

Karl Gademann

List of Publications by Citations

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168
papers

7,737
citations

43
h-index

84
g-index

213
ext. papers

8,636
ext. citations

6.5
avg, IF

6.02
L-index

#	Paper	IF	Citations
168	Peptide Folding: When Simulation Meets Experiment. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 236-240	16.4	1258
167	The NAD(+) precursor nicotinamide riboside enhances oxidative metabolism and protects against high-fat diet-induced obesity. <i>Cell Metabolism</i> , 2012 , 15, 838-47	24.6	732
166	α - and β -Peptides with Proteinaceous Side Chains: Synthesis and solution structures of constitutional isomers, a novel helical secondary structure and the influence of solvation and hydrophobic interactions on folding. <i>Helvetica Chimica Acta</i> , 1998 , 81, 932-982	2	287
165	Pleated Sheets and Turns of β Peptides with Proteinogenic Side Chains. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 1595-1597	16.4	228
164	Secondary Metabolites from Cyanobacteria: Complex Structures and Powerful Bioactivities. <i>Current Organic Chemistry</i> , 2008 , 12, 326-341	1.7	177
163	The beta-peptide hairpin in solution: conformational study of a beta-hexapeptide in methanol by NMR spectroscopy and MD simulation. <i>Journal of the American Chemical Society</i> , 2001 , 123, 2393-404	16.4	174
162	Peptides: Twisting and Turning. <i>Current Medicinal Chemistry</i> , 1999 , 6, 905-925	4.3	162
161	Highly enantioselective inverse-electron-demand hetero-diels-alder reactions of alpha,beta-unsaturated aldehydes. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 3059-61	16.4	161
160	4-Hydroxy-2-pyridone alkaloids: structures and synthetic approaches. <i>Natural Product Reports</i> , 2010 , 27, 1168-85	15.1	160
159	Synthesis and Biological Evaluation of a Cyclo- β tetrapeptide as a Somatostatin Analogue. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 1223-1226	16.4	159
158	Mixed β peptides: A unique helical secondary structure in solution. Preliminary communication. <i>Helvetica Chimica Acta</i> , 1997 , 80, 2033-2038	2	151
157	Peptide folding induces high and selective affinity of a linear and small beta-peptide to the human somatostatin receptor 4. <i>Journal of Medicinal Chemistry</i> , 2001 , 44, 2460-8	8.3	147
156	Biomimetic surface modifications based on the cyanobacterial iron chelator anachelin. <i>Journal of the American Chemical Society</i> , 2006 , 128, 1064-5	16.4	134
155	Prophage-triggered membrane vesicle formation through peptidoglycan damage in <i>Bacillus subtilis</i> . <i>Nature Communications</i> , 2017 , 8, 481	17.4	122
154	Poly(ethylene glycol) adlayers immobilized to metal oxide substrates through catechol derivatives: influence of assembly conditions on formation and stability. <i>Langmuir</i> , 2010 , 26, 4018-26	4	109
153	Aerucyclamides A and B: isolation and synthesis of toxic ribosomal heterocyclic peptides from the cyanobacterium <i>Microcystis aeruginosa</i> PCC 7806. <i>Journal of Natural Products</i> , 2008 , 71, 1193-6	4.9	108
152	Isolation of aerucyclamides C and D and structure revision of microcyclamide 7806A: heterocyclic ribosomal peptides from <i>Microcystis aeruginosa</i> PCC 7806 and their antiparasite evaluation. <i>Journal of Natural Products</i> , 2008 , 71, 1891-6	4.9	97

