Daniel HÃ¤ussinger

List of Publications by Year
in descending order

125 papers	4,081 citations	101543 36 h-index	138484 58 g-index
139 all docs	139 docs citations	139 times ranked	5109 citing authors

#	Article	IF	Citations
1	Synthetic cascades are enabled by combining biocatalysts with artificial metalloenzymes. Nature Chemistry, 2013, 5, 93-99.	13.6	314
2	Cationic Nickel(II) Complexes of Chelating N-Heterocyclic Carbenes. Organometallics, 1999, 18, 4584-4590.	2.3	145
3	DOTA-M8: An Extremely Rigid, High-Affinity Lanthanide Chelating Tag for PCS NMR Spectroscopy. Journal of the American Chemical Society, 2009, 131, 14761-14767.	13.7	141
4	Proteolytic E-cadherin activation followed by solution NMR and X-ray crystallography. EMBO Journal, 2004, 23, 1699-1708.	7.8	138
5	Dynamic binding mode of a Synaptotagmin-1â€“SNARE complex in solution. Nature Structural and Molecular Biology, 2015, 22, 555-564.	8.2	129
6	An octadentate bifunctional chelating agent for the development of stable zirconium-89 based molecular imaging probes. Chemical Communications, 2014, 50, 11523-11525.	4.1	120
7	Stereoselective Areneâ€Forming Aldol Condensation: Synthesis of Configurationally Stable Oligoâ€1,2â€naphthylenes. Angewandte Chemie - International Edition, 2016, 55, 2920-2923.	13.8	98
8	Cethrene: A Helically Chiral Biradicaloid Isomer of Heptazethrene. Angewandte Chemie - International Edition, 2016, 55, 1183-1186.	13.8	94
9	Manganese(i) complexes with metal-to-ligand charge transfer luminescence and photoreactivity. Nature Chemistry, 2021, 13, 956-962.	13.6	91
10	Calcium-dependent Homoassociation of E-cadherin by NMR Spectroscopy: Changes in Mobility, Conformation and Mapping of Contact Regions. Journal of Molecular Biology, 2002, 324, 823-839.	4.2	90
11	Recognition of RANTES by Extracellular Parts of the CCR5 Receptor. Journal of Molecular Biology, 2007, 365, 1063-1075.	4.2	90
12	Improving the Catalytic Performance of an Artificial Metalloenzyme by Computational Design. Journal of the American Chemical Society, 2015, 137, 10414-10419.	13.7	87
13	Dimethylcethrene: A Chiroptical Diradicaloid Photoswitch. Journal of the American Chemical Society, 2018, 140, 10839-10847.	13.7	83
14	In-Cell Protein Structures from 2D NMR Experiments. Journal of Physical Chemistry Letters, 2016, 7, 2821-2825.	4.6	82
15	A novel self-lipid antigen targets human T cells against CD1c+ leukemias. Journal of Experimental Medicine, 2014, 211, 1363-1377.	8.5	80
16	Transition metal complexes with sulfur ligands. Inorganica Chimica Acta, 2000, 300-302, 829-836.	2.4	76
17	Water-Soluble Co(III) Complexes of Substituted Phenanthrolines with Cell Selective Anticancer Activity. Inorganic Chemistry, 2013, 52, 12535-12544.	4.0	69
18	[Ru(HNO)(â€²pybuS4â€²)], the First HNO Complex Resulting from Hydride Addition to a NO Complex (â€²pybuS4â€²2â€™=2,6-Bis(2-mercapto- 3,5-di-tert-butylphenylthio)dimethylpyridine(2â€™)). Chemistry - A European Journal, 2001, 7, 2099-2103.	3.3	66

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19	Transition Metal Complexes with Sulfur Ligands. 117.1A Reaction Cycle for Nickel Mediated Thioester Formation from Alkyl, CO, and Thiolate Groups Modeling the Acetyl-Coenzyme A Synthase Function of CO Dehydrogenase. Journal of the American Chemical Society, 1996, 118, 5368-5374.	13.7	63
20	Solution Behavior of Double-Hydrophilic Block Copolymers in Dilute Aqueous Solution. Macromolecules, 2012, 45, 4772-4777.	4.8	62
