

Michael Maskos

List of Publications by Year in descending order

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Version: 2024-02-01

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 | 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 |
| 2 | Uptake of polymeric nanoparticles in a human induced pluripotent stem cell-based bloodâ€“brain barrier model: Impact of size, material, and protein corona. <i>Biointerphases</i> , 2021, 16, 021004. | 0.6 | 7 |
| 3 | 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 |
| 4 | 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 |
| 5 | Polymeric Nanoparticles with Neglectable Protein Corona. <i>Small</i> , 2020, 16, e1907574. | 5.2 | 95 |
| 6 | Modular Manufacturing Platform for Continuous Synthesis and Analysis of Versatile Nanomaterials. <i>Chemical Engineering and Technology</i> , 2019, 42, 2085-2094. | 0.9 | 6 |
| 7 | Gelatinâ€“Based Capsules through Interfacial Polymerization: Batch and Continuous Flow Synthesis. <i>Chemical Engineering and Technology</i> , 2019, 42, 2119-2126. | 0.9 | 0 |
| 8 | Stability of Nanoparticle Dispersions and Particle Agglomeration. <i>Nanoscience and Technology</i> , 2019, , 85-100. | 1.5 | 8 |
| 9 | 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 |
| 10 | Kinetic Control of Block Copolymer Selfâ€“Assembly in a Micromixing Device â€“ Mechanical Insight into Vesicle Formation Process. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1600347. | 1.1 | 11 |
| 11 | Tuning the Surface of Nanoparticles: Impact of Poly(2â€“ethylâ€“2â€“oxazoline) on Protein Adsorption in Serum and Cellular Uptake. <i>Macromolecular Bioscience</i> , 2016, 16, 1287-1300. | 2.1 | 43 |
| 12 | Protein corona â€“ from molecular adsorption to physiological complexity. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 857-873. | 1.5 | 108 |
| 13 | Pulmonary surfactant augments cytotoxicity of silica nanoparticles: Studies on an in vitro airâ€“blood barrier model. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 517-528. | 1.5 | 37 |
| 14 | Temperature-Triggered Protein Adsorption on Polymer-Coated Nanoparticles in Serum. <i>Langmuir</i> , 2015, 31, 8873-8881. | 1.6 | 50 |
| 15 | Techniques To Control Polymersome Size. <i>Macromolecules</i> , 2015, 48, 7396-7409. | 2.2 | 134 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

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|----|---|------|-----------|
| 19 | Specific salt effects on thermophoresis of charged colloids. <i>Soft Matter</i> , 2014, 10, 1931. | 1.2 | 83 |
| 20 | Size Influences the Effect of Hydrophobic Nanoparticles on Lung Surfactant Model Systems. <i>Biophysical Journal</i> , 2014, 106, 289-298. | 0.2 | 80 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | Continuously manufactured magnetic polymersomes – a versatile tool (not only) for targeted cancer therapy. <i>Nanoscale</i> , 2013, 5, 11385. | 2.8 | 61 |
| 25 | Rapid formation of plasma protein corona critically affects nanoparticle pathophysiology. <i>Nature Nanotechnology</i> , 2013, 8, 772-781. | 15.6 | 1,817 |
| 26 | 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 |
| 27 | 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 |
| 28 | Structure Formation of Polymeric Building Blocks: Complex Polymer Architectures. <i>Advances in Polymer Science</i> , 2013, , 115-210. | 0.4 | 6 |
| 29 | Switchable information carriers based on shape memory polymer. <i>Journal of Materials Chemistry</i> , 2012, 22, 7757. | 6.7 | 87 |
| 30 | High-Resolution Investigation of Nanoparticle Interaction with a Model Pulmonary Surfactant Monolayer. <i>ACS Nano</i> , 2012, 6, 1677-1687. | 7.3 | 75 |
| 31 | Impact of the Nanoparticle-Protein Corona on Colloidal Stability and Protein Structure. <i>Langmuir</i> , 2012, 28, 9673-9679. | 1.6 | 291 |
| 32 | Ion Effects in Field-Flow Fractionation of Aqueous Colloidal Polystyrene. <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 2353-2361. | 1.1 | 17 |
| 33 | 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 |
| 34 | Size controlled polymersomes by continuous self-assembly in micromixers. <i>Polymer</i> , 2012, 53, 2205-2210. | 1.8 | 43 |
| 35 | 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 |
| 36 | Fluorophore-Labeled Siloxane-Based Nanoparticles for Biomedical Applications. <i>Macromolecular Symposia</i> , 2011, 309-310, 141-146. | 0.4 | 3 |

