

Jens Dervedde

List of Publications by Year in descending order

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85
papers

3,982
citations

126708

33
h-index

123241

61
g-index

91
all docs

91
docs citations

91
times ranked

5289
citing authors

#	ARTICLE	IF	CITATIONS
1	Multivalency as a Chemical Organization and Action Principle. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10472-10498.	7.2	854
2	Dendritic polyglycerol sulfates as multivalent inhibitors of inflammation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 19679-19684.	3.3	243
3	Optical Aptasensors for the Analysis of the Vascular Endothelial Growth Factor (VEGF). <i>Analytical Chemistry</i> , 2012, 84, 6192-6198.	3.2	177
4	Sequence-Defined Glycopolymer Segments Presenting Mannose: Synthesis and Lectin Binding Affinity. <i>Biomacromolecules</i> , 2012, 13, 1845-1852.	2.6	132
5	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
6	SNARE motif-mediated sorting of synaptobrevin by the endocytic adaptors clathrin assembly lymphoid myeloid leukemia (CALM) and AP180 at synapses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 13540-13545.	3.3	123
7	Modular synthesis of multivalent glycoarchitectures and their unique selectin binding behavior. <i>Chemical Communications</i> , 2008, , 5851.	2.2	90
8	DNA-programmed spatial screening of carbohydrate-lectin interactions. <i>Chemical Science</i> , 2011, 2, 770.	3.7	85
9	Synthesis of Dendritic Polyglycerol Anions and Their Efficiency Toward L-Selectin Inhibition. <i>Biomacromolecules</i> , 2011, 12, 2502-2511.	2.6	78
10	The Role of Dimension in Multivalent Binding Events: Structure-Activity Relationship of Dendritic Polyglycerol Sulfate Binding to L-Selectin in Correlation with Size and Surface Charge Density. <i>Macromolecular Bioscience</i> , 2011, 11, 1088-1098.	2.1	67
11	L-Selectin - A dynamic regulator of leukocyte migration. <i>European Journal of Cell Biology</i> , 2012, 91, 257-264.	1.6	66
12	Understanding the Interaction of Polyelectrolyte Architectures with Proteins and Biosystems. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3882-3904.	7.2	65
13	Polyglycerolsulfate Functionalized Gold Nanorods as Optoacoustic Signal Nanoamplifiers for In Vivo Bioimaging of Rheumatoid Arthritis. <i>Theranostics</i> , 2014, 4, 629-641.	4.6	65
14	hyp Gene Products in <i>Alcaligenes Eutrophus</i> are part of a Hydrogenase-Maturation System. <i>FEBS Journal</i> , 1996, 235, 351-358.	0.2	62
15	Duplication of hyp genes involved in maturation of [NiFe] hydrogenases in <i>Alcaligenes eutrophus</i> H16. <i>Archives of Microbiology</i> , 1998, 170, 451-459.	1.0	62
16	Size Dependence of Steric Shielding and Multivalency Effects for Globular Binding Inhibitors. <i>Journal of the American Chemical Society</i> , 2015, 137, 2572-2579.	6.6	60
17	Carboxyl-terminal processing of the cytoplasmic NAD-reducing hydrogenase of <i>Alcaligenes eutrophus</i> requires the hoxW gene product. <i>Journal of Bacteriology</i> , 1996, 178, 2368-2374.	1.0	58
18	Anti-inflammatory properties of GLPss58, a sulfated polysaccharide from <i>Ganoderma lucidum</i> . <i>International Journal of Biological Macromolecules</i> , 2018, 107, 486-493.	3.6	55

