

Brigitte Maria StÄdler

List of Publications by Year in descending order

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107
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112
docs citations

112
times ranked

6729
citing authors

#	ARTICLE	IF	CITATIONS
1	Polydopamine as a nature-inspired polymer coating for biomedical science. <i>Nanoscale</i> , 2011, 3, 4916.	2.8	769
2	A Microreactor with Thousands of Subcompartments: Enzyme-Loaded Liposomes within Polymer Capsules. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4359-4362.	7.2	204
3	Liposome and Lipid Bilayer Arrays Towards Biosensing Applications. <i>Small</i> , 2010, 6, 2481-2497.	5.2	191
4	Recent Developments in Polydiacetylene-Based Sensors. <i>Chemistry of Materials</i> , 2019, 31, 1196-1222.	3.2	177
5	Polymer hydrogel capsules: en route toward synthetic cellular systems. <i>Nanoscale</i> , 2009, 1, 68.	2.8	171
6	Recent Advances in Nano- and Micromotors. <i>Advanced Functional Materials</i> , 2020, 30, 1908283.	7.8	149
7	Liposomes and lipid bilayers in biosensors. <i>Advances in Colloid and Interface Science</i> , 2017, 249, 88-99.	7.0	140
8	Engineering Advanced Capsosomes: Maximizing the Number of Subcompartments, Cargo Retention, and Temperature-Triggered Reaction. <i>ACS Nano</i> , 2010, 4, 1351-1361.	7.3	139
9	Capsosomes: Subcompartmentalizing Polyelectrolyte Capsules Using Liposomes. <i>Langmuir</i> , 2009, 25, 6725-6732.	1.6	127
10	Enhanced Diffusion of Glucose-Fueled Janus Particles. <i>Chemistry of Materials</i> , 2015, 27, 7412-7418.	3.2	120
11	Low-Fouling, Biofunctionalized, and Biodegradable Click Capsules. <i>Biomacromolecules</i> , 2008, 9, 3389-3396.	2.6	118
12	Assembly of Poly(dopamine) Films Mixed with a Nonionic Polymer. <i>Langmuir</i> , 2012, 28, 17585-17592.	1.6	117
13	A Critical Look at Multilayered Polymer Capsules in Biomedicine: Drug Carriers, Artificial Organelles, and Cell Mimics. <i>Advanced Functional Materials</i> , 2011, 21, 14-28.	7.8	116
14	Monitoring ion-channel function in real time through quantum decoherence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18777-18782.	3.3	112
15	Double-Fueled Janus Swimmers with Magnetotactic Behavior. <i>ACS Nano</i> , 2017, 11, 3973-3983.	7.3	112
16	Capsosomes with Multilayered Subcompartments: Assembly and Loading with Hydrophobic Cargo. <i>Advanced Functional Materials</i> , 2010, 20, 59-66.	7.8	111
17	Cholesterol-mediated anchoring of enzyme-loaded liposomes within disulfide-stabilized polymer carrier capsules. <i>Biomaterials</i> , 2009, 30, 5988-5998.	5.7	103
18	Cholesterol as a biological compound as a building block in bionanotechnology. <i>Nanoscale</i> , 2013, 5, 89-109.	2.8	101

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19	Recent developments in poly(dopamine)-based coatings for biomedical applications. <i>Nanomedicine</i> , 2015, 10, 2725-2742.	1.7	101
20	Nanopatterns with Biological Functions. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 2237-2264.	0.9	100
21	Stabilization of Polymer Hydrogel Capsules via Thiol-Disulfide Exchange. <i>Small</i> , 2009, 5, 2601-2610.	5.2	90
22	Micropatterning of DNA-Tagged Vesicles. <i>Langmuir</i> , 2004, 20, 11348-11354.	1.6	89
23	Capsosomes with Free-Floating Liposomal Subcompartments. <i>Advanced Materials</i> , 2011, 23, 4082-4087.	11.1	84
24	Polydopamine/Liposome Coatings and Their Interaction with Myoblast Cells. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 2142-2147.	4.0	83
25	Triggered Cargo Release by Encapsulated Enzymatic Catalysis in Capsosomes. <i>Nano Letters</i> , 2011, 11, 4958-4963.	4.5	82
26	Confined Multiple Enzymatic (Cascade) Reactions within Poly(dopamine)-based Capsosomes. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12771-12779.	4.0	73
27	A Polymer Chemistry Point of View on Mucoadhesion and Mucopenetration. <i>Macromolecular Bioscience</i> , 2017, 17, 1700060.	2.1	65
28	Noncovalent Liposome Linkage and Miniaturization of Capsosomes for Drug Delivery. <i>Biomacromolecules</i> , 2010, 11, 3548-3555.	2.6	63
29	Microswimmers with Heat Delivery Capacity for 3D Cell Spheroid Penetration. <i>ACS Nano</i> , 2019, 13, 12192-12205.	7.3	59
30	Poly(Methacrylic Acid) Polymer Hydrogel Capsules: Drug Carriers, Subcompartmentalized Microreactors, Artificial Organelles. <i>Small</i> , 2010, 6, 2201-2207.	5.2	53
31	Subcompartmentalized Polymer Hydrogel Capsules with Selectively Degradable Carriers and Subunits. <i>Small</i> , 2010, 6, 1558-1564.	5.2	51
32	Advanced Subcompartmentalized Microreactors: Polymer Hydrogel Carriers Encapsulating Polymer Capsules and Liposomes. <i>Small</i> , 2013, 9, 3573-3583.	5.2	50
33	Subcompartmentalized Nanoreactors as Artificial Organelle with Intracellular Activity. <i>Small</i> , 2016, 12, 1806-1814.	5.2	44
34	Poly(vinyl alcohol) Physical Hydrogels: Noncryogenic Stabilization Allows Nano- and Microscale Materials Design. <i>Langmuir</i> , 2011, 27, 10216-10223.	1.6	43
35	Myoblast Cell Interaction with Polydopamine Coated Liposomes. <i>Biointerphases</i> , 2012, 7, 8.	0.6	43
36	Liposomes as Drug Deposits in Multilayered Polymer Films. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 2967-2975.	4.0	43