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|----|--|-----|-----------|
| 37 | Polystyrene Sulfonate-Porphyrin Assemblies: Influence of Polyelectrolyte and Porphyrin Structure. <i>Journal of Physical Chemistry B</i> , 2011, 115, 5716-5729. | 1.2 | 32 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | Association of a Cylindrical Polyelectrolyte Brush with Tetravalent Counterions. <i>Macromolecular Rapid Communications</i> , 2011, 32, 523-527. | 2.0 | 9 |
| 42 | Light-Orchestrated Macromolecular "Accordions": Reversible Photoinduced Shrinking of Rigid-Rod Polymers. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 12559-12563. | 7.2 | 82 |
| 43 | pH-change protective PB-b-PEO polymersomes. <i>Polymer</i> , 2011, 52, 1263-1267. | 1.8 | 14 |
| 44 | 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 |
| 45 | 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 |
| 46 | 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 |
| 47 | Multihydroxyl-Functional Polystyrenes in Continuous Flow. <i>Macromolecules</i> , 2010, 43, 5582-5588. | 2.2 | 43 |
| 48 | Topologically Controlled Inter-Polyelectrolyte Complexes between Molecular Bottlebrushes and Dendrimers. <i>Macromolecules</i> , 2010, 43, 8645-8650. | 2.2 | 6 |
| 49 | Viscoelasticity of pore-spanning polymer membranes derived from giant polymersomes. <i>Soft Matter</i> , 2010, 6, 2508. | 1.2 | 13 |
| 50 | 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 |
| 51 | Multifunctional, multicompartiment polyorganosiloxane magnetic nanoparticles for biomedical applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 1386-1388. | 1.0 | 16 |
| 52 | Hydrophobic Shell Loading of PB-b-PEO Vesicles. <i>Macromolecules</i> , 2009, 42, 357-361. | 2.2 | 80 |
| 53 | Finite-Size Networks from Cylindrical Polyelectrolyte Brushes and Porphyrins. <i>Macromolecules</i> , 2009, 42, 830-840. | 2.2 | 63 |
| 54 | Investigation of various shellac grades: additional analysis for identity. <i>Drug Development and Industrial Pharmacy</i> , 2009, 35, 694-703. | 0.9 | 51 |

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|----|--|-----|-----------|
| 55 | Synthesis of block copolymer vesicles in a micromixer. <i>Houille Blanche</i> , 2009, 95, 125-128. | 0.3 | 6 |
| 56 | Functionalization of Crosslinked Vesicles by Coâ€Selfâ€Assembly of a Gelable Diblock Copolymer and Mercaptosilane. <i>Macromolecular Rapid Communications</i> , 2008, 29, 1368-1371. | 2.0 | 16 |
| 57 | Topologically Controlled Interpolyelectrolyte Complexes. <i>Macromolecules</i> , 2008, 41, 9067-9071. | 2.2 | 25 |
| 58 | Oligo-DNA Functionalized Polyorganosiloxane Nanoparticles. , 2008, , 128-133. | | 3 |
| 59 | Cylindrical Poly(oligo-DNA). <i>Biomacromolecules</i> , 2007, 8, 700-702. | 2.6 | 6 |
| 60 | Complex Formation of DNA with Oppositely Charged Polyelectrolytes of Different Chain Topology:â€‰ Cylindrical Brushes and Dendrimers. <i>Macromolecules</i> , 2007, 40, 7998-8006. | 2.2 | 92 |
| 61 | 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 |
| 62 | Cylindrical polyelectrolyte-comb-surfactant complexes. <i>Polymer</i> , 2006, 47, 7391-7396. | 1.8 | 17 |
| 63 | Hockey-Puck Micelles from Oligo(p-benzamide)-b-PEG Rodâ€‰Coil Block Copolymers. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 2969-2975. | 7.2 | 64 |
| 64 | Dye loading of unimolecular, amphiphilic polymeric nanocontainers. <i>Polymer</i> , 2005, 46, 3329-3336. | 1.8 | 17 |
| 65 | Colloidâ€‰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 |
| 66 | Dye Loading of Amphiphilic Poly(organosiloxane) Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 1714-1717. | 7.2 | 43 |
| 67 | Circular Asymmetrical Flow Field-Flow Fractionation for the Semipreparative Separation of Particles. <i>Analytical Chemistry</i> , 2003, 75, 6105-6108. | 3.2 | 17 |
| 68 | 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 |
| 69 | Synthesis of Amphiphilic Poly(organosiloxane) Nanospheres with Different Coreâ€‰Shell Architectures. <i>Macromolecules</i> , 2002, 35, 6851-6857. | 2.2 | 50 |
| 70 | Characterization of Polyorganosiloxane Nanoparticles in Aqueous Dispersion by Asymmetrical Flow Field-Flow Fractionation. <i>Macromolecules</i> , 2001, 34, 8347-8353. | 2.2 | 42 |
| 71 | 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 |
| 72 | 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 |

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|----|---|-----|-----------|
| 73 | 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 |
| 74 | 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 |
| 75 | 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 |
| 76 | 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 |