

# Markus Plomann

## List of Publications by Year in descending order

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Version: 2024-02-01

76  
papers

3,096  
citations

159585

30  
h-index

168389

53  
g-index

83  
all docs

83  
docs citations

83  
times ranked

5665  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemotactic synthetic vesicles: Design and applications in blood-brain barrier crossing. <i>Science Advances</i> , 2017, 3, e1700362.	10.3	215
2	Purification of Nanoparticles by Size and Shape. <i>Scientific Reports</i> , 2016, 6, 27494.	3.3	169
3	3D surface topology guides stem cell adhesion and differentiation. <i>Biomaterials</i> , 2015, 52, 140-147.	11.4	165
4	iRGD peptide conjugation potentiates intraperitoneal tumor delivery of paclitaxel with polymersomes. <i>Biomaterials</i> , 2016, 104, 247-257.	11.4	123
5	Targeting the endoplasmic reticulum with a membrane-interactive luminescent ruthenium(ii) polypyridyl complex. <i>Chemical Science</i> , 2013, 4, 4512.	7.4	120
6	Novel aspects of encapsulation and delivery using polymersomes. <i>Current Opinion in Pharmacology</i> , 2014, 18, 104-111.	3.5	114
7	LRP-1-mediated intracellular antibody delivery to the Central Nervous System. <i>Scientific Reports</i> , 2015, 5, 11990.	3.3	113
8	Modelling the Transport of Nanoparticles under Blood Flow using an Agent-based Approach. <i>Scientific Reports</i> , 2015, 5, 10649.	3.3	101
9	Biomimetic Hybrid Nanocontainers with Selective Permeability. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11106-11109.	13.8	92
10	TGFB1 is secreted through an unconventional pathway dependent on the autophagic machinery and cytoskeletal regulators. <i>Autophagy</i> , 2018, 14, 465-486.	9.1	80
11	Stimuli-responsive polymeric prodrug-based nanomedicine delivering nifuroxazide and doxorubicin against primary breast cancer and pulmonary metastasis. <i>Journal of Controlled Release</i> , 2020, 318, 124-135.	9.9	79
12	Localization matters: a nuclear targeting two-photon absorption iridium complex in photodynamic therapy. <i>Chemical Communications</i> , 2017, 53, 3303-3306.	4.1	77
13	PICK1 interacts with PACSIN to regulate AMPA receptor internalization and cerebellar long-term depression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13976-13981.	7.1	68
14	Paclitaxel-Loaded Polymersomes for Enhanced Intraperitoneal Chemotherapy. <i>Molecular Cancer Therapeutics</i> , 2016, 15, 670-679.	4.1	68
15	3D Surface Functionalization of Emulsion-Templated Polymeric Foams. <i>Macromolecules</i> , 2014, 47, 7091-7098.	4.8	67
16	New developments on skin fibrosis - Essential signals emanating from the extracellular matrix for the control of myofibroblasts. <i>Matrix Biology</i> , 2018, 68-69, 522-532.	3.6	67
17	Polymersomes and their applications in cancer delivery and therapy. <i>Nanomedicine</i> , 2015, 10, 2757-2780.	3.3	65
18	Self-Assembly of Amphiphilic Block Copolypeptoids " Micelles, Worms and Polymersomes. <i>Scientific Reports</i> , 2016, 6, 33491.	3.3	61

