

H Bauke Albada

List of Publications by Year in descending order

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80
papers

2,855
citations

201674

27
h-index

175258

52
g-index

86
all docs

86
docs citations

86
times ranked

4206
citing authors

#	ARTICLE	IF	CITATIONS
1	Small cationic antimicrobial peptides delocalize peripheral membrane proteins. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E1409-18.	7.1	283
2	Structural Complexity in Metal-Organic Frameworks: Simultaneous Modification of Open Metal Sites and Hierarchical Porosity by Systematic Doping with Defective Linkers. Journal of the American Chemical Society, 2014, 136, 9627-9636.	13.7	240
3	Multifunctional, Defect-Engineered Metal-Organic Frameworks with Ruthenium Centers: Sorption and Catalytic Properties. Angewandte Chemie - International Edition, 2014, 53, 7058-7062.	13.8	237
4	Nucleoapzymes: Hemin/G-Quadruplex DNAzyme-Aptamer Binding Site Conjugates with Superior Enzyme-like Catalytic Functions. Journal of the American Chemical Society, 2016, 138, 164-172.	13.7	226
5	Organometallic-Peptide Bioconjugates: Synthetic Strategies and Medicinal Applications. Chemical Reviews, 2016, 116, 11797-11839.	47.7	169
6	Multiplexed Analysis of Genes Using Nucleic Acid-Stabilized Silver-Nanocluster Quantum Dots. ACS Nano, 2014, 8, 11666-11673.	14.6	95
7	Highly Potent Antibacterial Organometallic Peptide Conjugates. Accounts of Chemical Research, 2017, 50, 2510-2518.	15.6	91
8	Proteomic Response of Bacillus subtilis to Lantibiotics Reflects Differences in Interaction with the Cytoplasmic Membrane. Antimicrobial Agents and Chemotherapy, 2012, 56, 5749-5757.	3.2	76
9	Inducible, Site-Specific Protein Labeling by Tyrosine Oxidation-Strain-Promoted (4 + 2) Cycloaddition. Bioconjugate Chemistry, 2017, 28, 1189-1193.	3.6	71
10	Tuning the Activity of a Short Arg-Trp Antimicrobial Peptide by Lipidation of a C- or N-Terminal Lysine Side-Chain. ACS Medicinal Chemistry Letters, 2012, 3, 980-984.	2.8	69
11	ortho-Quinones and Analogues Thereof: Highly Reactive Intermediates for Fast and Selective Biofunctionalization. Chemistry - A European Journal, 2018, 24, 4749-4756.	3.3	67
12	The role of n-3 PUFA-derived fatty acid derivatives and their oxygenated metabolites in the modulation of inflammation. Prostaglandins and Other Lipid Mediators, 2019, 144, 106351.	1.9	66
13	Modulating the activity of short arginine-tryptophan containing antibacterial peptides with N-terminal metallocenoyl groups. Beilstein Journal of Organic Chemistry, 2012, 8, 1753-1764.	2.2	63
14	Rational design of supramolecular hemin/G-quadruplex-dopamine aptamer nucleoapzyme systems with superior catalytic performance. Chemical Science, 2016, 7, 3092-3101.	7.4	63
15	Identification of Chaoborus kairomone chemicals that induce defences in Daphnia. Nature Chemical Biology, 2018, 14, 1133-1139.	8.0	50
16	Probing ATP/ATP-Aptamer or ATP-Aptamer Mutant Complexes by Microscale Thermophoresis and Molecular Dynamics Simulations: Discovery of an ATP-Aptamer Sequence of Superior Binding Properties. Journal of Physical Chemistry B, 2018, 122, 9102-9109.	2.6	48
17	Cu ²⁺ or Fe ³⁺ Terpyridine/Aptamer Conjugates: Nucleoapzymes Catalyzing the Oxidation of Dopamine to Aminochrome. ACS Catalysis, 2018, 8, 1802-1809.	11.2	47
18	Complete microviscosity maps of living plant cells and tissues with a toolbox of targeting mechanoprobes. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18110-18118.	7.1	46

