

Katharina Achazi

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

2,279
citations

236612

25
h-index

243296

44
g-index

81
all docs

81
docs citations

81
times ranked

3811
citing authors

#	ARTICLE	IF	CITATIONS
1	Mussel-Inspired Dendritic Polymers as Universal Multifunctional Coatings. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11650-11655.	7.2	202
2	The specificity of cytokinin signalling in <i>Arabidopsis thaliana</i> is mediated by differing ligand affinities and expression profiles of the receptors. <i>Plant Journal</i> , 2011, 67, 157-168.	2.8	137
3	A facile approach for dual-responsive prodrug nanogels based on dendritic polyglycerols with minimal leaching. <i>Journal of Controlled Release</i> , 2014, 174, 209-216.	4.8	128
4	Rodents as Sentinels for the Prevalence of Tick-Borne Encephalitis Virus. <i>Vector-Borne and Zoonotic Diseases</i> , 2011, 11, 641-647.	0.6	106
5	Combination of Surface Charge and Size Controls the Cellular Uptake of Functionalized Graphene Sheets. <i>Advanced Functional Materials</i> , 2017, 27, 1701837.	7.8	98
6	Charge-conversional and reduction-sensitive poly(vinyl alcohol) nanogels for enhanced cell uptake and efficient intracellular doxorubicin release. <i>Journal of Controlled Release</i> , 2015, 205, 15-24.	4.8	89
7	Injectable degradable PVA microgels prepared by microfluidic technology for controlled osteogenic differentiation of mesenchymal stem cells. <i>Acta Biomaterialia</i> , 2018, 77, 28-37.	4.1	83
8	Surface-Independent Hierarchical Coatings with Superamphiphobic Properties. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29117-29127.	4.0	71
9	Understanding the Interaction of Polyelectrolyte Architectures with Proteins and Biosystems. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3882-3904.	7.2	65
10	Highly Efficient Multivalent 2D Nanosystems for Inhibition of Orthopoxvirus Particles. <i>Advanced Healthcare Materials</i> , 2016, 5, 2922-2930.	3.9	57
11	Fabrication of thermoresponsive nanogels by thermo-nanoprecipitation and <i>in situ</i> encapsulation of bioactives. <i>Polymer Chemistry</i> , 2014, 5, 6909-6913.	1.9	56
12	Engineering thermoresponsive polyether-based nanogels for temperature dependent skin penetration. <i>Polymer Chemistry</i> , 2015, 6, 5827-5831.	1.9	49
13	pH-Responsive Dendritic Core-Multishell Nanocarriers. <i>Journal of Controlled Release</i> , 2014, 185, 99-108.	4.8	45
14	Boronate Cross-Linked ATP- and pH-Responsive Nanogels for Intracellular Delivery of Anticancer Drugs. <i>Advanced Healthcare Materials</i> , 2015, 4, 585-592.	3.9	44
15	Dendronized Multifunctional Amphiphilic Polymers as Efficient Nanocarriers for Biomedical Applications. <i>Macromolecular Rapid Communications</i> , 2015, 36, 254-261.	2.0	44
16	Graphene Sheets with Defined Dual Functionalities for the Strong SARS-CoV-2 Interactions. <i>Small</i> , 2021, 17, e2007091.	5.2	42
17	Tick-borne encephalitis virus triggers inositol-requiring enzyme 1 (IRE1) and transcription factor 6 (ATF6) pathways of unfolded protein response. <i>Virus Research</i> , 2013, 178, 471-477.	1.1	40
18	Multivalent anchored and crosslinked hyperbranched polyglycerol monolayers as antifouling coating for titanium oxide surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 122, 684-692.	2.5	39