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19	Molecular engineering of polymersome surface topology. <i>Science Advances</i> , 2016, 2, e1500948.	10.3	56
20	COMP-assisted collagen secretion - a novel intracellular function required for fibrosis. <i>Journal of Cell Science</i> , 2016, 129, 706-16.	2.0	56
21	FlnA binding to PACSIN2 F-BAR domain regulates membrane tubulation in megakaryocytes and platelets. <i>Blood</i> , 2015, 126, 80-88.	1.4	52
22	Polymersomes Eradicating Intracellular Bacteria. <i>ACS Nano</i> , 2020, 14, 8287-8298.	14.6	47
23	A Self-Assembled Metallomacrocyclic Singlet Oxygen Sensitizer for Photodynamic Therapy. <i>Chemistry - A European Journal</i> , 2016, 22, 5996-6000.	3.3	42
24	On the shuttling across the blood-brain barrier via tubule formation: Mechanism and cargo avidity bias. <i>Science Advances</i> , 2020, 6, .	10.3	41
25	TGF $\beta$ 2 promotes fibrosis by MYST1-dependent epigenetic regulation of autophagy. <i>Nature Communications</i> , 2021, 12, 4404.	12.8	40
26	An mTORC1-GRASP55 signaling axis controls unconventional secretion to reshape the extracellular proteome upon stress. <i>Molecular Cell</i> , 2021, 81, 3275-3293.e12.	9.7	40
27	Pericytes from Mesenchymal Stem Cells as a model for the blood-brain barrier. <i>Scientific Reports</i> , 2017, 7, 39676.	3.3	39
28	Live cell imaging of membrane / cytoskeleton interactions and membrane topology. <i>Scientific Reports</i> , 2014, 4, 6056.	3.3	37
29	Polypyrrole and polyaniline nanocomposites with high photothermal conversion efficiency. <i>Soft Matter</i> , 2020, 16, 4569-4573.	2.7	37
30	Thermosensitive nanocomposite gel for intra-tumoral two-photon photodynamic therapy. <i>Journal of Controlled Release</i> , 2019, 298, 99-109.	9.9	35
31	Molecular bionics – engineering biomaterials at the molecular level using biological principles. <i>Biomaterials</i> , 2019, 192, 26-50.	11.4	35
32	Interaction between KDELR2 and HSP47 as a Key Determinant in Osteogenesis Imperfecta Caused by Bi-allelic Variants in KDELR2. <i>American Journal of Human Genetics</i> , 2020, 107, 989-999.	6.2	35
33	Designing peptide nanoparticles for efficient brain delivery. <i>Advanced Drug Delivery Reviews</i> , 2020, 160, 52-77.	13.7	33
34	Combinatorial entropy behaviour leads to range selective binding in ligand-receptor interactions. <i>Nature Communications</i> , 2020, 11, 4836.	12.8	33
35	A Hinge in the Distal End of the PACSIN 2 F-BAR Domain May Contribute to Membrane-Curvature Sensing. <i>Journal of Molecular Biology</i> , 2010, 400, 129-136.	4.2	31
36	PACSIN2 accelerates nephrin trafficking and is up-regulated in diabetic kidney disease. <i>FASEB Journal</i> , 2017, 31, 3978-3990.	0.5	30

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37	Bottom-Up Evolution of Vesicles from Disks to High-Genus Polymersomes. <i>IScience</i> , 2018, 7, 132-144.	4.1	29
38	The role of the two splice variants and extranuclear pathway on Ki-67 regulation in non-cancer and cancer cells. <i>PLoS ONE</i> , 2017, 12, e0171815.	2.5	28
39	Targeting Neutrophilic Inflammation Using Polymersome-Mediated Cellular Delivery. <i>Journal of Immunology</i> , 2017, 198, 3596-3604.	0.8	27
40	Nanoscale detection of metal-labeled copolymers in patchy polymersomes. <i>Polymer Chemistry</i> , 2015, 6, 2065-2068.	3.9	26
41	GRASP55 regulates intra-Golgi localization of glycosylation enzymes to control glycosphingolipid biosynthesis. <i>EMBO Journal</i> , 2021, 40, e107766.	7.8	26
42	Real-time imaging of polymersome nanoparticles in zebrafish embryos engrafted with melanoma cancer cells: Localization, toxicity and treatment analysis. <i>EBioMedicine</i> , 2020, 58, 102902.	6.1	25
43	On the design of precision nanomedicines. <i>Science Advances</i> , 2020, 6, eaat0919.	10.3	24
44	Respiratory chain inactivation links cartilage-mediated growth retardation to mitochondrial diseases. <i>Journal of Cell Biology</i> , 2019, 218, 1853-1870.	5.2	23
45	A junctional PACSIN2/EHD4/MICAL-L1 complex coordinates VE-cadherin trafficking for endothelial migration and angiogenesis. <i>Nature Communications</i> , 2021, 12, 2610.	12.8	23
46	Macrophage Targeting pH Responsive Polymersomes for Glucocorticoid Therapy. <i>Pharmaceutics</i> , 2019, 11, 614.	4.5	22
47	Glyconanoparticles with controlled morphologies and their interactions with a dendritic cell lectin. <i>Polymer Chemistry</i> , 2016, 7, 6293-6296.	3.9	21
48	Translocation of flexible polymersomes across pores at the nanoscale. <i>Biomaterials Science</i> , 2014, 2, 680-692.	5.4	20
49	Metabolically Active, Fully Hydrolysable Polymersomes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4581-4586.	13.8	20
50	A Cyclometalated Iridium (III) Complex as a Microtubule Probe for Correlative Super-Resolution Fluorescence and Electron Microscopy. <i>Advanced Materials</i> , 2020, 32, e2003901.	21.0	20
51	Comparison of metal free polymer-dye conjugation strategies in protic solvents. <i>Polymer Chemistry</i> , 2016, 7, 3046-3055.	3.9	19
52	In situ formation of magnetopolymersomes via electroporation for MRI. <i>Scientific Reports</i> , 2015, 5, 14311.	3.3	18
53	NF- $\kappa$ B hijacking theranostic Pt(II) complex in cancer therapy. <i>Theranostics</i> , 2019, 9, 2158-2166.	10.0	17
54	NeuN-Specific Fluorescent Probe Revealing Neuronal Nuclei Protein and Nuclear Acids Association in Living Neurons under STED Nanoscopy. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 31959-31964.	8.0	16