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19	Highly active antibacterial ferrocenoylated or ruthenocenoylated Arg-Trp peptides can be discovered by anl-to-dsubstitution scan. <i>Chemical Science</i> , 2014, 5, 4453-4459.	7.4	44
20	Computational docking simulations of a DNA-aptamer for argininamide and related ligands. <i>Journal of Computer-Aided Molecular Design</i> , 2015, 29, 643-654.	2.9	43
21	The Chemoselective Reactions of Tyrosine-Containing G-Protein-Coupled Receptor Peptides with [Cp*Rh(H ₂ O) ₃](OTf) ₂ , Including 2D NMR Structures and the Biological Consequences. <i>Journal of the American Chemical Society</i> , 2012, 134, 10321-10324.	13.7	42
22	Short Antibacterial Peptides with Significantly Reduced Hemolytic Activity can be Identified by a Systematic $\text{I} \rightarrow \text{D}$ Exchange Scan of their Amino Acid Residues. <i>ACS Combinatorial Science</i> , 2013, 15, 585-592.	3.8	40
23	Oxidation-Induced Cu^{I} -Click Chemistry. <i>Chemical Reviews</i> , 2021, 121, 7032-7058.	47.7	39
24	Influence of lipidation on the mode of action of a small RW-rich antimicrobial peptide. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 1004-1011.	2.6	38
25	Programmed Synthesis by Stimuli-Responsive DNAzyme-Modified Mesoporous SiO ₂ Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11652-11656.	13.8	36
26	Orthogonal, dual protein labelling by tandem cycloaddition of strained alkenes and alkynes to <i>ortho</i> -quinones and azides. <i>Chemical Communications</i> , 2018, 54, 7338-7341.	4.1	31
27	Trivalent Ultrashort Lipopeptides are Potent pH Dependent Antifungal Agents. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 1296-1302.	6.4	29
28	A convenient preparation of several N-linked glycoamino acid building blocks for efficient solid-phase synthesis of glycopeptides. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2002, , 1042-1049.	1.3	27
29	TAC-Scaffolded Tripeptides as Artificial Hydrolytic Receptors: A Combinatorial Approach Toward Esterase Mimics. <i>ACS Combinatorial Science</i> , 2008, 10, 814-824.	3.3	26
30	Aptasensors based on supramolecular structures of nucleic acid-stabilized Ag nanoclusters. <i>Chemical Communications</i> , 2015, 51, 1100-1103.	4.1	25
31	Comparison of Proteomic Responses as Global Approach to Antibiotic Mechanism of Action Elucidation. <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 65, .	3.2	23
32	Silyl-Based Alkyne-Modifying Linker for the Preparation of C-Terminal Acetylene-Derivatized Protected Peptides. <i>Journal of Organic Chemistry</i> , 2012, 77, 9954-9958.	3.2	19
33	Scaffolded amino acids as a close structural mimic of type-3 copper binding sites. <i>Chemical Communications</i> , 2007, , 4895.	4.1	18
34	Highly Porous Nanocrystalline UiO-66 Thin Films via Coordination Modulation Controlled Step-by-Step Liquid-Phase Growth. <i>Crystal Growth and Design</i> , 2019, 19, 1738-1747.	3.0	18
35	Structural and biological implications of the binding of Leu-enkephalin and its metal derivatives to opioid receptors. <i>Dalton Transactions</i> , 2013, 42, 9799.	3.3	17
36	Enantioselective Cu ^{II} -Catalyzed Diels-Alder and Michael Addition Reactions in Water Using Bio-Inspired Triazacyclophane-Based Ligands. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 1714-1720.	2.4	16