151	Capturing Biological Activity in Natural Product Fragments by Chemical Synthesis. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3882-902	16.4	95
150	Surface Assembly of Catechol-Functionalized Poly(L-lysine)-graft-poly(ethylene glycol) Copolymer on Titanium Exploiting Combined Electrostatically Driven Self-Organization and Biomimetic Strong Adhesion. <i>Macromolecules</i> , 2010 , 43, 1050-1060	5.5	90
149	Anguinomycins and derivatives: total syntheses, modeling, and biological evaluation of the inhibition of nucleocytoplasmic transport. <i>Journal of the American Chemical Society</i> , 2010 , 132, 1432-42	16.4	88
148	Nostocarboline: isolation and synthesis of a new cholinesterase inhibitor from Nostoc 78-12A. <i>Journal of Natural Products</i> , 2005 , 68, 1793-5	4.9	87
147	Antimicrobial surfaces through natural product hybrids. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 7123-6	16.4	77
146	The fourth helical secondary structure of beta-peptides: the (P)-28-helix of a beta-hexapeptide consisting of (2R,3S)-3-amino-2-hydroxy acid residues. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 1534-7	16.4	74
145	The Cyclo- ϵ Tetrapeptide (ϵ H-Phe- ϵ H-Thr- ϵ H-Lys- ϵ H-Trp): Synthesis, NMR Structure in Methanol Solution, and Affinity for Human Somatostatin Receptors. <i>Helvetica Chimica Acta</i> , 2000 , 83, 16-33	2	73
144	A unified approach for the stereoselective total synthesis of pyridone alkaloids and their neurotogenic activity. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 4222-6	16.4	72
143	Multiple toxin production in the cyanobacterium microcystis: isolation of the toxic protease inhibitor cyanopeptolin 1020. <i>Journal of Natural Products</i> , 2010 , 73, 980-4	4.9	68
142	Total synthesis of cyrneine A. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 4071-3	16.4	65
141	Protein-resistant surfaces through mild dopamine surface functionalization. <i>Chemistry - A European Journal</i> , 2008 , 14, 10579-84	4.8	65
140	Potent algicides based on the cyanobacterial alkaloid nostocarboline. <i>Organic Letters</i> , 2006 , 8, 737-40	6.2	65
139	Occurrence of microcystin-producing cyanobacteria in Ugandan freshwater habitats. <i>Environmental Toxicology</i> , 2010 , 25, 367-80	4.2	63
138	Synthesis of Cyclo- ϵ tripeptides and Their Biological in vitro Evaluation as Antiproliferatives against the Growth of Human Cancer Cell Lines. <i>Helvetica Chimica Acta</i> , 2001 , 84, 2924-2937	2	61
137	Biosynthesis of fragin is controlled by a novel quorum sensing signal. <i>Nature Communications</i> , 2018 , 9, 1297	17.4	56
136	The cytotoxic styryl lactone goniothalamin is an inhibitor of nucleocytoplasmic transport. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 2843-6	2.9	54
135	Total synthesis, configuration, and biological evaluation of anguinomycin C. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 8707-10	16.4	54
134	ϵ Hiopeptides: Synthesis, NMR Solution Structure, CD Spectra, and Photochemistry. <i>Helvetica Chimica Acta</i> , 1999 , 82, 2067-2093	2	54

133	Faltblätter und Schleifen von Peptiden mit proteinogenen Seitenketten. <i>Angewandte Chemie</i> , 1999 , 111, 1700-1703	3.6	54
132	Temperature-Dependent NMR and CD Spectra of Peptides: On the Thermal Stability of Peptide Helices Is the Folding Process of Peptides Non-cooperative?. <i>Helvetica Chimica Acta</i> , 1999 , 82, 1-11	2	52
131	Spatial isolation favours the divergence in microcystin net production by <i>Microcystis</i> in Ugandan freshwater lakes. <i>Water Research</i> , 2010 , 44, 2803-14	12.5	51
130	The third orthogonal dynamic covalent bond. <i>Chemical Science</i> , 2016 , 7, 4720-4724	9.4	51
129	Potent and selective antiplasmodial activity of the cyanobacterial alkaloid nostocarboline and its dimers. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 4413-5	2.9	50
128	Total synthesis of the protected aglycon of fidaxomicin (tiacumicin B, lipiarmycin A3). <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 1933-6	16.4	47
127	Synthesis of withanolide A, biological evaluation of its neuritogenic properties, and studies on secretase inhibition. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 8407-11	16.4	44
126	Syntheses of taiwaniaquinone F and taiwaniaquinol A via an unusual remote C-H functionalization. <i>Organic Letters</i> , 2013 , 15, 1390-3	6.2	43
125	Natural Product Hybrids. <i>Chimia</i> , 2006 , 60, 841-845	1.3	43
124	A synthetic entry into the taiwaniaquinoids based on a biogenetic hypothesis: total synthesis of (-)-taiwaniaquinone H. <i>Chemistry - A European Journal</i> , 2010 , 16, 7692-5	4.8	41
123	Isolation and structure determination of two microcystins and sequence comparison of the McyABC adenylation domains in <i>Planktothrix</i> species. <i>Journal of Natural Products</i> , 2008 , 71, 1881-6	4.9	41
122	Antimalarial natural products of marine and freshwater origin. <i>Chemical Record</i> , 2009 , 9, 187-98	6.6	40
121	Biomimetic total synthesis and antimicrobial evaluation of anachelin H. <i>Journal of Organic Chemistry</i> , 2007 , 72, 8361-70	4.2	40
120	Evidence of horizontal gene transfer between obligate leaf nodule symbionts. <i>ISME Journal</i> , 2016 , 10, 2092-105	11.9	39
119	Catalytic enantioselective total synthesis of (+)-torrubiellone C. <i>Organic Letters</i> , 2011 , 13, 4368-70	6.2	38
118	Enantioselective total synthesis of virosaine A and bubbialidine. <i>Chemical Communications</i> , 2013 , 49, 1921-3	5.8	36
117	Total synthesis and neuritotrophic activity of farinosone C and derivatives. <i>Organic Letters</i> , 2009 , 11, 3446-9	6.2	35
116	Synthesis of Hexa- and Heptapeptides Containing Novel α,β -Amino Acids with Two Serine or Two Cysteine Side Chains [CD- and NMR-Spectroscopic Evidence for 314-Helical Secondary Structures in Water. <i>Helvetica Chimica Acta</i> , 2000 , 83, 2115-2140	2	35