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37	Poly(L-lysine)-grafted-poly(ethylene glycol)-based surface-chemical gradients. Preparation, characterization, and first applications. <i>Biointerphases</i> , 2006, 1, 156-165.	0.6	42
38	Nanopatterning of gold colloids for label-free biosensing. <i>Nanotechnology</i> , 2007, 18, 155306.	1.3	41
39	Assembly of Poly(dopamine)/Poly(<i>N</i> -isopropylacrylamide) Mixed Films and Their Temperature-Dependent Interaction with Proteins, Liposomes, and Cells. <i>Langmuir</i> , 2013, 29, 10213-10222.	1.6	39
40	Shear Stress and Its Effect on the Interaction of Myoblast Cells with Nanosized Drug Delivery Vehicles. <i>Molecular Pharmaceutics</i> , 2013, 10, 2707-2712.	2.3	39
41	Cell response to PEGylated poly(dopamine) coated liposomes considering shear stress. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 4838-4847.	1.1	38
42	Highly-Branched Poly(<i>N</i> -isopropylacrylamide) as a Component in Poly(dopamine) Films. <i>Journal of Physical Chemistry B</i> , 2013, 117, 10504-10512.	1.2	37
43	Surface-Adhered Composite Poly(Vinyl Alcohol) Physical Hydrogels: Polymersome-Aided Delivery of Therapeutic Small Molecules. <i>Advanced Healthcare Materials</i> , 2012, 1, 791-795.	3.9	36
44	Enzymes as key features in therapeutic cell mimicry. <i>Advanced Drug Delivery Reviews</i> , 2017, 118, 94-108.	6.6	36
45	A novel crossed microfluidic device for the precise positioning of proteins and vesicles. <i>Lab on A Chip</i> , 2005, 5, 1387.	3.1	35
46	Extracellular Microreactor for the Depletion of Phenylalanine Toward Phenylketonuria Treatment. <i>Advanced Functional Materials</i> , 2015, 25, 3860-3869.	7.8	32
47	Lipogels: surface-adherent composite hydrogels assembled from poly(vinyl alcohol) and liposomes. <i>Nanoscale</i> , 2013, 5, 6758.	2.8	31
48	Liposome-containing polymer films and colloidal assemblies towards biomedical applications. <i>Nanoscale</i> , 2014, 6, 6426.	2.8	31
49	Janus subcompartmentalized microreactors. <i>Soft Matter</i> , 2015, 11, 5327-5335.	1.2	29
50	Recent progress of liposomes in nanomedicine. <i>Journal of Materials Chemistry B</i> , 2014, 2, 6686-6691.	2.9	28
51	Matrix Vesicles-Containing Microreactors as Support for Bonelike Osteoblasts to Enhance Biom mineralization. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30180-30190.	4.0	28
52	Recent Advancements in Using Polymers for Intestinal Mucoadhesion and Mucopenetration. <i>Macromolecular Bioscience</i> , 2020, 20, e1900342.	2.1	28
53	Degradation of liposomal subcompartments in PEGylated capsosomes. <i>Soft Matter</i> , 2011, 7, 9638.	1.2	26
54	Surface adhered poly(vinyl alcohol) physical hydrogels as tools for rational design of intelligent biointerfaces. <i>Soft Matter</i> , 2012, 8, 4625.	1.2	25