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37	Towards Profiles of Resistance Development and Toxicity for the Small Cationic Hexapeptide RWRWRW-NH ₂ . <i>Frontiers in Cell and Developmental Biology</i> , 2016, 4, 86.	3.7	15
38	A Bis-Zn ²⁺ Pyridyl-Salen-Type Complex Conjugated to the ATP Aptamer: An ATPase-Mimicking Nucleoapzyme. <i>ChemBioChem</i> , 2020, 21, 53-58.	2.6	15
39	C-Terminal Acetylene Derivatized Peptides via Silyl-Based Alkyne Immobilization. <i>Organic Letters</i> , 2013, 15, 3126-3129.	4.6	14
40	Synergistic activity of a short lipidated antimicrobial peptide (lipoAMP) and colistin or tobramycin against <i>Pseudomonas aeruginosa</i> from cystic fibrosis patients. <i>MedChemComm</i> , 2016, 7, 148-156.	3.4	14
41	Ultrathin Covalently Bound Organic Layers on Mica: Formation of Atomically Flat Biofunctionalizable Surfaces. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4130-4134.	13.8	14
42	Highly Efficient Mono-Functionalization of Knob-in-Hole Antibodies with Strain-Promoted Click Chemistry. <i>ACS Omega</i> , 2019, 4, 11801-11807.	3.5	14
43	Efficient Reagent-Saving Method for the N-Terminal Labeling of Bioactive Peptides with Organometallic Carboxylic Acids by Solid-Phase Synthesis. <i>Organometallics</i> , 2016, 35, 3192-3196.	2.3	13
44	Site-Specific and Trigger-Activated Modification of Proteins by Means of Catalytic Hemin/G-quadruplex DNAzyme Nanostructures. <i>Bioconjugate Chemistry</i> , 2020, 31, 2283-2287.	3.6	12
45	Synthesis and antibacterial activity of trivalent ultrashort Arg-Trp-based antimicrobial peptides (AMPs). <i>MedChemComm</i> , 2015, 6, 372-376.	3.4	10
46	Attachment of antimicrobial peptides to reverse osmosis membranes by Cu(I)-catalyzed 1,3-dipolar alkyne-azide cycloaddition. <i>RSC Advances</i> , 2016, 6, 91815-91823.	3.6	10
47	Supramolecular micelle-based nucleoapzymes for the catalytic oxidation of dopamine to aminochrome. <i>Chemical Communications</i> , 2016, 52, 5561-5564.	4.1	10
48	Mild Photochemical Biofunctionalization of Glass Microchannels. <i>Langmuir</i> , 2017, 33, 8624-8631.	3.5	10
49	Novel COX-2 products of n-3 polyunsaturated fatty acid-ethanolamine-conjugates identified in RAW264.7 macrophages. <i>Journal of Lipid Research</i> , 2019, 60, 1829-1840.	4.2	10
50	Selective Positioning of Nanosized Metal-Organic Framework Particles at Patterned Substrate Surfaces. <i>Chemistry of Materials</i> , 2020, 32, 9954-9963.	6.7	10
51	Non-Genetic Generation of Antibody Conjugates Based on Chemoenzymatic Tyrosine Click Chemistry. <i>Bioconjugate Chemistry</i> , 2021, 32, 2167-2172.	3.6	10
52	Alizarin Grafting onto Ultrasmall ZnO Nanoparticles: Mode of Binding, Stability, and Colorant Studies. <i>Langmuir</i> , 2021, 37, 1446-1455.	3.5	8
53	Immunomodulating effects of 13- and 16-hydroxylated docosahexaenoyl ethanolamide in LPS stimulated RAW264.7 macrophages. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2021, 1866, 158908.	2.4	8
54	Site-selective and inducible acylation of thrombin using aptamer-catalyst conjugates. <i>Chemical Communications</i> , 2021, 57, 12960-12963.	4.1	7