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19	Enzymatically Cross-Linked Hyperbranched Polyglycerol Hydrogels as Scaffolds for Living Cells. <i>Biomacromolecules</i> , 2014, 15, 3881-3890.	2.6	38
20	Complex Assembly of Polymer Conjugated Mesoporous Silica Nanoparticles for Intracellular pH-Responsive Drug Delivery. <i>Langmuir</i> , 2016, 32, 12453-12460.	1.6	38
21	Fluorescent Polymer-Single-Walled Carbon Nanotube Complexes with Charged and Noncharged Dendronized Perylene Bisimides for Bioimaging Studies. <i>Small</i> , 2018, 14, e1800796.	5.2	35
22	Hyperbranched Polyglycerol Loaded with (Zinc-)Porphyrins: Photosensitizer Release Under Reductive and Acidic Conditions for Improved Photodynamic Therapy. <i>Biomacromolecules</i> , 2018, 19, 222-238.	2.6	34
23	Polymersome Formation by Amphiphilic Polyglycerol-polydisulfide-polyglycerol and Glutathione-Triggered Intracellular Drug Delivery. <i>Biomacromolecules</i> , 2020, 21, 3353-3363.	2.6	34
24	Cells Undergo Major Changes in the Quantity of Cytoplasmic Organelles after Uptake of Gold Nanoparticles with Biologically Relevant Surface Coatings. <i>ACS Nano</i> , 2020, 14, 2248-2264.	7.3	31
25	Systematic adjustment of charge densities and size of polyglycerol amines reduces cytotoxic effects and enhances cellular uptake. <i>Biomaterials Science</i> , 2015, 3, 1459-1465.	2.6	27
26	Detection and differentiation of tick-borne encephalitis virus subtypes by a reverse transcription quantitative real-time PCR and pyrosequencing. <i>Journal of Virological Methods</i> , 2011, 171, 34-39.	1.0	26
27	Fabrication of nanostructures through self-assembly of non-ionic amphiphiles for biomedical applications. <i>RSC Advances</i> , 2017, 7, 22121-22132.	1.7	26
28	Reductively cleavable polymer-drug conjugates based on dendritic polyglycerol sulfate and monomethyl auristatin E as anticancer drugs. <i>Journal of Controlled Release</i> , 2019, 300, 13-21.	4.8	25
29	Nephropathia epidemica with a 6-week incubation period after occupational exposure to Puumala hantavirus. <i>Journal of Clinical Virology</i> , 2009, 44, 99-101.	1.6	24
30	Active Antibacterial and Antifouling Surface Coating via a Facile One-Step Enzymatic Cross-Linking. <i>Biomacromolecules</i> , 2017, 18, 210-216.	2.6	24
31	Inhibition of Herpes Simplex Virus Type 1 Attachment and Infection by Sulfated Polyglycerols with Different Architectures. <i>Biomacromolecules</i> , 2021, 22, 1545-1554.	2.6	24
32	One-Pot Synthesis of Poly(glycerol-succinic acid) Nanogels for Dermal Delivery. <i>Biomacromolecules</i> , 2019, 20, 1867-1875.	2.6	20
33	Molecular diagnosis of flaviviruses. <i>Future Virology</i> , 2011, 6, 1059-1074.	0.9	19
34	Synthesis of amphiphilic dendronized polymers to study their self-assembly and transport behavior. <i>Polymers for Advanced Technologies</i> , 2014, 25, 1208-1215.	1.6	19
35	Supramolecular hydrophobic guest transport system based on pillar[5]arene. <i>Chemical Communications</i> , 2015, 51, 10326-10329.	2.2	19
36	RNA interference inhibits replication of tick-borne encephalitis virus in vitro. <i>Antiviral Research</i> , 2012, 93, 94-100.	1.9	17