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55	Creation of a functional heterogeneous vesicle array via DNA controlled surface sorting onto a spotted microarray. <i>Biointerphases</i> , 2006, 1, 142-145.	0.6	24
56	Cargo delivery to adhering myoblast cells from liposome-containing poly(dopamine) composite coatings. <i>Biomaterials Science</i> , 2013, 1, 1181.	2.6	24
57	Mucopenetrating micelles with a PEG corona. <i>Nanoscale</i> , 2017, 9, 18438-18448.	2.8	23
58	Polydiacetylene-Based Biosensors for the Detection of Viruses and Related Biomolecules. <i>Advanced Functional Materials</i> , 2020, 30, 2004605.	7.8	22
59	Mitochondria Encapsulation in Hydrogel-Based Artificial Cells as ATP Producing Subunits. <i>Small</i> , 2021, 17, e2007959.	5.2	21
60	Platinum Nanoparticle-Based Microreactors as Support for Neuroblastoma Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7581-7592.	4.0	20
61	Phospholipid-Block Copolymer Hybrid Vesicles with Lysosomal Escape Ability. <i>Langmuir</i> , 2018, 34, 6874-6886.	1.6	20
62	Small Organic Catalase Mimic Encapsulated in Micellar Artificial Organelles as Reactive Oxygen Species Scavengers. <i>ACS Applied Polymer Materials</i> , 2019, 1, 1532-1539.	2.0	20
63	Mucopenetrating polymer Lipid hybrid nanovesicles as subunits in alginate beads as an oral formulation. <i>Journal of Controlled Release</i> , 2020, 322, 470-485.	4.8	20
64	Enzyme prodrug therapies and therapeutic enzymes. <i>Advanced Drug Delivery Reviews</i> , 2017, 118, 1.	6.6	19
65	Biocatalytic Polymer Coatings: On-Demand Drug Synthesis and Localized Therapeutic Effect under Dynamic Cell Culture Conditions. <i>Small</i> , 2014, 10, 1314-1324.	5.2	18
66	Phospholipid-polymer amphiphile hybrid assemblies and their interaction with macrophages. <i>Biomicrofluidics</i> , 2015, 9, 052610.	1.2	18
67	Planar and Cell Aggregate-Like Assemblies Consisting of Microreactors and HepG2 Cells. <i>ACS Omega</i> , 2017, 2, 7085-7095.	1.6	18
68	Hybrid vesicles as intracellular reactive oxygen species and nitric oxide generators. <i>Nanoscale</i> , 2019, 11, 11530-11541.	2.8	18
69	Cell Membrane Coated Particles. <i>Advanced Biology</i> , 2020, 4, e2000174.	3.0	18
70	Cell mimicry as a bottom-up strategy for hierarchical engineering of nature-inspired entities. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2021, 13, e1683.	3.3	18
71	Mixed poly(dopamine)/poly(L-lysine) (composite) coatings: from assembly to interaction with endothelial cells. <i>Biomaterials Science</i> , 2015, 3, 1188-1196.	2.6	17
72	Poly(N-isopropylacrylamide)/Poly(dopamine) Capsules. <i>Langmuir</i> , 2014, 30, 5592-5598.	1.6	16

