

Jens Gaitzsch

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

2,199
citations

304743

22
h-index

254184

43
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46
all docs

46
docs citations

46
times ranked

2880
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering Functional Polymer Capsules toward Smart Nanoreactors. <i>Chemical Reviews</i> , 2016, 116, 1053-1093.	47.7	337
2	Synthetic Bioâ€œnanoreactor: Mechanical and Chemical Control of Polymersome Membrane Permeability. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4448-4451.	13.8	246
3	Chemotactic synthetic vesicles: Design and applications in blood-brain barrier crossing. <i>Science Advances</i> , 2017, 3, e1700362.	10.3	215
4	Purification of Nanoparticles by Size and Shape. <i>Scientific Reports</i> , 2016, 6, 27494.	3.3	169
5	iRGD peptide conjugation potentiates intraperitoneal tumor delivery of paclitaxel with polymersomes. <i>Biomaterials</i> , 2016, 104, 247-257.	11.4	123
6	Cross-linked polymersomes as nanoreactors for controlled and stabilized single and cascade enzymatic reactions. <i>Nanoscale</i> , 2014, 6, 10752-10761.	5.6	120
7	Novel aspects of encapsulation and delivery using polymersomes. <i>Current Opinion in Pharmacology</i> , 2014, 18, 104-111.	3.5	114
8	Biomimetic Hybrid Nanocontainers with Selective Permeability. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11106-11109.	13.8	92
9	Photo-crosslinked and pH sensitive polymersomes for triggering the loading and release of cargo. <i>Chemical Communications</i> , 2011, 47, 3466.	4.1	71
10	Paclitaxel-Loaded Polymersomes for Enhanced Intraperitoneal Chemotherapy. <i>Molecular Cancer Therapeutics</i> , 2016, 15, 670-679.	4.1	68
11	Self-Assembly of Amphiphilic Block Copolypeptoids â€œ Micelles, Worms and Polymersomes. <i>Scientific Reports</i> , 2016, 6, 33491.	3.3	61
12	Molecular engineering of polymersome surface topology. <i>Science Advances</i> , 2016, 2, e1500948.	10.3	56
13	Synthesis and complex self-assembly of amphiphilic block copolymers with a branched hydrophobic poly(2-oxazoline) into multicompart ment micelles, pseudo-vesicles and yolk/shell nanoparticles. <i>Polymer Chemistry</i> , 2020, 11, 1237-1248.	3.9	38
14	Cellular Interactions with Photo-Cross-Linked and pH-Sensitive Polymersomes: Biocompatibility and Uptake Studies. <i>Biomacromolecules</i> , 2012, 13, 4188-4195.	5.4	33
15	Synthesis of Linear ABC Triblock Copolymers and Their Selfâ€œAssembly in Solution. <i>Helvetica Chimica Acta</i> , 2018, 101, e1700287.	1.6	31
16	Directed Insertion of Light-Activated Proteorhodopsin into Asymmetric Polymersomes from an ABC Block Copolymer. <i>Nano Letters</i> , 2019, 19, 2503-2508.	9.1	30
17	Bottom-Up Evolution of Vesicles from Disks to High-Genus Polymersomes. <i>IScience</i> , 2018, 7, 132-144.	4.1	29
18	Synthesis of an Amphiphilic Miktoarm Star Terpolymer for Self-Assembly into Patchy Polymersomes. <i>ACS Macro Letters</i> , 2016, 5, 351-354.	4.8	27