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37	Self-degrading graphene sheets for tumor therapy. <i>Nanoscale</i> , 2020, 12, 14222-14229.	2.8	17
38	Bioluminescence assay for the highly sensitive detection of botulinum neurotoxin A activity. <i>Analyst</i> , 2013, 138, 6154.	1.7	16
39	Aggregation Behavior of Non-ionic Twinned Amphiphiles and Their Application as Biomedical Nanocarriers. <i>Chemistry - an Asian Journal</i> , 2017, 12, 1796-1806.	1.7	16
40	Titanium coating with mussel inspired polymer and bio-orthogonal chemistry enhances antimicrobial activity against <i>Staphylococcus aureus</i> . <i>Materials Science and Engineering C</i> , 2020, 116, 111109.	3.8	16
41	Tick-Borne Encephalitis Virus Replication, Intracellular Trafficking, and Pathogenicity in Human Intestinal Caco-2 Cell Monolayers. <i>PLoS ONE</i> , 2014, 9, e96957.	1.1	15
42	Carbon-based cores with polyglycerol shells – the importance of core flexibility for encapsulation of hydrophobic guests. <i>Journal of Materials Chemistry B</i> , 2015, 3, 719-722.	2.9	15
43	Chemo-Enzymatic Synthesis of Perfluoroalkyl-Functionalized Dendronized Polymers as Cyto-Compatible Nanocarriers for Drug Delivery Applications. <i>Polymers</i> , 2016, 8, 311.	2.0	14
44	Synthesis, Photophysical, and Biological Evaluation of Sulfated Polyglycerol Dendronized Perylenebisimides (PBIs) – A Promising Platform for Anti-Inflammatory Theranostic Agents?. <i>Bioconjugate Chemistry</i> , 2016, 27, 727-736.	1.8	14
45	Noncharged and Charged Monodendronised Perylene Bisimides as Highly Fluorescent Labels and their Bioconjugates. <i>Chemistry - A European Journal</i> , 2017, 23, 4849-4862.	1.7	14
46	Dendrimer-based micelles as cyto-compatible nanocarriers. <i>New Journal of Chemistry</i> , 2019, 43, 11984-11993.	1.4	14
47	Development and characterization of polyclonal peptide antibodies for the detection of Yellow fever virus proteins. <i>Journal of Virological Methods</i> , 2015, 222, 110-116.	1.0	12
48	Responsive Contrast Agents: Synthesis and Characterization of a Tunable Series of pH-Sensitive Near-Infrared Pentamethines. <i>ACS Omega</i> , 2016, 1, 808-817.	1.6	12
49	Nonionic Dendritic and Carbohydrate Based Amphiphiles: Self-Assembly and Transport Behavior. <i>Macromolecular Bioscience</i> , 2018, 18, e1800019.	2.1	12
50	Stimuli-responsive non-ionic Gemini amphiphiles for drug delivery applications. <i>Polymer Chemistry</i> , 2020, 11, 6772-6782.	1.9	12
51	Fabrication of oligo-glycerol based hydrolase responsive amphiphilic nanocarriers. <i>Polymers for Advanced Technologies</i> , 2020, 31, 1208-1217.	1.6	12
52	One-pot gram-scale synthesis of virucidal heparin-mimicking polymers as HSV-1 inhibitors. <i>Chemical Communications</i> , 2021, 57, 11948-11951.	2.2	12
53	Encapsulation and cellular internalization of cyanine dye using amphiphilic dendronized polymers. <i>European Polymer Journal</i> , 2015, 69, 416-428.	2.6	11
54	Synthesis, self-assembly, and photocrosslinking of fullerene-polyglycerol amphiphiles as nanocarriers with controlled transport properties. <i>Chemical Communications</i> , 2016, 52, 4373-4376.	2.2	11