21	Charged acrylamide copolymer gels as media for weak alignment. Journal of Biomolecular NMR, 2002, 24, 351-356.	2.8	60
22	Atroposelective synthesis of tetra-ortho-substituted biaryls by catalyst-controlled non-canonical polyketide cyclizations. Nature Catalysis, 2019, 2, 925-930.	34.4	58
23	Tuning the photophysical properties of cationic iridium(<scp>iii</scp>) complexes containing cyclometallated 1-(2,4-difluorophenyl)-1H-pyrazole through functionalized 2,2â€²-bipyridineligands: blue but not blue enough. Dalton Transactions, 2013, 42, 1073-1087.	3.3	54
24	Structure determination of high-energy states in a dynamic protein ensemble. Nature, 2022, 603, 528-535.	27.8	51
25	Structureâ€Selective Catalytic Alkylation of DNA and RNA. Angewandte Chemie - International Edition, 2012, 51, 12000-12004.	13.8	48
26	Breaking the Limits in Analyzing Carbohydrate Recognition by NMR Spectroscopy: Resolving Branchâ€Selective Interaction of a Tetraâ€Antennary Nâ€Glycan with Lectins. Angewandte Chemie - International Edition, 2017, 56, 14987-14991.	13.8	47
27	Conformational Properties of a Peptidic Catalyst: Insights from NMR Spectroscopic Studies. Journal of the American Chemical Society, 2018, 140, 10829-10838.	13.7	46
28	Stereoselektive arenbildende Aldolkondensation: Synthese konfigurativ stabiler Oligoâ€1,2â€naphthylene. Angewandte Chemie, 2016, 128, 2973-2976.	2.0	45
29	Design and applications of lanthanide chelating tags for pseudocontact shift NMR spectroscopy with biomacromolecules. Progress in Nuclear Magnetic Resonance Spectroscopy, 2019, 114-115, 284-312.	7.5	45
30	Pyrene-Decoration of a Chromium(0) Tris(diisocyanide) Enhances Excited State Delocalization: A Strategy to Improve the Photoluminescence of 3d⁶ Metal Complexes. Journal of the American Chemical Society, 2021, 143, 15800-15811.	13.7	44
31	Mechanical Stabilization of Helical Chirality in a Macrocyclic Oligothiophene. Journal of the American Chemical Society, 2019, 141, 2104-2110.	13.7	41
32	Analysis of Heterophilic and Homophilic Interactions of Cadherins Using the c-Jun/c-Fos Dimerization Domains. Journal of Biological Chemistry, 2002, 277, 19455-19460.	3.4	39
33	Diastereoselective and Highly Enantioselective Henry Reactions using C₁â€Symmetrical Copper(II) Complexes. Advanced Synthesis and Catalysis, 2011, 353, 1797-1806.	4.3	37
34	Spin-Delocalization in a Helical Open-Shell Hydrocarbon. Journal of Organic Chemistry, 2016, 81, 12303-12317.	3.2	37
35	High-Accuracy Residual1HNâ^'13C and1HNâ^'1HNDipolar Couplings in Perdeuterated Proteins. Journal of the American Chemical Society, 2003, 125, 44-45.	13.7	36
36	The effects of introducing sterically demanding aryl substituents in [Cu(N^N)(P^P)]⁺complexes. Dalton Transactions, 2017, 46, 6379-6391.	3.3	36

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37	New Lanthanide Chelating Tags for PCS NMR Spectroscopy with Reduction Stable, Rigid Linkers for Fast and Irreversible Conjugation to Proteins. Bioconjugate Chemistry, 2018, 29, 3344-3351.	3.6	36
38	Catalyst control over sixfold stereogenicity. Nature Catalysis, 2021, 4, 457-462.	34.4	36
39	Anti-protozoal activity of aporphine and protoberberine alkaloids from Annickia kummeriae (Engl.) Tj ETQq1 1 0.784314 rgBT /Overlock 48.	3.7	35