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73	Distinguishing Commercial Beers Using a Solution-Based Sensor Array Derived from Nanoscale Polydiacetylene Vesicles. <i>ACS Applied Nano Materials</i> , 2020, 3, 3439-3448.	2.4	16
74	Effect of Osteopontin on the Initial Adhesion of Dental Bacteria. <i>Journal of Natural Products</i> , 2012, 75, 2108-2112.	1.5	15
75	Droplet-microfluidics towards the assembly of advanced building blocks in cell mimicry. <i>Nanoscale</i> , 2016, 8, 19510-19522.	2.8	15
76	Multicompartmentalized Microreactors Containing Nuclei and Catalase-Loaded Liposomes. <i>Biomacromolecules</i> , 2018, 19, 4379-4385.	2.6	15
77	Polymer- ω -Lipid Hybrid Vesicles and Their Interaction with HepG2 Cells. <i>Small</i> , 2020, 16, e1906493.	5.2	15
78	Enzyme Mimic Facilitated Artificial Cell to Mammalian Cell Signal Transfer. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18704-18711.	7.2	15
79	Liposomes equipped with poly(N-isopropyl acryl amide)-containing coatings as potential drug carriers. <i>RSC Advances</i> , 2014, 4, 44769-44776.	1.7	14
80	Small Subcompartmentalized Microreactors as Support for Hepatocytes. <i>Advanced Healthcare Materials</i> , 2017, 6, .	3.9	14
81	On the Assembly of Microreactors with Parallel Enzymatic Pathways. <i>Advanced Biology</i> , 2018, 2, e1700244.	3.0	14
82	Mucopenetrating Zwitterionic Micelles. <i>ChemNanoMat</i> , 2020, 6, 744-750.	1.5	13
83	Disintegrating polymer multilayers to jump-start colloidal micromotors. <i>Nanoscale</i> , 2019, 11, 733-741.	2.8	12
84	Evaluation of Hybrid Vesicles in an Intestinal Cell Model Based on Structured Paper Chips. <i>Biomacromolecules</i> , 2021, 22, 3860-3872.	2.6	12
85	Locomotion of micromotors in paper chips. <i>Nanoscale</i> , 2021, 13, 17900-17911.	2.8	10
86	Tannic acid and cholesterol- ω -dopamine as building blocks in composite coatings for substrate-mediated drug delivery. <i>Polymer International</i> , 2016, 65, 1306-1314.	1.6	8
87	Locomotion of Micromotors Due to Liposome Disintegration. <i>Langmuir</i> , 2020, 36, 7056-7065.	1.6	8
88	Interaction of pH-responsive polyanions with phospholipid membranes. <i>Polymer Chemistry</i> , 2019, 10, 5992-5997.	1.9	7
89	Liposomal Templating, Association with Mammalian Cells, and Cytotoxicity of Poly(vinyl alcohol) Physical Hydrogel Nanoparticles. <i>Particle and Particle Systems Characterization</i> , 2013, 30, 514-522.	1.2	6
90	Interaction of cells with patterned reactors. <i>Biomaterials Science</i> , 2018, 6, 793-802.	2.6	6

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91	Poly(ethylene glycol) Grafting of Nanoparticles Prevents Uptake by Cells and Transport Through Cell Barrier Layers Regardless of Shear Flow and Particle Size. ACS Biomaterials Science and Engineering, 2019, 5, 4355-4365.	2.6	6
92	Multicompartment Microreactors Prevent Excitotoxic Dysfunctions In Rat Primary Cortical Neurons. Advanced Biology, 2020, 4, e2000139.	3.0	6
93	Manganese dioxide nanosheet-containing reactors as antioxidant support for neuroblastoma cells. Journal of Materials Chemistry B, 2022, 10, 4672-4683.	2.9	6
94	Membrane composition of polymer-lipid hybrid vesicles. Applied Materials Today, 2022, 29, 101549.	2.3	6
95	Surface polymerization induced locomotion. Nanoscale, 2021, 13, 10035-10043.	2.8	5
96	Liposomal Drug Deposits in Poly(Dopamine) Coatings: Effect of Their Composition, Cell Type, Uptake Pathway Considerations, and Shear Stress. Macromolecular Bioscience, 2014, 14, 1677-1687.	2.1	4
97	Nitric oxide producing artificial enzymes based on metalloporphyrins. Materials Today Chemistry, 2022, 23, 100743.	1.7	4
98	Micromotor-Assisted Keratinocytes Migration in a Floating Paper Chip. Small, 2023, 19, .	5.2	4
99	Polymer Micelles vs Polymer-Lipid Hybrid Vesicles: A Comparison Using RAW 264.7 Cells. Biomacromolecules, 2022, 23, 1052-1064.	2.6	3
100	Subcompartmentalized Systems Towards Therapeutic Cell Mimics. Regenerative Medicine, Artificial Cells and Nanomedicine, 2013, , 281-299.	0.7	2
101	Photobleaching induced damage of biomolecules: Streptavidin as a bio-photoresist. Surface Science, 2010, 604, 898-905.	0.8	1
102	Motion analysis of optically trapped particles and cells using 2D Fourier analysis. Optics Express, 2012, 20, 1953.	1.7	1
103	Patterned Liposome-Polymer Composite Coatings. ChemNanoMat, 2016, 2, 822-829.	1.5	1
104	Microreactor equipped with naturally acid-resistant histidine ammonia lyase from an extremophile. Materials Advances, 2022, 3, 3649-3662.	2.6	1
105	Hydrogels: Liposomal Templating, Association with Mammalian Cells, and Cytotoxicity of Poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overl Systems Characterization, 2013, 30, 566-566.	1.2	0
106	Microreactors: Multicompartment Microreactors Prevent Excitotoxic Dysfunctions In Rat Primary Cortical Neurons (Adv. Biosys. 10/2020). Advanced Biology, 2020, 4, 2070102.	3.0	0
107	Enzyme Mimic Facilitated Artificial Cell to Mammalian Cell Signal Transfer. Angewandte Chemie, 2021, 133, 18852-18859.	1.6	0