115	Total synthesis of anachelin H. <i>Organic Letters</i> , 2004 , 6, 4707-10	6.2	32
114	Total synthesis of gelsemiol. <i>Chemistry - A European Journal</i> , 2013 , 19, 2589-91	4.8	31
113	Isolation and Total Synthesis of Kirkamide, an Aminocyclitol from an Obligate Leaf Nodule Symbiont. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 7968-70	16.4	31
112	Total Synthesis of the Glycosylated Macrolide Antibiotic Fidaxomicin. <i>Organic Letters</i> , 2015 , 17, 3514-7	6.2	30
111	Preparation and NMR Structure of the Cyclo-Tripeptide [β -Hglu] ₃ in Aqueous Solution: A New Class of Enterobactin-Type C3-Symmetrical Ligands?, Preliminary Communication. <i>Helvetica Chimica Acta</i> , 1999 , 82, 957-962	2	30
110	Enantioselective total syntheses and absolute configuration of JBIR-02 and Mer-A2026B. <i>Organic Letters</i> , 2013 , 15, 670-3	6.2	29
109	Antimalarial and antitubercular nostocarboline and eudistomin derivatives: synthesis, in vitro and in vivo biological evaluation. <i>Bioorganic and Medicinal Chemistry</i> , 2010 , 18, 1464-76	3.4	29
108	Ein einheitlicher Ansatz zur stereoselektiven Totalsynthese von Pyridonalkaloiden und deren neuritogene Aktivität. <i>Angewandte Chemie</i> , 2011 , 123, 4308-4312	3.6	28
107	The cyanobacterial alkaloid nostocarboline: an inhibitor of acetylcholinesterase and trypsin. <i>Journal of Applied Phycology</i> , 2009 , 21, 103-110	3.2	27
106	A biomimetic route to the peptide alkaloid anachelin. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 3327-9	16.4	27
105	Total Synthesis of Tiacumicin A. Total Synthesis, Relay Synthesis, and Degradation Studies of Fidaxomicin (Tiacumicin B, Lipiarmycin A3). <i>Journal of Organic Chemistry</i> , 2018 , 83, 7180-7205	4.2	26
104	Balgacyclamides, antiplasmodial heterocyclic peptides from <i>Microcystis aeruginosa</i> EAWAG 251. <i>Journal of Natural Products</i> , 2014 , 77, 557-62	4.9	26
103	The toxicity and enzyme activity of a chlorine and sulfate containing aeruginosin isolated from a non-microcystin-producing strain. <i>Harmful Algae</i> , 2014 , 39, 154-160	5.3	26
102	Leaf nodule symbiosis: function and transmission of obligate bacterial endophytes. <i>Current Opinion in Plant Biology</i> , 2018 , 44, 23-31	9.9	25
101	Securinega Alkaloids: Complex Structures, Potent Bioactivities, and Efficient Total Syntheses. <i>Asian Journal of Organic Chemistry</i> , 2017 , 6, 1146-1159	3	24
100	Pyrrrolizidines for direct air capture and CO conversion. <i>Chemical Communications</i> , 2019 , 55, 949-952	5.8	24
99	Withanolide A: synthesis and structural requirements for neurite outgrowth. <i>Chemical Science</i> , 2013 , 4, 2851	9.4	24
98	Total synthesis of complex cyanobacterial alkaloids without using protecting groups. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 5656-8	16.4	24

97	Cyanobacterial Natural Products for the Inhibition of Biofilm Formation and Biofouling. <i>Chimia</i> , 2007 , 61, 373-377	1.3	24
96	Truncated militarinone fragments identified by total chemical synthesis induce neurite outgrowth. <i>MedChemComm</i> , 2013 , 4, 135-139	5	23
95	On-cell catalysis by surface engineering of live cells with an artificial metalloenzyme. <i>Communications Chemistry</i> , 2018 , 1,	6.3	23
94	Collective Syntheses of Icetexane Natural Products Based on Biogenetic Hypotheses. <i>Chemistry - A European Journal</i> , 2017 , 23, 120-127	4.8	22
93	Total Synthesis of the Sesquiterpenoid Periconianone A Based on a Postulated Biogenesis. <i>Journal of the American Chemical Society</i> , 2017 , 139, 16096-16099	16.4	22
92	Bioinspired, releasable quorum sensing modulators. <i>Chemical Communications</i> , 2013 , 49, 155-7	5.8	21
91	Surface modifications based on the cyanobacterial siderophore anachelin: from structure to functional biomaterials design. <i>BioMetals</i> , 2009 , 22, 595-604	3.4	20
90	Synthetisch gewonnene Naturstofffragmente in der Wirkstoffentwicklung. <i>Angewandte Chemie</i> , 2016 , 128, 3948-3970	3.6	20
89	Formal Total Synthesis of (-)-Jiadifenolide and Synthetic Studies toward seco-Prezizaane-Type Sesquiterpenes. <i>Journal of Organic Chemistry</i> , 2016 , 81, 11017-11034	4.2	19
88	Comparative effects of nodularin and microcystin-LR in zebrafish: 2. Uptake and molecular effects in eleuthero-embryos and adult liver with focus on endoplasmic reticulum stress. <i>Aquatic Toxicology</i> , 2016 , 171, 77-87	5.1	19
87	Preparation of Antimalarial Endoperoxides by a Formal [2 + 2 + 2] Cycloaddition. <i>Organic Letters</i> , 2015 , 17, 5420-3	6.2	18
86	Synthesis and evaluation of the bis-nor-anachelin chromophore as potential cyanobacterial ligand. <i>Journal of Organic Chemistry</i> , 2005 , 70, 6258-64	4.2	18
85	Investigating the Toxicity of the Aeruginosin Chlorosulfopeptides by Chemical Synthesis. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9427-31	16.4	18
84	Totalsynthese von Cyrnein A. <i>Angewandte Chemie</i> , 2012 , 124, 4147-4149	3.6	17
83	Total Synthesis and Biological Evaluation of the Glycosylated Macrocyclic Antibiotic Mangrolide A. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 11020-11024	16.4	16
82	Investigating Biogenetic Hypotheses of the Securinega Alkaloids: Enantioselective Total Syntheses of Secu'amamine E/ent-Virosine A and Bubbialine. <i>Organic Letters</i> , 2017 , 19, 548-551	6.2	15
81	Functionally Optimized Neuritogenic Farinosone C Analogs: SAR-Study and Investigations on Their Mode of Action. <i>ACS Medicinal Chemistry Letters</i> , 2014 , 5, 172-7	4.3	15
80	Totalsynthese des geschützten Aglycons von Fidaxomicin (Tiacumicin B, Lipiarmycin A3). <i>Angewandte Chemie</i> , 2015 , 127, 1953-1956	3.6	15