40	The toxicity and enzyme activity of a chlorine and sulfate containing aeruginosin isolated from a non-microcystin-producing Planktothrix strain. Harmful Algae, 2014, 39, 154-160.	4.8	35
41	Symmetry as a new element to control molecular switches. Organic and Biomolecular Chemistry, 2014, 12, 3371.	2.8	32
42	Upregulation of an Artificial Zymogen by Proteolysis. Angewandte Chemie - International Edition, 2016, 55, 11587-11590.	13.8	29
43	Pseudocontact Shifts in Biomolecular NMR Spectroscopy. Chemical Reviews, 2022, 122, 9422-9467.	47.7	29
44	Electrophilic addition reactions of the Lewis acids B(C6F5)2R [Râ€…=â€…C6F5, Ph, H or Cl] with the metallocene hydrides [M(Î·-C5H5)2H2] (Mâ€…=â€…Mo or W), [Re(Î·-C5H5)2H] and [Ta(Î·-C5H5)2H3]. Dalton Transactions RSC, 2000, , 813-820.	2.3	28
45	The Structure of the Cys-rich Terminal Domain of Hydra Minicollagen, Which Is Involved in Disulfide Networks of the Nematocyst Wall. Journal of Biological Chemistry, 2004, 279, 30395-30401.	3.4	28
46	Insights into the Low Adhesive Capacity of Human T-cadherin from the NMR Structure of Its N-terminal Extracellular Domain. Journal of Biological Chemistry, 2008, 283, 23485-23495.	3.4	28
47	Atropisomerization of di-para-substituted propyl-bridged biphenyl cyclophanes. Organic and Biomolecular Chemistry, 2013, 11, 110-118.	2.8	27
48	Substitution Reactions on CaI2: Synthesis of Mixed Metal Lithium-Calcium-Phenolates, and Cluster Transformation as a Function of Solvent. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2006, 632, 2295-2298.	1.2	26
49	Chiral Boronâ€Bridged Bisoxazoline (Borabox) Ligands: Structures and Reactivities of Pd and Cu Complexes. Chemistry - A European Journal, 2008, 14, 8530-8539.	3.3	26
50	Towards catenanes using Ï€-stacking interactions and their influence on the spin-state of a bis(2,2â€²:6â€²,2â€³-terpyridine)iron(ii) domain. Dalton Transactions, 2010, 39, 10739.	3.3	26
51	Bidentate Lewis Acid Catalyzed Domino Dielsâ€“Alder Reaction of Phthalazine for the Synthesis of Bridged Oligocyclic Tetrahydronaphthalenes. Organic Letters, 2016, 18, 1330-1333.	4.6	26
52	Model-free extraction of spin label position distributions from pseudocontact shift data. Chemical Science, 2017, 8, 2751-2757.	7.4	26
53	Enantiomeric Separation of Semiconducting Single-Walled Carbon Nanotubes by Acid Cleavable Chiral Polyfluorene. ACS Nano, 2021, 15, 4699-4709.	14.6	25
54	Racemisation dynamics of torsion angle restricted biphenyl push-pull cyclophanes. Organic and Biomolecular Chemistry, 2011, 9, 86-91.	2.8	24

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55	Inducing Axial Chirality in a â€œGelÃnderâ€•Oligomer by Length Mismatch of the Oligomer Strands. Angewandte Chemie - International Edition, 2014, 53, 14587-14591.	13.8	24
56	Photoinduced Rearrangements of 3,3â€²-Bis(arylbenzofurans). Organic Letters, 2011, 13, 474-477.	4.6	21
57	Gd(III) complexes for electronâ€“electron dipolar spectroscopy: Effects of deuteration, pH and zero field splitting. Journal of Magnetic Resonance, 2015, 259, 163-173.	2.1	21
58	Artificial metalloenzymes for the diastereoselective reduction of NAD⁺ to NAD²H. Organic and Biomolecular Chemistry, 2015, 13, 357-360.	2.8	21
59	Triazolo-Peptidomimetics: Novel Radiolabeled Minigastrin Analogs for Improved Tumor Targeting. Journal of Medicinal Chemistry, 2020, 63, 4484-4495.	6.4	20
60	Key aspects to yield low dispersity of PEO-b-PCL diblock copolymers and their mesoscale self-assembly. European Polymer Journal, 2016, 83, 300-310.	5.4	19
