Morten GrÃ¸tli

List of Publications by Year
in descending order

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116 papers	3,358 citations	136740 32 h-index	189595 50 g-index
119 all docs	119 docs citations	119 times ranked	4372 citing authors

#	Article	IF	Citations
1	Structural and Mechanistic Basis of Pre- and Posttransfer Editing by Leucyl-tRNA Synthetase. Molecular Cell, 2003, 11, 951-963.	4.5	209
2	SPOCC:â€‰ A Resin for Solid-Phase Organic Chemistry and Enzymatic Reactions on Solid Phase. Journal of the American Chemical Society, 1999, 121, 5459-5466.	6.6	142
3	Network analyses identify liverâ€specific targets for treating liver diseases. Molecular Systems Biology, 2017, 13, 938.	3.2	112
4	The crystal structure of asparaginyl-tRNA synthetase from Thermus thermophilus and its complexes with ATP and asparaginyl-adenylate: the mechanism of discrimination between asparagine and aspartic acid. EMBO Journal, 1998, 17, 2947-2960.	3.5	90
5	Physical Properties of Poly(ethylene glycol) (PEG)-Based Resins for Combinatorial Solid Phase Organic Chemistry:Â A Comparison of PEG-Cross-Linked and PEG-Grafted Resins. ACS Combinatorial Science, 2000, 2, 108-119.	3.3	86
6	Drug Repositioning for Effective Prostate Cancer Treatment. Frontiers in Physiology, 2018, 9, 500.	1.3	85
7	Efficient synthesis of 2,5-diketopiperazines using microwave assisted heating. Tetrahedron, 2006, 62, 7484-7491.	1.0	80
8	Solid-Phase Peptide Synthesis in Water Using Microwave-Assisted Heating. Organic Letters, 2009, 11, 4488-4491.	2.4	77
9	ROLE OF THE SUBUNIT COMPOSITION OF CENTRAL NICOTINIC ACETYLCHOLINE RECEPTORS FOR THE STIMULATORY AND DOPAMINE-ENHANCING EFFECTS OF ETHANOL. Alcohol and Alcoholism, 2006, 41, 486-493.	0.9	76
10	Design, Synthesis and Inhibitory Activity of Photoswitchable RET Kinase Inhibitors. Scientific Reports, 2015, 5, 9769.	1.6	69
11	Shining New Light on the Spiropyran Photoswitch: A Photocage Decides between cisâ€“trans or Spiro-Merocyanine Isomerization. Journal of the American Chemical Society, 2018, 140, 14069-14072.	6.6	66
12	Inhibitors and promoters of tubulin polymerization: Synthesis and biological evaluation of chalcones and related dienones as potential anticancer agents. Bioorganic and Medicinal Chemistry, 2011, 19, 2659-2665.	1.4	61
13	Secondary structure prediction and in vitro accessibility of mRNA as tools in the selection of target sites for ribozymes. Nucleic Acids Research, 2000, 28, 4113-4124.	6.5	58
14	Synthesis of 2-Alkyl-Substituted Chromone Derivatives Using Microwave Irradiation. Journal of Organic Chemistry, 2009, 74, 2755-2759.	1.7	58
15	Determination of primary sequence specificity of Arabidopsis MAPKs MPK3 and MPK6 leads to identification of new substrates. Biochemical Journal, 2012, 446, 271-278.	1.7	58
16	The Biotin Repressor: Modulation of Allostery by Corepressor Analogs. Journal of Molecular Biology, 2004, 337, 857-869.	2.0	54
17	Synthesis of 2,3,6,8-Tetrasubstituted Chromone Scaffolds. Journal of Organic Chemistry, 2006, 71, 6863-6871.	1.7	51
18	Chromo-pharmacophores: photochromic diarylmaleimide inhibitors for sirtuins. Chemical Science, 2014, 5, 4794-4799.	3.7	51