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19	Nanoscale detection of metal-labeled copolymers in patchy polymersomes. <i>Polymer Chemistry</i> , 2015, 6, 2065-2068.	3.9	26
20	Updating radical ring-opening polymerisation of cyclic ketene acetals from synthesis to degradation. <i>European Polymer Journal</i> , 2020, 134, 109851.	5.4	25
21	Revisiting monomer synthesis and radical ring opening polymerization of dimethylated MDO towards biodegradable nanoparticles for enzymes. <i>European Polymer Journal</i> , 2018, 101, 113-119.	5.4	22
22	Novel monomers in radical ring-opening polymerisation for biodegradable and pH responsive nanoparticles. <i>Polymer Chemistry</i> , 2019, 10, 5285-5288.	3.9	22
23	Double cross-linked supramolecular hydrogels with tunable properties based on host-guest interactions. <i>Soft Matter</i> , 2020, 16, 6733-6742.	2.7	21
24	Dynamic Docking and Undocking Processes Addressing Selectively the Outside and Inside of Polymersomes. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1700486.	3.9	20
25	Comparison of metal free polymer-dye conjugation strategies in protic solvents. <i>Polymer Chemistry</i> , 2016, 7, 3046-3055.	3.9	19
26	Cross-linked and pH sensitive supported polymer bilayers from polymersomes - studies concerning thickness, rigidity and fluidity. <i>Soft Matter</i> , 2014, 10, 75-82.	2.7	16
27	One-Pot Synthesis of an Amphiphilic ABC Triblock Copolymer PEO- <i>b</i> -PEHOx- <i>b</i> -PEtOz and Its Self-Assembly into Nanoscopic Asymmetric Polymersomes. <i>Macromolecules</i> , 2020, 53, 11040-11050.	4.8	15
28	Biomimetic Hybrid Nanocontainers with Selective Permeability. <i>Angewandte Chemie</i> , 2016, 128, 11272-11275.	2.0	14
29	The chemistry of cross-linked polymeric vesicles and their functionalization towards biocatalytic nanoreactors. <i>Colloid and Polymer Science</i> , 2021, 299, 309-324.	2.1	12
30	The first example of a domino Diels-Alder/retro-Diels-Alder reaction of 1,3-dienic $\hat{\text{I}}$ -sultones with alkynes: a simple synthesis of <i>m</i> -terphenyl dicarboxy derivatives from 4,6-diphenyl-[1,2]oxathiine 2,2-dioxide. <i>Journal of Sulfur Chemistry</i> , 2009, 30, 4-9.	2.0	11
31	Peptoidosomes as nanoparticles from amphiphilic block alpha-peptoids using solid-phase-synthesis. <i>European Polymer Journal</i> , 2015, 73, 447-454.	5.4	10
32	Vesicles in Multiple Shapes: Fine-Tuning Polymersomes TM Shape and Stability by Setting Membrane Hydrophobicity. <i>Polymers</i> , 2017, 9, 483.	4.5	8
33	Synthesis of <i>m</i> -Terphenyl Derivatives via Domino Diels-Alder/Retro-Diels-Alder Reaction of 1,3-Dienic $\hat{\text{I}}$ -Sultones with Alkynes. <i>Synthesis</i> , 2014, 46, 531-536.	2.3	7
34	Deepening the insight into poly(butylene oxide)- <i>b</i> -poly(glycidol) synthesis and self-assemblies: micelles, worms and vesicles. <i>RSC Advances</i> , 2020, 10, 22701-22711.	3.6	7
35	Redox-sensitive ferrocene functionalised double cross-linked supramolecular hydrogels. <i>Polymer Chemistry</i> , 2022, 13, 427-438.	3.9	7
36	Simple and practical one-step synthesis of new 1,3-dienic $\hat{\text{I}}$ -sultones from terminal alkynes and some synthetic applications of these compounds. <i>Journal of Sulfur Chemistry</i> , 2011, 32, 3-16.	2.0	5

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37	Fully amorphous atactic and isotactic block copolymers and their self-assembly into nano- and microscopic vesicles. <i>Polymer Chemistry</i> , 2021, 12, 5377-5389.	3.9	5
38	Reversible Protein Capture and Release by Redox-Responsive Hydrogel in Microfluidics. <i>Polymers</i> , 2022, 14, 267.	4.5	5
39	Delivery of <scp>ROS</scp> Generating Anthraquinones Using Reductionâ€Responsive Peptideâ€Based Nanoparticles. <i>Helvetica Chimica Acta</i> , 2018, 101, e1800064.	1.6	4
40	Vesikel aus Polymeren. <i>Nachrichten Aus Der Chemie</i> , 2016, 64, 965-967.	0.0	1