61	Conformationally locked lanthanide chelating tags for convenient pseudocontact shift protein nuclear magnetic resonance spectroscopy. Journal of Biomolecular NMR, 2018, 72, 29-38.	2.8	19
62	Localization of ligands within human carbonic anhydrase II using ¹⁹F pseudocontact shift analysis. Chemical Science, 2019, 10, 5064-5072.	7.4	18
63	Bidentate Lewis Acid Catalyzed Inverse-Electron-Demand Diels-Alder Reaction for the Selective Functionalization of Aldehydes. Synthesis, 2012, 44, 2195-2199.	2.3	17
64	Chiral macrocyclic terpyridine complexes. Chemical Science, 2018, 9, 3837-3843.	7.4	17
65	Highly Stable Silver(I) Complexes with Cyclen-Based Ligands Bearing Sulfide Arms: A Step Toward Silver-111 Labeled Radiopharmaceuticals. Inorganic Chemistry, 2020, 59, 10907-10919.	4.0	17
66	Interaction between pivaloylcarnitine and l-carnitine transport into L6 cells overexpressing hOCTN2. Chemico-Biological Interactions, 2009, 180, 472-477.	4.0	16
67	Hydrogen-Bond and Solvent Dynamics in Transition Metal Complexes: A Combined Simulation and NMR-Investigation. Journal of Physical Chemistry B, 2012, 116, 14406-14415.	2.6	16
68	Deltoid versus Rhomboid: Controlling the Shape of Bis-ferrocene Macrocycles by the Bulkiness of the Substituents. Organometallics, 2017, 36, 858-866.	2.3	16
69	Structure of formylglycine-generating enzyme in complex with copper and a substrate reveals an acidic pocket for binding and activation of molecular oxygen. Chemical Science, 2019, 10, 7049-7058.	7.4	16
70	Iron in a Cage: Fixation of a Fe(II)tpy₂ Complex by Fourfold Interlinking. Angewandte Chemie - International Edition, 2020, 59, 15947-15952.	13.8	16
71	Determination of a high-precision NMR structure of the minicollagen cysteine rich domain fromHydraand characterization of its disulfide bond formation. FEBS Letters, 2004, 569, 112-116.	2.8	15
72	Porphyrin-DNA: A Supramolecular Scaffold for Functional Molecules on the Nanometre Scale. Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 1533-1538.	1.1	14

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73	High-Resolution Structural Characterization of a Heterogeneous Biocatalyst Using Solid-State NMR. Journal of Physical Chemistry C, 2016, 120, 28717-28726.	3.1	14
74	Tuning Helical Chirality in Polycyclic Ladder Systems. Chemistry - A European Journal, 2015, 21, 18156-18167.	3.3	13
75	A Sterically Overcrowded, Isopropylâ€Substituted, Lanthanideâ€Chelating Tag for Protein Pseudocontact Shift NMR Spectroscopy: Synthesis of its Macrocyclic Scaffold and Benchmarking on Ubiquitinâ€…S57â€‰C and hCAâ€…II S166â€‰C. Chemistry - A European Journal, 2019, 25, 11910-11917.	3.3	13
76	Molecular dynamic staircases: all-carbon axial chiral â€œGelÃnderâ€•structures. Chemical Science, 2018, 9, 5758-5766.	7.4	12
77	P4T-DOTA â€“ a lanthanide chelating tag combining a sterically highly overcrowded backbone with a reductively stable linker. Chemical Communications, 2019, 55, 10543-10546.	4.1	12
78	Synthesis of chiral nine and twelve-membered cyclic polyamines from natural building blocks. Chemical Communications, 2019, 55, 4715-4718.	4.1	12
79	Activation of Primary and Secondary Benzylic and Tertiary Alkyl (sp3)C-F Bonds Inside a Self-Assembled Molecular Container. Frontiers in Chemistry, 2018, 6, 639.	3.6	12
80	[Cu(POP)(N^S)][PF₆] and [Cu(xantphos)(N^S)][PF₆] compounds with 2-(thiophen-2-yl)pyridines. RSC Advances, 2019, 9, 13646-13657.	3.6	11