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55	Synthesis of non-ionic bolaamphiphiles and study of their self-assembly and transport behaviour for drug delivery applications. <i>RSC Advances</i> , 2018, 8, 31777-31782.	1.7	11
56	Fullerene Polyglycerol Amphiphiles as Unimolecular Transporters. <i>Langmuir</i> , 2017, 33, 6595-6600.	1.6	10
57	Biodegradable Dendritic Polyglycerol Sulfate for the Delivery and Tumor Accumulation of Cytostatic Anticancer Drugs. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 2569-2579.	2.6	9
58	Oligo-glycerol based non-ionic amphiphilic nanocarriers for lipase mediated controlled drug release. <i>RSC Advances</i> , 2020, 10, 37555-37563.	1.7	9
59	Serological versus PCR methods for the detection of tick-borne encephalitis virus infections in humans. <i>Future Virology</i> , 2007, 2, 565-572.	0.9	8
60	Design and Synthesis of PEG-Oligoglycerol Sulfates as Multivalent Inhibitors for the Scavenger Receptor LOX-1. <i>Biomacromolecules</i> , 2019, 20, 1157-1166.	2.6	8
61	Non-ionic PEG-oligoglycerol dendron conjugated nano-carriers for dermal drug delivery. <i>International Journal of Pharmaceutics</i> , 2020, 580, 119212.	2.6	8
62	Wechselwirkung von Polyelektrolyt- α -Architekturen mit Proteinen und Biosystemen. <i>Angewandte Chemie</i> , 2021, 133, 3926-3950.	1.6	8
63	Amphiphilic Co-polypeptides Self-Assembled into Spherical Nanoparticles for Dermal Drug Delivery. <i>ACS Applied Nano Materials</i> , 2021, 4, 6709-6721.	2.4	8
64	Synthesis of non-ionic and enzyme-responsive bolaamphiphiles for drug delivery applications. <i>European Polymer Journal</i> , 2018, 109, 506-522.	2.6	7
65	Droplet-Based Microfluidic Templating of Polyglycerol-Based Microgels for the Encapsulation of Cells: A Comparative Study. <i>Macromolecular Bioscience</i> , 2018, 18, e1800116.	2.1	7
66	Tunable Polyglycerol-Based Redox-Responsive Nanogels for Efficient Cytochrome C Delivery. <i>Pharmaceutics</i> , 2021, 13, 1276.	2.0	7
67	Heterobifunctional Dyes: Highly Fluorescent Linkers Based on Cyanine Dyes. <i>ChemistryOpen</i> , 2017, 6, 437-446.	0.9	6
68	Lipase-mediated synthesis of sugar-PEG-based amphiphiles for encapsulation and stabilization of indocyanine green. <i>RSC Advances</i> , 2017, 7, 37534-37541.	1.7	6
69	Newer Non-ionic A ₂ B ₂ -Type Enzyme-Responsive Amphiphiles for Drug Delivery. <i>ChemMedChem</i> , 2021, 16, 1457-1466.	1.6	6
70	Polyanionic Amphiphilic Dendritic Polyglycerols as Broad-Spectrum Viral Inhibitors with a Virucidal Mechanism. <i>Biomacromolecules</i> , 2022, 23, 983-991.	2.6	6
71	Chemoenzymatic synthesis of dendronized polymers for cyanine dye encapsulation. <i>Advances in Polymer Technology</i> , 2018, 37, 1797-1805.	0.8	5
72	Chemoenzymatic Synthesis of D-Glucitol-Based Non-Ionic Amphiphilic Architectures as Nanocarriers. <i>Polymers</i> , 2020, 12, 1421.	2.0	5

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73	Hydroquinone-functionalized cyanine dye as reduction-sensitive probe for imaging of biological reducing species. <i>Dyes and Pigments</i> , 2022, 201, 110198.	2.0	4
74	Gram Scale Synthesis of Dual-Responsive Dendritic Polyglycerol Sulfate as Drug Delivery System. <i>Polymers</i> , 2021, 13, 982.	2.0	3
75	Graphene-Based Bacterial Filtration via Electrostatic Adsorption. <i>Advanced Materials Interfaces</i> , 0, , 2101917.	1.9	3
76	Synthesis of d-erythritol-based Gemini amphiphilic nanotransporters. <i>Polymers for Advanced Technologies</i> , 2022, 33, 2601-2609.	1.6	3
77	Tumor-pH activated charge-conversional and reducible poly(vinyl alcohol) nanogels for enhanced cell uptake and intracellular DOX release. <i>Journal of Controlled Release</i> , 2015, 213, e108.	4.8	1
78	Tick-Borne Encephalitis Viruses. , 2014, , 229-242.		0