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19	Design, Synthesis, and Biological Evaluation of Chromone-Based p38 MAP Kinase Inhibitors. Journal of Medicinal Chemistry, 2011, 54, 7427-7431.	2.9	50
20	Synthesis and Photophysical Characterisation of Fluorescent 8â€(1Hâ€1,2,3â€Triazolâ€4â€yl)adenosine Derivatives. European Journal of Organic Chemistry, 2009, 2009, 1515-1521.	1.2	48
21	Preparation of 3-Substituted-1-Isopropyl-1H-pyrazolo[3,4-d]pyrimidin-4-amines as RET Kinase Inhibitors. Journal of Medicinal Chemistry, 2012, 55, 4872-4876.	2.9	47
22	Discovering New Classes of BrugiaÂmalayi Asparaginyl-tRNA Synthetase Inhibitors and Relating Specificity to Conformational Change. Journal of Computer-Aided Molecular Design, 2006, 20, 159-178.	1.3	46
23	Toward Complete Sequence Flexibility of Nucleic Acid Base Analogue FRET. Journal of the American Chemical Society, 2017, 139, 9271-9280.	6.6	44
24	Synthesis of 3-(1,2,3-triazol-1-yl)- and 3-(1,2,3-triazol-4-yl)-substituted pyrazolo[3,4-d]pyrimidin-4-amines via click chemistry: potential inhibitors of the Plasmodium falciparum PfPK7 protein kinase. Organic and Biomolecular Chemistry, 2009, 7, 3421.	1.5	43
25	Characterization of photophysical and base-mimicking properties of a novel fluorescent adenine analogue in DNA. Nucleic Acids Research, 2011, 39, 4513-4524.	6.5	43
26	2â€²-O-Propargyl oligoribonucleotides: Synthesis and hybridisation. Tetrahedron, 1998, 54, 5899-5914.	1.0	42
27	Arsenic Directly Binds to and Activates the Yeast AP-1-Like Transcription Factor Yap8. Molecular and Cellular Biology, 2016, 36, 913-922.	1.1	42
28	KHMDS Enhanced SmI₂-Mediated Reformatsky Type Î±-Cyanation. Organic Letters, 2010, 12, 2210-2213.	2.4	39
29	Synthesis of Functionalized, Unsymmetrical 1,3,4,6-Tetrasubstituted 2,5-Diketopiperazines. Journal of Organic Chemistry, 2007, 72, 195-199.	1.7	36
30	Microwave-Assisted Solid-Phase Synthesis of 2,5-Diketopiperazines:Â Solvent and Resin Dependence. ACS Combinatorial Science, 2006, 8, 915-922.	3.3	35
31	Pentacyclic adenine: a versatile and exceptionally bright fluorescent DNA base analogue. Chemical Science, 2018, 9, 3494-3502.	3.7	34
32	SPOCC-194, a New High Functional Group Density PEG-Based Resin for Solid-Phase Organic Synthesis. ACS Combinatorial Science, 2002, 4, 523-529.	3.3	33
33	7-(Benzofuran-2-yl)-7-deazadeoxyguanosine as a fluorescence turn-ON probe for single-strand DNA binding protein. Chemical Communications, 2016, 52, 3809-3812.	2.2	33
34	Solid-Phase Glycosylation of Peptide Templates and On-Bead MAS-NMR Analysis: Perspectives for Glycopeptide Libraries. Chemistry - A European Journal, 2001, 7, 3584.	1.7	32
35	Short cut to 1,2,3-triazole-based p38 MAP kinase inhibitorsvia [3+2]-cycloaddition chemistry. New Journal of Chemistry, 2009, 33, 1010-1016.	1.4	32
36	Synthesis of 3-Aminomethyl-2-aryl- 8-bromo-6-chlorochromones. Organic Letters, 2007, 9, 389-391.	2.4	31

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37	Plasmodium dihydrofolate reductase is a second enzyme target for the antimalarial action of triclosan. Scientific Reports, 2018, 8, 1038.	1.6	31
38	Validation of regulated protein phosphorylation events in yeast by quantitative mass spectrometry analysis of purified proteins. Proteomics, 2012, 12, 3030-3043.	1.3	30
39	Fluorescent nucleobase analogues for baseâ€“base FRET in nucleic acids: synthesis, photophysics and applications. Beilstein Journal of Organic Chemistry, 2018, 14, 114-129.	1.3	30
40	Solid-phase synthesis of branched RNA and branched DNA/RNA chimeras. Tetrahedron, 1997, 53, 11317-11346.	1.0	29
41	Enhanced microwaveâ€assisted method for onâ€bead disulfide bond formation: Synthesis of Î±â€conotoxin MII. Biopolymers, 2009, 92, 23-34.	1.2	29
42	2,6,8â€Trisubstituted 3â€Hydroxychromone Derivatives as Fluorophores for Liveâ€Cell Imaging. Chemistry - A European Journal, 2009, 15, 9417-9423.	1.7	28
43	Improving the economics of NASH/NAFLD treatment through the use of systems biology. Drug Discovery Today, 2017, 22, 1532-1538.	3.2	28
44	Diffusion of Reagents in Macrobeads. ACS Combinatorial Science, 2001, 3, 461-468.	3.3	27
45	Microwave-assisted synthesis of the SchÃ¶llkopf chiral auxiliaries: (3S)- and (3R)-3,6-dihydro-2,5-diethoxy-3-isopropyl-pyrazine. Tetrahedron Letters, 2006, 47, 5199-5201.	0.7	27
46	Synthesis and Photophysical Characterization of Azoheteroarenes. Organic Letters, 2018, 20, 4875-4879.	2.4	27
47	Microwave assisted synthesis of spiro-2,5-diketopiperazines. Tetrahedron, 2007, 63, 9881-9889.	1.0	26
48	Palladium on Carbon Encapsulated in POEPOP1500:â€‰ A Resin-Supported Catalyst for Hydrogenation Reactions. Organic Letters, 2002, 4, 27-30.	2.4	25
49	Synthesis of adenosine-based fluorosides containing a novel heterocyclic ring system. Tetrahedron Letters, 2005, 46, 6745-6748.	0.7	25
50	Carbon- and Oxygen-Centered Radicals Are Equally Important Haptens of Allylic Hydroperoxides in Allergic Contact Dermatitis. Chemical Research in Toxicology, 2008, 21, 1536-1547.	1.7	23
51	Interbase FRET in RNA: from A to Z. Nucleic Acids Research, 2019, 47, 9990-9997.	6.5	23
52	Design, Synthesis, and Characterization of a Highly Effective Hog1 Inhibitor: A Powerful Tool for Analyzing MAP Kinase Signaling in Yeast. PLoS ONE, 2011, 6, e20012.	1.1	23
53	Protection of the guanine residue during synthesis of 2â€²-O-alkylguanosine derivatives. Journal of the Chemical Society Perkin Transactions 1, 1997, , 2779-2788.	0.9	22
54	Secondâ€Generation Fluorescent Quadracyclic Adenine Analogues: Environmentâ€Responsive Probes with Enhanced Brightness. Chemistry - A European Journal, 2015, 21, 4039-4048.	1.7	22

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55	Flexibility is important for inhibition of the MDM2/p53 proteinâ€“protein interaction by cyclic Î²-hairpins. