Katharina Achazi

List of Publications by Year
in descending order

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78	2,279	236612	243296
papers	citations	25 h-index	44 g-index

81	81	81	3811
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Polyanionic Amphiphilic Dendritic Polyglycerols as Broad-Spectrum Viral Inhibitors with a Virucidal Mechanism. Biomacromolecules, 2022, 23, 983-991.	2.6	6
2	Hydroquinone-functionalized cyanine dye as reduction-sensitive probe for imaging of biological reducing species. Dyes and Pigments, 2022, 201, 110198.	2.0	4
3	Synthesis of <scp>d</scp>â€<scp>glucitol</scp>based Gemini amphiphilic nanotransporters. Polymers for Advanced Technologies, 2022, 33, 2601-2609.	1.6	3
4	Wechselwirkung von Polyelektrolytâ€Architekturen mit Proteinen und Biosystemen. Angewandte Chemie, 2021, 133, 3926-3950.	1.6	8
5	Understanding the Interaction of Polyelectrolyte Architectures with Proteins and Biosystems. Angewandte Chemie - International Edition, 2021, 60, 3882-3904.	7.2	65
6	Graphene Sheets with Defined Dual Functionalities for the Strong SARSâ€CoVâ€2 Interactions. Small, 2021, 17, e2007091.	5.2	42
7	Newer Nonâ€ionic A₂B₂â€Type Enzymeâ€Responsive Amphiphiles for Drug Delivery. ChemMedChem, 2021, 16, 1457-1466.	1.6	6
8	Inhibition of Herpes Simplex Virus Type 1 Attachment and Infection by Sulfated Polyglycerols with Different Architectures. Biomacromolecules, 2021, 22, 1545-1554.	2.6	24
9	Gram Scale Synthesis of Dual-Responsive Dendritic Polyglycerol Sulfate as Drug Delivery System. Polymers, 2021, 13, 982.	2.0	3
10	Biodegradable Dendritic Polyglycerol Sulfate for the Delivery and Tumor Accumulation of Cytostatic Anticancer Drugs. ACS Biomaterials Science and Engineering, 2021, 7, 2569-2579.	2.6	9
11	Amphiphilic Co-polypeptides Self-Assembled into Spherical Nanoparticles for Dermal Drug Delivery. ACS Applied Nano Materials, 2021, 4, 6709-6721.	2.4	8
12	Tunable Polyglycerol-Based Redox-Responsive Nanogels for Efficient Cytochrome C Delivery. Pharmaceutics, 2021, 13, 1276.	2.0	7
13	One-pot gram-scale synthesis of virucidal heparin-mimicking polymers as HSV-1 inhibitors. Chemical Communications, 2021, 57, 11948-11951.	2.2	12
14	Stimuli-responsive non-ionic Gemini amphiphiles for drug delivery applications. Polymer Chemistry, 2020, 11, 6772-6782.	1.9	12
15	Chemoenzymatic Synthesis of D-Glucitol-Based Non-Ionic Amphiphilic Architectures as Nanocarriers. Polymers, 2020, 12, 1421.	2.0	5
16	Non-ionic PEG-oligoglycerol dendron conjugated nano-carriers for dermal drug delivery. International Journal of Pharmaceutics, 2020, 580, 119212.	2.6	8
17	Self-degrading graphene sheets for tumor therapy. Nanoscale, 2020, 12, 14222-14229.	2.8	17
18	Polymersome Formation by Amphiphilic Polyglycerol-b-polydisulfide-b-polyglycerol and Glutathione-Triggered Intracellular Drug Delivery. Biomacromolecules, 2020, 21, 3353-3363.	2.6	34

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19	Fabrication of oligoâ€glycerol based hydrolase responsive amphiphilic nanocarriers. Polymers for Advanced Technologies, 2020, 31, 1208-1217.	1.6	12
20	Cells Undergo Major Changes in the Quantity of Cytoplasmic Organelles after Uptake of Gold Nanoparticles with Biologically Relevant Surface Coatings. ACS Nano, 2020, 14, 2248-2264.	7.3	31
21	Titanium coating with mussel inspired polymer and bio-orthogonal chemistry enhances antimicrobial activity against Staphylococcus aureus. Materials Science and Engineering C, 2020, 116, 111109.	3.8	16
22	Oligo-glycerol based non-ionic amphiphilic nanocarriers for lipase mediated controlled drug release. RSC Advances, 2020, 10, 37555-37563.	1.7	9
23	Dendrimer-based micelles as cyto-compatible nanocarriers. New Journal of Chemistry, 2019, 43, 11984-11993.	1.4	14
24	One-Pot Synthesis of Poly(glycerol-co-succinic acid) Nanogels for Dermal Delivery. Biomacromolecules, 2019, 20, 1867-1875.	2.6	20
25	Reductively cleavable polymer-drug conjugates based on dendritic polyglycerol sulfate and monomethyl auristatin E as anticancer drugs. Journal of Controlled Release, 2019, 300, 13-21.	4.8	25
26	Design and Synthesis of PEG-Oligoglycerol Sulfates as Multivalent Inhibitors for the Scavenger Receptor LOX-1. Biomacromolecules, 2019, 20, 1157-1166.	2.6	8
27	Chemoâ€enzymatic synthesis of dendronized polymers for cyanine dye encapsulation. Advances in Polymer Technology, 2018, 37, 1797-1805.	0.8	5
28	Hyperbranched Polyglycerol Loaded with (Zinc-)Porphyrins: Photosensitizer Release Under Reductive and Acidic Conditions for Improved Photodynamic Therapy. Biomacromolecules, 2018, 19, 222-238.	2.6	34
29	Synthesis of non-ionic bolaamphiphiles and study of their self-assembly and transport behaviour for drug delivery applications. RSC Advances, 2018, 8, 31777-31782.	1.7	11
30	Synthesis of non-ionic and enzyme-responsive bolaamphiphiles for drug delivery applications. European Polymer Journal, 2018, 109, 506-522.	2.6	7
31	Nonionic Dendritic and Carbohydrate Based Amphiphiles: Selfâ€Assembly and Transport Behavior. Macromolecular Bioscience, 2018, 18, e1800019.	2.1	12
32	Injectable degradable PVA microgels prepared by microfluidic technology for controlled osteogenic differentiation of mesenchymal stem cells. Acta Biomaterialia, 2018, 77, 28-37.	4.1	83
33	Dropletâ€Based Microfluidic Templating of Polyglycerolâ€Based Microgels for the Encapsulation of Cells: A Comparative Study. Macromolecular Bioscience, 2018, 18, e1800116.	2.1	7
34	Fluorescent Polymerâ€"Singleâ€Walled Carbon Nanotube Complexes with Charged and Noncharged Dendronized Perylene Bisimides for Bioimaging Studies. Small, 2018, 14, e1800796.	5.2	35
35	Noncharged and Charged Monodendronised Perylene Bisimides as Highly Fluorescent Labels and their Bioconjugates. Chemistry - A European Journal, 2017, 23, 4849-4862.	1.7	14
36	Fullerene Polyglycerol Amphiphiles as Unimolecular Transporters. Langmuir, 2017, 33, 6595-6600.	1.6	10

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37	Fabrication of nanostructures through self-assembly of non-ionic amphiphiles for biomedical applications. RSC Advances, 2017, 7, 22121-22132.	1.7	26
38	Aggregation Behavior of Nonâ€ionic Twinned Amphiphiles and Their Application as Biomedical Nanocarriers. Chemistry - an Asian Journal, 2017, 12, 1796-1806.	1.7	16
39	Heterobifunctional Dyes: Highly Fluorescent Linkers Based on Cyanine Dyes. ChemistryOpen, 2017, 6, 437-446.	0.9	6
40	Active Antibacterial and Antifouling Surface Coating via a Facile One-Step Enzymatic Cross-Linking. Biomacromolecules, 2017, 18, 210-216.	2.6	24
41	Combination of Surface Charge and Size Controls the Cellular Uptake of Functionalized Graphene Sheets. Advanced Functional Materials, 2017, 27, 1701837.	7.8	98
42	Lipase-mediated synthesis of sugarâ€“PEG-based amphiphiles for encapsulation and stabilization of indocyanine green. RSC Advances, 2017, 7, 37534-37541.	1.7	6
43	Chemo-Enzymatic Synthesis of Perfluoroalkyl-Functionalized Dendronized Polymers as Cyto-Compatible Nanocarriers for Drug Delivery Applications. Polymers, 2016, 8, 311.	2.0	14
44	Complex Assembly of Polymer Conjugated Mesoporous Silica Nanoparticles for Intracellular pH-Responsive Drug Delivery. Langmuir, 2016, 32, 12453-12460.	1.6	38
45	Highly Efficient Multivalent 2D Nanosystems for Inhibition of Orthopoxvirus Particles. Advanced Healthcare Materials, 2016, 5, 2922-2930.	3.9	57
46	Surface-Independent Hierarchical Coatings with Superamphiphobic Properties. ACS Applied Materials & Interfaces, 2016, 8, 29117-29127.	4.0	71
47	Responsive Contrast Agents: Synthesis and Characterization of a Tunable Series of pH-Sensitive Near-Infrared Pentamethines. ACS Omega, 2016, 1, 808-817.	1.6	12
48	Synthesis, Photophysical, and Biological Evaluation of Sulfated Polyglycerol Dendronized Perylenebisimides (PBIs)â€”A Promising Platform for Anti-Inflammatory Theranostic Agents?. Bioconjugate Chemistry, 2016, 27, 727-736.	1.8	14
49	Synthesis, self-assembly, and photocrosslinking of fullerene-polyglycerol amphiphiles as nanocarriers with controlled transport properties. Chemical Communications, 2016, 52, 4373-4376.	2.2	11
50	Supramolecular hydrophobic guest transport system based on pillar[5]arene. Chemical Communications, 2015, 51, 10326-10329.	2.2	19
51	Tumor-pH activated charge-conversional and reducible poly(vinyl alcohol) nanogels for enhanced cell uptake and intracellular DOX release. Journal of Controlled Release, 2015, 213, e108.	4.8	1
52	Engineering thermoresponsive polyether-based nanogels for temperature dependent skin penetration. Polymer Chemistry, 2015, 6, 5827-5831.	1.9	49
53	Development and characterization of polyclonal peptide antibodies for the detection of Yellow fever virus proteins. Journal of Virological Methods, 2015, 222, 110-116.	1.0	12
54	Systematic adjustment of charge densities and size of polyglycerol amines reduces cytotoxic effects and enhances cellular uptake. Biomaterials Science, 2015, 3, 1459-1465.	2.6	27

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55	Encapsulation and cellular internalization of cyanine dye using amphiphilic dendronized polymers. European Polymer Journal, 2015, 69, 416-428.	2.6	11
56	Boronate Crossâ€linked ATPâ€•and pHâ€Responsive Nanogels for Intracellular Delivery of Anticancer Drugs. Advanced Healthcare Materials, 2015, 4, 585-592.	3.9	44
57	Charge-conversional and reduction-sensitive poly(vinyl alcohol) nanogels for enhanced cell uptake and efficient intracellular doxorubicin release. Journal of Controlled Release, 2015, 205, 15-24.	4.8	89
58	Carbon-based cores with polyglycerol shells â€“ the importance of core flexibility for encapsulation of hydrophobic guests. Journal of Materials Chemistry B, 2015, 3, 719-722.	2.9	15
59	Dendronized Multifunctional Amphiphilic Polymers as Efficient Nanocarriers for Biomedical Applications. Macromolecular Rapid Communications, 2015, 36, 254-261.	2.0	44
60	Tick-Borne Encephalitis Virus Replication, Intracellular Trafficking, and Pathogenicity in Human Intestinal Caco-2 Cell Monolayers. PLoS ONE, 2014, 9, e96957.	1.1	15
61	Multivalent anchored and crosslinked hyperbranched polyglycerol monolayers as antifouling coating for titanium oxide surfaces. Colloids and Surfaces B: Biointerfaces, 2014, 122, 684-692.	2.5	39
62	A facile approach for dual-responsive prodrug nanogels based on dendritic polyglycerols with minimal leaching. Journal of Controlled Release, 2014, 174, 209-216.	4.8	128
63	pH-Responsive Dendritic Coreâ€“Multishell Nanocarriers. Journal of Controlled Release, 2014, 185, 99-108.	4.8	45
64	Fabrication of thermoresponsive nanogels by thermo-nanoprecipitation and in situ encapsulation of bioactives. Polymer Chemistry, 2014, 5, 6909-6913.	1.9	56
65	Synthesis of amphiphilic dendronized polymers to study their selfâ€assembly and transport behavior. Polymers for Advanced Technologies, 2014, 25, 1208-1215.	1.6	19
66	Enzymatically Cross-Linked Hyperbranched Polyglycerol Hydrogels as Scaffolds for Living Cells. Biomacromolecules, 2014, 15, 3881-3890.	2.6	38
67	Musselâ€Inspired Dendritic Polymers as Universal Multifunctional Coatings. Angewandte Chemie - International Edition, 2014, 53, 11650-11655.	7.2	202
68	Tick-Borne Encephalitis Viruses. , 2014, , 229-242.		0
69	Bioluminescence assay for the highly sensitive detection of botulinum neurotoxin A activity. Analyst, The, 2013, 138, 6154.	1.7	16
70	Tick-borne encephalitis virus triggers inositol-requiring enzyme 1 (IRE1) and transcription factor 6 (ATF6) pathways of unfolded protein response. Virus Research, 2013, 178, 471-477.	1.1	40
71	RNA interference inhibits replication of tick-borne encephalitis virus in vitro. Antiviral Research, 2012, 93, 94-100.	1.9	17
72	Rodents as Sentinels for the Prevalence of Tick-Borne Encephalitis Virus. Vector-Borne and Zoonotic Diseases, 2011, 11, 641-647.	0.6	106

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73	The specificity of cytokinin signalling in Arabidopsis thaliana is mediated by differing ligand affinities and expression profiles of the receptors. Plant Journal, 2011, 67, 157-168.	2.8	137
74	Detection and differentiation of tick-borne encephalitis virus subtypes by a reverse transcription quantitative real-time PCR and pyrosequencing. Journal of Virological Methods, 2011, 171, 34-39.	1.0	26
75	Molecular diagnosis of flaviviruses. Future Virology, 2011, 6, 1059-1074.	0.9	19
76	Nephropathia epidemica with a 6-week incubation period after occupational exposure to Puumala hantavirus. Journal of Clinical Virology, 2009, 44, 99-101.	1.6	24
77	Serological versus PCR methods for the detection of tick-borne encephalitis virus infections in humans. Future Virology, 2007, 2, 565-572.	0.9	8
78	Grapheneâ€Based Bacterial Filtration via Electrostatic Adsorption. Advanced Materials Interfaces, 0, , 2101917.	1.9	3