79	Dimers of nostocarboline with potent antibacterial activity. <i>Chemotherapy</i> , 2010 , 56, 318-24	3.2	15
78	Antimikrobielle Oberflächen durch Naturstoffhybride. <i>Angewandte Chemie</i> , 2008 , 120, 7232-7235	3.6	15
77	Telomerase inhibitors from cyanobacteria: isolation and synthesis of sulfoquinovosyl diacylglycerols from <i>Microcystis aeruginosa</i> PCC 7806. <i>Chemistry - A European Journal</i> , 2013 , 19, 4596-601	4.8	14
76	Controlling protein transport by small molecules. <i>Current Drug Targets</i> , 2011 , 12, 1574-80	3	14
75	Synthese von Withanolid A, Untersuchung der neuritogenen Eigenschaften und Studien zur Sekretase-Inhibierung. <i>Angewandte Chemie</i> , 2011 , 123, 8557-8561	3.6	14
74	Totalsynthese, Konfiguration und biologische Evaluierung von Anguinomycin C. <i>Angewandte Chemie</i> , 2007 , 119, 8862-8865	3.6	14
73	Synthesis of maculalactone A and derivatives for environmental fate tracking studies. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 199-206	3.9	13
72	Total Synthesis and Structural Revision of Aeruginosin KT608A. <i>Organic Letters</i> , 2017 , 19, 3915-3918	6.2	13
71	Stable beta turns of tripeptides in water through cation-pi interactions. <i>ChemBioChem</i> , 2008 , 9, 2398-401	3.8	13
70	Mechanistic studies on the tyrosinase-catalyzed formation of the anachelin chromophore. <i>ChemBioChem</i> , 2005 , 6, 913-9	3.8	13
69	3-Bromotetrazine: labelling of macromolecules monosubstituted bifunctional -tetrazines. <i>Chemical Science</i> , 2020 , 11, 3042-3047	9.4	13
68	Copy, edit, and paste: natural product approaches to biomaterials and neuroengineering. <i>Accounts of Chemical Research</i> , 2015 , 48, 731-9	24.3	12
67	Directed biosynthesis of phytotoxic alkaloids in the cyanobacterium <i>Nostoc</i> 78-12A. <i>ChemBioChem</i> , 2009 , 10, 889-95	3.8	12
66	Reduce to the Maximum: Truncated Natural Products as Powerful Modulators of Biological Processes. <i>Synlett</i> , 2012 , 2012, 163-170	2.2	12
65	Green Algae as a Drug Delivery System for the Controlled Release of Antibiotics. <i>Chemistry - A European Journal</i> , 2020 , 26, 16644-16648	4.8	12
64	Total Synthesis and Structural Revision of Mangrolide D. <i>Organic Letters</i> , 2019 , 21, 3456-3459	6.2	11
63	Microviridin 1777: A Toxic Chymotrypsin Inhibitor Discovered by a Metabologenomic Approach. <i>Journal of Natural Products</i> , 2020 , 83, 438-446	4.9	11
62	Caged retinoids as photoinducible activators: implications for cell differentiation and neurite outgrowth. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 3314-21	3.9	11

61	Nitrocatechols as Tractable Surface Release Systems. <i>ChemPlusChem</i> , 2012 , 77, 1071-1074	2.8	11
60	Direct arginine modification in native peptides and application to chemical probe development. <i>ACS Medicinal Chemistry Letters</i> , 2014 , 5, 1290-5	4.3	10
59	Schutzgruppenfreie Totalsynthese komplexer cyanobakterieller Alkaloide. <i>Angewandte Chemie</i> , 2007 , 119, 5754-5756	3.6	10
58	Biosynthesis and Structure-Activity Relationship Investigations of the Diazeniumdiolate Antifungal Agent Fragin. <i>ChemBioChem</i> , 2020 , 21, 1587-1592	3.8	9
57	Total synthesis of the marine alkaloid palau'amine. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 2972-4	16.4	9
56	Aza-Annulation Strategies in Alkaloid Total Synthesis. <i>Synthesis</i> , 2008 , 2008, 331-351	2.9	9
55	Eine biomimetische Syntheseroute zum Peptidalkaloid Anachelin. <i>Angewandte Chemie</i> , 2004 , 116, 3389-3391	3.9	9
54	The Peptide Alkaloid Anachelin: NMR Spectroscopic Evidence for β -Turn Formation in Aqueous Solution. <i>Chimia</i> , 2004 , 58, 212-214	1.3	9
53	Biological evaluation of pyridone alkaloids on the endocannabinoid system. <i>Bioorganic and Medicinal Chemistry</i> , 2017 , 25, 6102-6114	3.4	8
52	Total Synthesis and Biological Evaluation of the Glycosylated Macrocyclic Antibiotic Mangrolide A. <i>Angewandte Chemie</i> , 2018 , 130, 11186-11190	3.6	8
51	Chemical interference of biological systems with natural products. <i>Chimia</i> , 2011 , 65, 835-8	1.3	8
50	Synthesis and Biological Evaluation of the Novel Growth Inhibitor Streptol Glucoside, Isolated from an Obligate Plant Symbiont. <i>Chemistry - A European Journal</i> , 2019 , 25, 1722-1726	4.8	8
49	Chemistry and Biology of the Clinically Used Macrolactone Antibiotic Fidaxomicin. <i>Helvetica Chimica Acta</i> , 2020 , 103, e2000038	2	7
48	Bioinspired surfaces against bacterial infections. <i>Chimia</i> , 2013 , 67, 275-8	1.3	7
47	Preparation of Fluorescent Microcystin Derivatives by Direct Arginine Labelling and Their Biological Evaluation. <i>ChemBioChem</i> , 2015 , 16, 1657-62	3.8	6
46	Fluorescent labeling agents for quorum-sensing receptors (FLAQS) in live cells. <i>Chemistry - A European Journal</i> , 2013 , 19, 9766-70	4.8	6
45	Nucleophilic Attack on Nitrogen in Tetrazines by Silyl-Enol Ethers. <i>Organic Letters</i> , 2021 , 23, 2426-2430	6.2	6
44	Design and Synthesis of Metabolically Stable tRNA Synthetase Inhibitors Derived from Cladosporin. <i>ChemBioChem</i> , 2019 , 20, 644-649	3.8	6

