation and colloidal stability of nanoparticles in a protein-rich model system. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 108, 110-119.	2.5	40
34	Pulmonary surfactant augments cytotoxicity of silica nanoparticles: Studies on an in vitro air-blood barrier model. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 517-528.	1.5	37
35	Influence of the solvent and the end groups on the morphology of cross-linked amphiphilic poly(1,2-butadiene)-b-poly(ethylene oxide) nanoparticles. <i>Polymer</i> , 2006, 47, 1172-1178.	1.8	35
36	Polystyrene Sulfonate-Porphyrin Assemblies: Influence of Polyelectrolyte and Porphyrin Structure. <i>Journal of Physical Chemistry B</i> , 2011, 115, 5716-5729.	1.2	32

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37	Flotillin-involved uptake of silica nanoparticles and responses of an alveolar-capillary barrier in vitro. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013, 84, 275-287.	2.0	30
38	Magnetic Composite Thin Films of Fe ₃ O ₄ Nanoparticles and Photocrosslinked Dextran Hydrogels. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 1488-1497.	1.0	29
39	Tracer diffusion of polyorganosiloxane nanoparticles in solution: Effects of tracer topology and particle concentration. <i>Journal of Chemical Physics</i> , 2000, 112, 3031-3039.	1.2	26
40	Topologically Controlled Interpolyelectrolyte Complexes. <i>Macromolecules</i> , 2008, 41, 9067-9071.	2.2	25
41	Characterization of Polymer Nanoparticles by Asymmetrical Flow Field Flow Fractionation (AF-FFF). <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 6834-6839.	0.9	22
42	Amphiphilic Poly(organosiloxane) Nanospheres as Nanoreactors for the Synthesis of Topologically Trapped Gold, Silver, and Palladium Colloids. <i>Macromolecules</i> , 2003, 36, 3974-3979.	2.2	20
43	Hofmeister effect in thermal field-flow fractionation of colloidal aqueous dispersions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 413, 65-70.	2.3	20
44	Macrocycles 11. Polycondensations of aliphatic dicarboxylic acid dichlorides with catechol or bis-trimethylsilyl catechol. <i>Journal of Polymer Science Part A</i> , 1999, 37, 3861-3870.	2.5	19
45	Circular Asymmetrical Flow Field-Flow Fractionation for the Semipreparative Separation of Particles. <i>Analytical Chemistry</i> , 2003, 75, 6105-6108.	3.2	17
46	Dye loading of unimolecular, amphiphilic polymeric nanocontainers. <i>Polymer</i> , 2005, 46, 3329-3336.	1.8	17
47	Cylindrical polyelectrolyte-comb-surfactant complexes. <i>Polymer</i> , 2006, 47, 7391-7396.	1.8	17
48	Magnetic polyorganosiloxane core-shell nanoparticles: Synthesis, characterization and magnetic fractionation. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 3519-3526.	1.0	17
49	Ion Effects in Field-Flow Fractionation of Aqueous Colloidal Polystyrene. <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 2353-2361.	1.1	17
50	Colloid-polymer mixtures in solution with refractive index matched acrylate colloids. <i>Journal of Colloid and Interface Science</i> , 2004, 279, 447-457.	5.0	16
51	Functionalization of Crosslinked Vesicles by Co-Self-Assembly of a Gelable Diblock Copolymer and Mercaptosilane. <i>Macromolecular Rapid Communications</i> , 2008, 29, 1368-1371.	2.0	16
52	Multifunctional, multicompartement polyorganosiloxane magnetic nanoparticles for biomedical applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 1386-1388.	1.0	16
53	Determination of Hamaker constants of polymeric nanoparticles in organic solvents by asymmetrical flow field-flow fractionation. <i>Journal of Chromatography A</i> , 2013, 1274, 151-158.	1.8	16
54	pH-change protective PB-b-PEO polymersomes. <i>Polymer</i> , 2011, 52, 1263-1267.	1.8	14