81	Intrinsic anisotropy parameters of a series of lanthanoid complexes deliver new insights into the structure-magnetism relationship. CheM, 2021, 7, 3144-3156.	11.7	11
82	A novel, rationally designed lanthanoid chelating tag delivers large paramagnetic structural restraints for biomolecular NMR. Chemical Communications, 2020, 56, 12861-12864.	4.1	11
83	An Artificial Metalloenzyme Based on a Copper Heteroscorpionate Enables sp³ Câ€“H Functionalization via Intramolecular Carbene Insertion. Journal of the American Chemical Society, 2022, 144, 11676-11684.	13.7	11
84	Nonacethrene Unchained: A Cascade to Chiral Contorted Conjugated Hydrocarbon with Two sp³-Defects. Jacs Au, 2022, 2, 1616-1626.	7.9	11
85	Metallohosts with a Heart of Carbon. Journal of the American Chemical Society, 2011, 133, 10776-10779.	13.7	10
86	Molecular Daisy Chains: Synthesis and Aggregation Studies of an Amphiphilic Molecular Rod. Chemistry - A European Journal, 2013, 19, 2089-2101.	3.3	10
87	A Molecular Turnstile as an Eâ€Fieldâ€Triggered Singleâ€Molecule Switch: Concept and Synthesis. European Journal of Organic Chemistry, 2017, 2017, 3165-3178.	2.4	10
88	Pushing the mass limit for intact launch and photoionization of large neutral biopolymers. Communications Chemistry, 2018, 1, .	4.5	10
89	Probing the dynamic stalk region of the ribosome using solution NMR. Scientific Reports, 2019, 9, 13528.	3.3	10
90	Divergent Synthesis of Bioactive Dithiodiketopiperazine Natural Products Based on a Double C(sp³)â€“H Activation Strategy. Chemistry - A European Journal, 2020, 26, 15298-15312.	3.3	10

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91	Tetranucleotides as a scaffold for diporphyrin arrays. Pure and Applied Chemistry, 2006, 78, 2003-2014.	1.9	9
92	Through the Maze: Crossâ€Coupling Pathways to a Helical Hexaphenyl â€œGelÃnderâ€•Molecule. European Journal of Organic Chemistry, 2015, 2015, 786-801.	2.4	9
93	Synthesis of trinorbornane. Chemical Communications, 2017, 53, 11399-11402.	4.1	9
94	Aldol Reactions in Water Using a Î²-Cyclodextrin-Binding Proline Derivative. Synlett, 2007, 2007, 2298-2300.	1.8	8
95	Catalytic carbene transfer allows the direct customization of cyclic purine dinucleotides. Chemical Communications, 2014, 50, 8499.	4.1	8
96	Assembly of [2]Rotaxanes in Water. European Journal of Organic Chemistry, 2017, 2017, 4091-4103.	2.4	8
97	Breaking the Limits in Analyzing Carbohydrate Recognition by NMR Spectroscopy: Resolving Branchâ€Selective Interaction of a Tetraâ€Antennary Nâ€Glycan with Lectins. Angewandte Chemie, 2017, 129, 15183-15187.	2.0	8
98	Two-dimensional 1H and 1H-detected NMR study of a heterogeneous biocatalyst using fast MAS at high magnetic fields. Solid State Nuclear Magnetic Resonance, 2018, 92, 7-11.	2.3	8
99	Aqueous Assembly of Zwitterionic Daisy Chains. Chemistry - A European Journal, 2019, 25, 285-295.	3.3	8
100	Upregulation of an Artificial Zymogen by Proteolysis. Angewandte Chemie, 2016, 128, 11759-11762.	2.0	7
101	Donorâ€“Acceptor Molecular Triangles. Synthesis, 2017, 49, 899-909.	2.3	7
102	Manganese(I) Complex with Monodentate Arylisocyanide Ligands Shows Photodissociation Instead of Luminescence. Inorganic Chemistry, 2022, 61, 10533-10547.	4.0	7
103	A Chiral Macrocyclic Oligothiophene with Broken Conjugation â€“ Rapid Racemization through Internal Rotation. Helvetica Chimica Acta, 2019, 102, e1800205.	1.6	6