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19	Identification of nucleolin as a new L-selectin ligand. <i>Biochemical Journal</i> , 2001, 360, 531-538.	1.7	51
20	Engineering thermoresponsive polyether-based nanogels for temperature dependent skin penetration. <i>Polymer Chemistry</i> , 2015, 6, 5827-5831.	1.9	49
21	Polysulfates Block SARS-CoV-2 Uptake through Electrostatic Interactions**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15870-15878.	7.2	49
22	N-Glycan Analysis of Recombinant L-Selectin Reveals Sulfated GalNAc and GalNAc~GalNAc Motifs. <i>Journal of Proteome Research</i> , 2010, 9, 3403-3411.	1.8	45
23	Analysis of a pleiotropic gene region involved in formation of catalytically active hydrogenases in <i>Alcaligenes eutrophus</i> H16. <i>Archives of Microbiology</i> , 1993, 159, 545-553.	1.0	43
24	Identification of nucleolin as a new L-selectin ligand. <i>Biochemical Journal</i> , 2001, 360, 531.	1.7	41
25	Multivalent Presentation of Mannose on Hyperbranched Polyglycerol and their Interaction with Concanavalin A Lectin. <i>ChemBioChem</i> , 2011, 12, 1075-1083.	1.3	41
26	Polymeric Selectin Ligands Mimicking Complex Carbohydrates: From Selectin Binders to Modifiers of Macrophage Migration. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1416-1421.	7.2	41
27	The Interaction of Protein Kinase C Isozymes $\hat{1}_\alpha$, $\hat{1}_\beta$, and $\hat{1}_\gamma$ with the Cytoplasmic Domain of L-selectin Is Modulated by Phosphorylation of the Receptor. <i>Journal of Biological Chemistry</i> , 2004, 279, 34472-34480.	1.6	39
28	Carbohydrate~PNA and Aptamer~PNA Conjugates for the Spatial Screening of Lectins and Lectin Assemblies. <i>ChemBioChem</i> , 2013, 14, 236-250.	1.3	39
29	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
30	Enzymatically Cross-Linked Hyperbranched Polyglycerol Hydrogels as Scaffolds for Living Cells. <i>Biomacromolecules</i> , 2014, 15, 3881-3890.	2.6	38
31	Polyvalent 2D Entry Inhibitors for Pseudorabies and African Swine Fever Virus. <i>Macromolecular Bioscience</i> , 2017, 17, 1600499.	2.1	36
32	Site-selective modification of proteins for the synthesis of structurally defined multivalent scaffolds. <i>Chemical Communications</i> , 2012, 48, 522-524.	2.2	35
33	Alkyne Phosphonites for Sequential Azide~Azide Couplings. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9504-9508.	7.2	34
34	The Transmembrane Domains of L-selectin and CD44 Regulate Receptor Cell Surface Positioning and Leukocyte Adhesion under Flow. <i>Journal of Biological Chemistry</i> , 2010, 285, 13490-13497.	1.6	32
35	Shell Cleavable Dendritic Polyglycerol Sulfates Show High Anti~Inflammatory Properties by Inhibiting L~Selectin Binding and Complement Activation. <i>Advanced Healthcare Materials</i> , 2015, 4, 2154-2162.	3.9	32
36	Mannose~Functionalized Hyperbranched Polyglycerol Loaded with Zinc Porphyrin: Investigation of the Multivalency Effect in Antibacterial Photodynamic Therapy. <i>Chemistry - A European Journal</i> , 2017, 23, 3918-3930.	1.7	32

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37	Inhibition of selectin binding by colloidal gold with functionalized shells. <i>Chemical Communications</i> , 2009, , 932.	2.2	30
38	Interactions of Fullereneâ€Polyglycerol Sulfates at Viral and Cellular Interfaces. <i>Small</i> , 2018, 14, e1800189.	5.2	30
39	The Effect of Polyglycerol Sulfate Branching On Inflammatory Processes. <i>Macromolecular Bioscience</i> , 2014, 14, 643-654.	2.1	26
40	Detecting and Quantifying Biomolecular Interactions of a Dendritic Polyglycerol Sulfate Nanoparticle Using Fluorescence Lifetime Measurements. <i>Molecules</i> , 2016, 21, 22.	1.7	26
41	Multivalent interaction and selectivities in selectin binding of functionalized gold colloids decorated with carbohydrate mimetics. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 7448.	1.5	25
42	Iron oxide nanoparticles stabilized with dendritic polyglycerols as selective MRI contrast agents. <i>Nanoscale</i> , 2014, 6, 9646-9654.	2.8	24
43	Biodegradable Polyglycerol Sulfates Exhibit Promising Features for Anti-inflammatory Applications. <i>Biomacromolecules</i> , 2018, 19, 4524-4533.	2.6	24
44	Chemoselective Staudinger-phosphite reaction of symmetrical glycosyl-phosphites with azido-peptides and polyglycerols. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 6211.	1.5	22
45	Platelet-derived growth factor receptor $\hat{1}^2$ activation and regulation in murine myelofibrosis. <i>Haematologica</i> , 2020, 105, 2083-2094.	1.7	20
46	Analysis of thezwf-pgl-eda-operon inPseudomonas putidastrains H and KT2440. <i>FEMS Microbiology Letters</i> , 2002, 215, 89-95.	0.7	18
47	Rational Design of a DNAâ€Scaffolded Highâ€Affinity Binder for Langerin. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21016-21022.	7.2	18
48	Effects of dendritic polyglycerol sulfate on articular chondrocytes. <i>Inflammation Research</i> , 2015, 64, 917-928.	1.6	17
49	In Vivo Imaging of Fluorescent Probes Linked to Antibodies Against Human and Rat Vascular Endothelial Growth Factor. , 2016, 57, 759.		17
50	A33scFv Green fluorescent protein, a recombinant single-chain fusion protein for tumor targeting. <i>Protein Engineering, Design and Selection</i> , 2007, 20, 583-590.	1.0	16
51	A Crucial Role of Lâ€Selectin in C Proteinâ€Induced Experimental Polymyositis in Mice. <i>Arthritis and Rheumatology</i> , 2014, 66, 1864-1871.	2.9	16
52	Understanding Selectin Counter-Receptor Binding from Electrostatic Energy Computations and Experimental Binding Studies. <i>Journal of Physical Chemistry B</i> , 2013, 117, 16443-16454.	1.2	15
53	Cupulin Is a Zona Pellucida-Like Domain Protein and Major Component of the Cupula from the Inner Ear. <i>PLoS ONE</i> , 2014, 9, e111917.	1.1	15
54	Synthesis and Evaluation of Nonsulfated and Sulfated Glycopolymers as L- and P-selectin Inhibitors. <i>Journal of Carbohydrate Chemistry</i> , 2011, 30, 347-360.	0.4	14

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55	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
56	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
57	Single-Step Purification of Monomeric I-Selectin via Aptamer Affinity Chromatography. <i>Sensors</i> , 2017, 17, 226.	2.1	14
58	Orthogonal dual-modification of proteins for the engineering of multivalent protein scaffolds. <i>Beilstein Journal of Organic Chemistry</i> , 2015, 11, 784-791.	1.3	13
59	A toolbox approach for multivalent presentation of ligand-receptor recognition on a supramolecular scaffold. <i>Journal of Materials Chemistry B</i> , 2018, 6, 4216-4222.	2.9	13
60	Small structural differences of targeted anti-tumor toxins result in strong variation of protein expression. <i>Protein Expression and Purification</i> , 2013, 91, 54-60.	0.6	12
61	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
62	Sulfated Dendritic Polyglycerol Is a Potent Complement Inhibitor. <i>Biomacromolecules</i> , 2019, 20, 3809-3818.	2.6	12
63	Production of bifunctional single-chain antibody-based fusion proteins in <i>Pichia pastoris</i> supernatants. <i>Bioprocess and Biosystems Engineering</i> , 2008, 31, 559-568.	1.7	11
64	Dendritic polyglycerols are modulators of microglia-astrocyte crosstalk. <i>Future Neurology</i> , 2019, 14, FNL31.	0.9	11
65	Synthesis of multivalent carbohydrate mimetics with aminopolyol end groups and their evaluation as L-selectin inhibitors. <i>Beilstein Journal of Organic Chemistry</i> , 2015, 11, 638-646.	1.3	10
66	Structural requirements of mono- and multivalent L-selectin blocking aptamers for enhanced receptor inhibition in vitro and in vivo. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 901-908.	1.7	9
67	Significantly enhanced proteolytic activity of cyclen complexes by monoalkylation. <i>Dalton Transactions</i> , 2016, 45, 10500-10504.	1.6	8
68	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
69	The Application of Dual-Layer, Mussel-Inspired, Antifouling Polyglycerol-Based Coatings in Ventricular Assist Devices. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000272.	1.9	8
70	Wechselwirkung von Polyelektrolyt-Architekturen mit Proteinen und Biosystemen. <i>Angewandte Chemie</i> , 2021, 133, 3926-3950.	1.6	8
71	Synthesis and functionalization of dendritic polyglycerol-based nanogels: application in T cell activation. <i>Journal of Materials Chemistry B</i> , 2021, 10, 96-106.	2.9	8
72	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

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73	Synthesis, Characterization, and Evaluation of Antibacterial Activity of Ferrocenyl-1,2,3-Triazoles, Triazolium Salts, and Triazolylidene Complexes of Gold(I) and Silver(I). <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 1373-1382.	1.0	7
74	Reducing Macro- and Microheterogeneity of N-Glycans Enables the Crystal Structure of the Lectin and EGF-Like Domains of Human L-Selectin To Be Solved at 1.9-Å Resolution. <i>ChemBioChem</i> , 2017, 18, 1338-1345.	1.3	6
75	Heterobifunctional Dyes: Highly Fluorescent Linkers Based on Cyanine Dyes. <i>ChemistryOpen</i> , 2017, 6, 437-446.	0.9	6
76	Chemoenzymatic Synthesis of Functional Sialyl Lewis ^X Mimetics with a Heteroaromatic Core. <i>Chemistry - an Asian Journal</i> , 2014, 9, 2119-2125.	1.7	5
77	A Simple and Robust Method to Prepare Polyelectrolyte Brushes on Polymer Surfaces. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	4
78	Binding activity of recombinant human L-selectin-Fc ³ is modified by sialylation. <i>Biochemical Engineering Journal</i> , 2010, 48, 253-259.	1.8	3
79	Synthesis and comparison of linear and hyperbranched multivalent glycosides for C-type lectin binding. <i>New Journal of Chemistry</i> , 2019, 43, 16012-16016.	1.4	3
80	Rational Design of a DNA-Scaffolded High-Affinity Binder for Langerin. <i>Angewandte Chemie</i> , 2020, 132, 21202-21208.	1.6	3
81	Imaging Keratan Sulfate in Ocular Tissue Sections by Immunofluorescence Microscopy and LA-ICP-MS. <i>ACS Applied Bio Materials</i> , 2022, 5, 853-861.	2.3	3
82	Polymere Selectinliganden als komplexe Glykomimetika: von Selectinbindung bis zur Modifizierung der Makrophagenmigration. <i>Angewandte Chemie</i> , 2017, 129, 1438-1443.	1.6	2
83	Modulating Myeloid Immune Cell Migration Using Multivalently Presented Monosaccharide Ligands for Advanced Immunotherapy. <i>Advanced Therapeutics</i> , 2019, 2, 1900145.	1.6	2
84	dPGS Regulates the Phenotype of Macrophages via Metabolic Switching. <i>Macromolecular Bioscience</i> , 2019, 19, 1900184.	2.1	1
85	Polysulfate hemmen durch elektrostatische Wechselwirkungen die SARS-CoV-2-Infektion**. <i>Angewandte Chemie</i> , 2021, 133, 16005-16014.	1.6	0