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55	Viscoelasticity of pore-spanning polymer membranes derived from giant polymersomes. <i>Soft Matter</i> , 2010, 6, 2508.	1.2	13
56	One-pot synthesis of poly(L-lactide) multi-arm star copolymers based on a polyester polyol macroinitiator. <i>Polymer</i> , 2013, 54, 1993-2000.	1.8	11
57	Kinetic Control of Block Copolymer Self-Assembly in a Micromixing Device – Mechanical Insight into Vesicle Formation Process. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1600347.	1.1	11
58	Performance of nanoparticles for biomedical applications: The <i>in vitro</i> / <i>in vivo</i> discrepancy. <i>Biophysics Reviews</i> , 2022, 3, .	1.0	10
59	Association of a Cylindrical Polyelectrolyte Brush with Tetravalent Counterions. <i>Macromolecular Rapid Communications</i> , 2011, 32, 523-527.	2.0	9
60	Synthesis of a new microphase-separated polymer system by counterion coupling and its X-ray characterization. <i>Macromolecular Rapid Communications</i> , 1995, 16, 763-769.	2.0	8
61	Investigation of the Durability of Poly(Ether Urethane) in Water and Air. <i>International Journal of Artificial Organs</i> , 2011, 34, 129-133.	0.7	8
62	Stability of Nanoparticle Dispersions and Particle Agglomeration. <i>Nanoscience and Technology</i> , 2019, , 85-100.	1.5	8
63	Uptake of polymeric nanoparticles in a human induced pluripotent stem cell-based blood-brain barrier model: Impact of size, material, and protein corona. <i>Biointerphases</i> , 2021, 16, 021004.	0.6	7
64	Cylindrical Poly(oligo-DNA). <i>Biomacromolecules</i> , 2007, 8, 700-702.	2.6	6
65	Topologically Controlled Inter-Polyelectrolyte Complexes between Molecular Bottlebrushes and Dendrimers. <i>Macromolecules</i> , 2010, 43, 8645-8650.	2.2	6
66	Structure Formation of Polymeric Building Blocks: Complex Polymer Architectures. <i>Advances in Polymer Science</i> , 2013, , 115-210.	0.4	6
67	Modular Manufacturing Platform for Continuous Synthesis and Analysis of Versatile Nanomaterials. <i>Chemical Engineering and Technology</i> , 2019, 42, 2085-2094.	0.9	6
68	Synthesis of block copolymer vesicles in a micromixer. <i>Houille Blanche</i> , 2009, 95, 125-128.	0.3	6
69	Water-soluble, cyclodextrin-functionalized semiconductor nanocrystals: Preparation and pH-dependent aggregation and emission properties. <i>Journal of Luminescence</i> , 2009, 129, 1428-1434.	1.5	5
70	Observation of interaction forces by investigation of the influence of eluent additives on the retention behavior of aqueous nanoparticle dispersions in asymmetrical flow field-flow fractionation. <i>Journal of Chromatography A</i> , 2021, 1637, 461840.	1.8	4
71	Oligo-DNA Functionalized Polyorganosiloxane Nanoparticles. , 2008, , 128-133.		3
72	Fluorophore-Labeled Siloxane-Based Nanoparticles for Biomedical Applications. <i>Macromolecular Symposia</i> , 2011, 309-310, 141-146.	0.4	3

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73	Influence of oscillating main flow on separation efficiency in asymmetrical flow field-flow fractionation. <i>Journal of Chromatography A</i> , 2021, 1640, 461941.	1.8	2
74	Probing Polymersome-Protein and Cell Interactions: Influence of Different End-Groups and Environments. <i>Macromolecular Symposia</i> , 2011, 309-310, 134-140.	0.4	1
75	Selective solvent evaporation from binary mixtures of water and tetrahydrofuran using a falling film microreactor. <i>Green Processing and Synthesis</i> , 2017, 6, .	1.3	0
76	Gelatin-Based Capsules through Interfacial Polymerization: Batch and Continuous Flow Synthesis. <i>Chemical Engineering and Technology</i> , 2019, 42, 2119-2126.	0.9	0