43	Synthesis of Two Key Fragments of the Complex Polyhalogenated Marine Meroterpenoid Azamerone. <i>Organic Letters</i> , 2019 , 21, 1144-1147	6.2	5
42	The Furan Shuffling Hypothesis: A Biogenetic Proposal for Eremophilane Sesquiterpenoids. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 7004-7007	16.4	5
41	Preparation of Indolenines via Nucleophilic Aromatic Substitution. <i>Organic Letters</i> , 2019 , 21, 2560-2564	6.2	5
40	Profiling withanolide A for therapeutic targets in neurodegenerative diseases. <i>Bioorganic and Medicinal Chemistry</i> , 2019 , 27, 2508-2520	3.4	5
39	Recent Advances in Mode of Action and Biosynthesis Studies of the Clinically Used Antibiotic Fidaxomicin. <i>Chimia</i> , 2020 , 74, 270-273	1.3	5
38	Allelopathic Activity of the Iron Chelator Anachelin: A Molecular Hybrid with a Dual Mode of Action. <i>Helvetica Chimica Acta</i> , 2016 , 99, 760-773	2	5
37	Isolation and Total Synthesis of Kirkamide, an Aminocyclitol from an Obligate Leaf Nodule Symbiont. <i>Angewandte Chemie</i> , 2015 , 127, 8079-8081	3.6	5
36	Semisynthetic Analogs of the Antibiotic Fidaxomicin-Design, Synthesis, and Biological Evaluation. <i>ACS Medicinal Chemistry Letters</i> , 2020 , 11, 2414-2420	4.3	5
35	Antibiotic Algae by Chemical Surface Engineering. <i>ChemBioChem</i> , 2018 , 19, 439-443	3.8	5
34	Catalytic Enantioselective Total Synthesis of (R)-Pyridovericin. <i>Synthesis</i> , 2014 , 46, 864-870	2.9	4
33	Out in the green: biologically active metabolites produced by cyanobacteria. <i>Chimia</i> , 2011 , 65, 416-9	1.3	4
32	Metal-Free Regioselective Chloroazidation of Internal Alkynes. <i>Chemistry - A European Journal</i> , 2019 , 25, 981-984	4.8	4
31	Concise Total Synthesis of Peyssonnoside A. <i>Journal of the American Chemical Society</i> , 2021 , 143, 14083-14088	16.8	4
30	Genetically encoded betaxanthin-based small-molecular fluorescent reporter for mammalian cells. <i>Nucleic Acids Research</i> , 2020 , 48, e67	20.1	3
29	Neuritogenic surfaces using natural product analogs. <i>Advanced Healthcare Materials</i> , 2014 , 3, 1415-9	10.1	3
28	Direct Preparation of Pyrrolizidines Using Imines and Isonitriles. <i>Synthesis</i> , 2015 , 47, 3153-3160	2.9	3
27	Synthetic Studies on the Sporolides: Exploration of the Eneidyne Route. <i>Synthesis</i> , 2010 , 2010, 631-642	2.9	3
26	Bioorganic and bioinorganic chemistry. <i>Chimia</i> , 2010 , 64, 846-54	1.3	3