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55	Molecular sensors reveal the mechano-chemical response of <i>Phytophthora infestans</i> walls and membranes to mechanical and chemical stress. <i>Cell Surface</i> , 2022, 8, 100071.	3.0	7
56	Ultrathin Covalently Bound Organic Layers on Mica: Formation of Atomically Flat Biofunctionalizable Surfaces. <i>Angewandte Chemie</i> , 2017, 129, 4194-4198.	2.0	6
57	Facile functionalization of peptide nucleic acids (PNAs) for antisense and single nucleotide polymorphism detection. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 6710-6714.	2.8	6
58	Single-Molecule Force Spectroscopy of a Tetraaryl Succinonitrile Mechanophore. <i>Journal of Physical Chemistry C</i> , 2022, 126, 1215-1221.	3.1	6
59	Zn(II)-Protoporphyrin IX-Based Photosensitizer-Imprinted Au-Nanoparticle-Modified Electrodes for Photoelectrochemical Applications. <i>Advanced Functional Materials</i> , 2015, 25, 6470-6477.	14.9	5
60	Vectorial Catalysis in Surface-Anchored Nanometer-Sized Metal-Organic Frameworks-Based Microfluidic Devices. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	5
61	Potential scorpionate antibiotics: Targeted hydrolysis of lipid II containing model membranes by vancomycin-TACzyme conjugates and modulation of their antibacterial activity by Zn-ions. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 3721-3724.	2.2	4
62	Copper-Free Cleavage-Sonogashira Conjugation of Silylacetylene Immobilized Peptides. <i>Synthesis</i> , 2014, 46, 2293-2296.	2.3	4
63	Inducible, Selective Labeling of Proteins via Enzymatic Oxidation of Tyrosine. <i>Methods in Molecular Biology</i> , 2019, 2012, 357-368.	0.9	4
64	Detection of methionine- and alanine-recombinant bovine somatotropins and their induced antibodies in serum and milk of cows suggests blood-milk barrier specificity for these compounds. <i>Journal of Dairy Science</i> , 2021, 104, 5069-5078.	3.4	4
65	Synthesis of bisarylethylene-peptide conjugates. <i>Organic Chemistry Frontiers</i> , 2015, 2, 531-535.	4.5	3
66	The Use of Virtual Reality in A Chemistry Lab and Its Impact on Students' Self-Efficacy, Interest, Self-Concept and Laboratory Anxiety. <i>Eurasia Journal of Mathematics, Science and Technology Education</i> , 2022, 18, em2090.	1.3	3
67	DNA-assisted site-selective protein modification. <i>Biopolymers</i> , 2022, 113, e23483.	2.4	3
68	Aptamer-Assisted Bioconjugation of Tyrosine Derivatives with hemin/G-quadruplex (hGQ) DNAzyme Nucleopzyme Nanostructures. <i>ChemCatChem</i> , 2021, 13, 4618-4624.	3.7	2
69	Tuning Activity of Antimicrobial Peptides by Lipidation. , 2020, , 317-334.		2
70	Nanostructure Determines Antifungal Activity of De Novo Designed pH Dependent Histidine Containing Ultra-Short Lipopeptides. <i>Biophysical Journal</i> , 2010, 98, 278a-279a.	0.5	1
71	Triazacyclophane (TAC)-scaffolded histidine and aspartic acid residues as mimics of non-heme metalloenzyme active sites. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 1088-1092.	2.8	1
72	Frontispiece: Ultrathin Covalently Bound Organic Layers on Mica: Formation of Atomically Flat Biofunctionalizable Surfaces. <i>Angewandte Chemie - International Edition</i> , 2017, 56, .	13.8	1

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73	Nucleic Acids Nanoscience at Interfaces Special Issue. Langmuir, 2018, 34, 14691-14691.	3.5	1
74	Frontispiece: Vectorial Catalysis in Surface-Anchored Nanometer-Sized Metal-Organic Frameworks-Based Microfluidic Devices. Angewandte Chemie - International Edition, 2022, 61, .	13.8	1
75	Frontispiz: Ultrathin Covalently Bound Organic Layers on Mica: Formation of Atomically Flat Biofunctionalizable Surfaces. Angewandte Chemie, 2017, 129, .	2.0	0
76	Frontispiece: ortho -Quinones and Analogues Thereof: Highly Reactive Intermediates for Fast and Selective Biofunctionalization. Chemistry - A European Journal, 2018, 24, .	3.3	0
77	Tuning Activity of Antimicrobial Peptides by Lipidation. , 2019, , 1-18.		0
78	Vectorial Catalysis in Surface-Anchored Nanometer-Sized Metal-Organic Frameworks-based Microfluidic Devices. Angewandte Chemie, 0, , .	2.0	0
79	Frontispiz: Vektorielle Katalyse mit oberflächenverankerten nano-metallorganischen Gerüsten in mikrofluidischen Reaktoren. Angewandte Chemie, 2022, 134, .	2.0	0
80	Microsphere Peptide-Based Immunoassay for the Detection of Recombinant Bovine Somatotropin in Injection Preparations. Biosensors, 2022, 12, 138.	4.7	0