104	Mechanical Fixation by Porphyrin Connection: Synthesis and Transport Studies of a Bicyclic Dimer. Journal of Organic Chemistry, 2020, 85, 118-128.	3.2	6
105	NMR pseudocontact shifts in a symmetric protein homotrimer. Journal of Biomolecular NMR, 2020, 74, 413-419.	2.8	6
106	Self-assembly of heteroleptic dinuclear silver(i) complexes bridged by bis(diphenylphosphino)ethyne. Dalton Transactions, 2018, 47, 946-957.	3.3	5
107	A Phenylâ€Ethynylâ€Macrocycle: A Model Compound for â€œGelÃnderâ€•Oligomers Comprising Reactive Conjugated Banisters. European Journal of Organic Chemistry, 2018, 2018, 3391-3402.	2.4	5
108	Molecular Ansa-Basket: Synthesis of Inherently Chiral All-Carbon [12](1,6)Pyrenophane. Journal of Organic Chemistry, 2019, 84, 5271-5276.	3.2	5

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109	A Visibleâ€Light Promoted Amine Oxidation Catalyzed by a Cp*Ir Complex. ChemCatChem, 2020, 12, 4512-4516.	3.7	5
110	Evaluation of the Formate Dehydrogenase Activity of Three-Legged Pianostool Complexes in Dilute Aqueous Solution. European Journal of Inorganic Chemistry, 2014, 2014, 5860-5864.	2.0	4
111	Rotationally Restricted 1,1â€²â€BisÂ(phenylethynyl)ferrocene Subunits in Macrocycles. European Journal of Organic Chemistry, 2016, 2016, 2187-2199.	2.4	4
112	Electron Transfer across o-Phenylene Wires. Journal of Physical Chemistry A, 2019, 123, 96-102.	2.5	4
113	Catalystâ€Controlled Transannular Polyketide Cyclization Cascades: Selective Folding of Macrocyclic Polyketides. Angewandte Chemie - International Edition, 2020, 59, 18390-18394.	13.8	4
114	Iron in a Cage: Fixation of a Fe(II)tpy 2 Complex by Fourfold Interlinking. Angewandte Chemie, 2020, 132, 16081-16086.	2.0	4
115	Bicyclic Phenylâ€“Ethynyl Architectures: Synthesis of a 1,4â€Bis(phenylbutaâ€•1,3â€•diynâ€•1â€•yl) Benzene Banister. Chemistry - A European Journal, 2021, 27, 6295-6307.	3.3	4
116	Application of 61Ni MÃ¶ssbauer spectroscopy to chemical problems. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1996, 18, 231-235.	0.4	3
117	Nuclear magnetic resonance as a quantitative tool to study interactions in biomacromolecules. Pure and Applied Chemistry, 2005, 77, 1409-1424.	1.9	3
118	Slow Formation of Pseudorotaxanes in Water. European Journal of Organic Chemistry, 2019, 2019, 3384-3390.	2.4	3
119	Sulfone â€œGelÃnderâ€•Helices: Revealing Unexpected Parameters Controlling the Enantiomerization Process. Journal of Organic Chemistry, 2021, 86, 5431-5442.	3.2	3
120	An Ortho â€Tetraphenyleneâ€Based â€œGelÃnderâ€•Architecture Consisting Exclusively of 52 sp 2 â€Hybridized C Atoms. Chemistry - A European Journal, 2021, 27, 13258-13267.	3.3	3
121	Human T cells engineered with a leukemia lipid-specific TCR enables donor-unrestricted recognition of CD1c-expressing leukemia. Nature Communications, 2021, 12, 4844.	12.8	3
122	1H, 13C, and 15N chemical shift assignments for the N-terminal extracellular domain of T-cadherin. Journal of Biomolecular NMR, 2007, 38, 179-179.	2.8	1
123	Biophysical Chemistry. Chimia, 2010, 64, 874-876.	0.6	1
124	[NiS] complexes as potential models for hydrogenases and co dehydrogenases. Journal of Inorganic Biochemistry, 1993, 51, 190.	3.5	0
125	Catalystâ€Controlled Transannular Polyketide Cyclization Cascades: Selective Folding of Macrocyclic Polyketides. Angewandte Chemie, 2020, 132, 18548-18552.	2.0	0