25	Thiol- and Disulfide-Containing Vancomycin Derivatives Against Bacterial Resistance and Biofilm Formation.. <i>ACS Medicinal Chemistry Letters</i> , 2021 , 12, 1898-1904	4.3	3
24	Synthesis and Biological Evaluation of Iodinated Fidaxomicin Antibiotics. <i>Helvetica Chimica Acta</i> , 2020 , 103, e2000130	2	3
23	Syntheses and biological investigations of kirkamide and oseltamivir hybrid derivatives. <i>Tetrahedron</i> , 2020 , 76, 131386	2.4	3
22	Cross-Coupling Reactions of Monosubstituted Tetrazines. <i>Organic Letters</i> , 2021 , 23, 5689-5692	6.2	3
21	Ein neues Signalmolekül in Burkholderia cenocepacia. <i>BioSpektrum</i> , 2019 , 25, 368-371	0.1	2
20	Design of a high-throughput device for screening surface modification protocols. <i>Progress in Organic Coatings</i> , 2010 , 67, 20-27	4.8	2
19	Stereoselective Total Synthesis of (-)-Galantinic Acid. <i>Synlett</i> , 2006 , 2006, 1580-1582	2.2	2
18	Design, Synthesis, and Biological Evaluation of Light-Activated Antibiotics. <i>ACS Infectious Diseases</i> , 2021 , 7, 681-692	5.5	2
17	Boron Trifluoride-Mediated Cycloaddition of 3-Bromotetrazine and Silyl Enol Ethers: Synthesis of 3-Bromo-pyridazines. <i>Journal of Organic Chemistry</i> , 2021 , 86, 12008-12023	4.2	2
16	Mitigation of virulence by signal inactivation. <i>Science Advances</i> , 2021 , 7, eabg2293	14.3	2
15	Total Synthesis of the Polyoxygenated Sesquiterpenes Guignarderemophilanes C and D. <i>Helvetica Chimica Acta</i> , 2018 , 101, e1800011	2	1
14	Interfacing Functional Systems. <i>Chimia</i> , 2016 , 70, 418-23	1.3	1
13	Strategies for the Asymmetric Total Synthesis of Natural Products: Chiral Pool versus Chiral Catalysts 2013 , 317-322		1
12	Totalsynthese des marinen Alkaloids Palauamin. <i>Angewandte Chemie</i> , 2010 , 122, 3034-3036	3.6	1
11	A Volatile Signal Controls Virulence in the Plant Pathogen <i>Pseudomonas syringae</i> pv. <i>syringae</i> and a Strategy for Infection Control in Organic Farming		1
10	Synthesis of Colibactin Pyrrolidono[3,4]-pyridones via Regioselective C(sp)-H Activation. <i>Organic Letters</i> , 2020 , 22, 6858-6862	6.2	1
9	Novel fidaxomicin antibiotics through site-selective catalysis. <i>Communications Chemistry</i> , 2021 , 4,	6.3	1
8	Synthese von Aeruginosin-Chlorsulfopeptiden und Untersuchung ihrer Toxizität. <i>Angewandte Chemie</i> , 2016 , 128, 9575-9580	3.6	1

7	'Active Surfaces' as Possible Functional Systems in Detection and Chemical (Bio) Reactivity. <i>Chimia</i> , 2016 , 70, 402-12	1.3	1
6	Synthesis and catalysis. <i>Chimia</i> , 2010 , 64, 859-66	1.3	0
5	Development of a cell surface display system in <i>Chlamydomonas reinhardtii</i> . <i>Algal Research</i> , 2022 , 61, 102570	5	0
4	Leaf nodule endosymbiotic Burkholderia confer targeted allelopathy to their Psychotria hosts. <i>Scientific Reports</i> , 2021 , 11, 22465	4.9	0
3	Biohybrid microswimmers against bacterial infections. <i>Acta Biomaterialia</i> , 2021 , 136, 99-110	10.8	0
2	The Furan Shuffling Hypothesis: A Biogenetic Proposal for Eremophilane Sesquiterpenoids. <i>Angewandte Chemie</i> , 2019 , 131, 7078-7081	3.6	
1	Mapping Out Biogenetic Hypotheses by Chemical Synthesis. <i>Chimia</i> , 2017 , 71, 841-844	1.3	