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55	One-Pot Synthesis of Oxidation-Sensitive Supramolecular Gels and Vesicles. <i>Biomacromolecules</i> , 2021, 22, 5052-5064.	5.4	16
56	Asparaginase Encapsulation into Asymmetric Permeable Polymersomes. <i>ACS Macro Letters</i> , 2020, 9, 1471-1477.	4.8	15
57	Biomimetic Hybrid Nanocontainers with Selective Permeability. <i>Angewandte Chemie</i> , 2016, 128, 11272-11275.	2.0	14
58	The Role of BAR Proteins and the Glycocalyx in Brain Endothelium Transcytosis. <i>Cells</i> , 2020, 9, 2685.	4.1	10
59	Prostate cancer cell-specific BikDDA delivery by targeted polymersomes. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 3389-3401.	3.1	9
60	Combinatorial Intracellular Delivery Screening of Anticancer Drugs. <i>Molecular Pharmaceutics</i> , 2020, 17, 4709-4714.	4.6	8
61	Amphiphilic Histidine-Based Oligopeptides Exhibit pH-Reversible Fibril Formation. <i>ACS Macro Letters</i> , 2021, 10, 984-989.	4.8	8
62	ARP-T1-associated Bazexâ€“DuprÃ©â€“Christol syndrome is an inherited basal cell cancer with ciliary defects characteristic of ciliopathies. <i>Communications Biology</i> , 2021, 4, 544.	4.4	7
63	Tuning cell behavior with nanoparticle shape. <i>PLoS ONE</i> , 2020, 15, e0240197.	2.5	7
64	Pacsin 2 is required for the maintenance of a normal cardiac function in the developing mouse heart. <i>Pharmacological Research</i> , 2018, 128, 200-210.	7.1	5
65	Separating Extreme pH Gradients Using Amphiphilic Copolymer Membranes. <i>ChemPhysChem</i> , 2018, 19, 1987-1989.	2.1	4
66	Metabolically Active, Fully Hydrolysable Polymersomes. <i>Angewandte Chemie</i> , 2019, 131, 4629-4634.	2.0	3
67	ERÎ±-independent NRF2-mediated immunoregulatory activity of tamoxifen. <i>Biomedicine and Pharmacotherapy</i> , 2021, 144, 112274.	5.6	3
68	Syndapin-2 mediated transcytosis of amyloid-Î² across the bloodâ€“brain barrier. <i>Brain Communications</i> , 2022, 4, fcac039.	3.3	3
69	A Multiscale Study of Phosphorylcholine Driven Cellular Phenotypic Targeting. <i>ACS Central Science</i> , 2022, 8, 891-904.	11.3	3
70	Novel Class of Probes for Multimodal Microscopy of Cells. <i>Microscopy and Microanalysis</i> , 2020, 26, 1596-1597.	0.4	1
71	GRASping the unconventional secretory machinery to bridge cellular stress signaling to the extracellular proteome. <i>Cell Stress</i> , 2021, 5, 173-175.	3.2	1
72	Liveâ€“Cell Imaging: A Cyclometalated Iridium (III) Complex as a Microtubule Probe for Correlative Superâ€“Resolution Fluorescence and Electron Microscopy ( <i>Adv. Mater.</i> 39/2020). <i>Advanced Materials</i> , 2020, 32, 2070296.	21.0	0

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73	Brownian Tomography of Biomolecules and Soft Polymer Assemblies. <i>Microscopy and Microanalysis</i> , 2020, 26, 1024-1025.	0.4	0
74	The F-BAR Protein PACSIN 2 Specifically Coats the Anastomosing Intracellular Membrane Systems of Platelets and Megakaryocytes,. <i>Blood</i> , 2011, 118, 3261-3261.	1.4	0
75	The F-BAR Protein PACSIN2 Regulates Platelet Intracellular Membrane Architecture and in Vivo Hemostatic Functions. <i>Blood</i> , 2014, 124, 4154-4154.	1.4	0
76	Targeting Macrophages and Synoviocytes Intracellular Milieu to Augment Anti-inflammatory Drug Potency. <i>Advanced Therapeutics</i> , 2022, 5, .	3.2	0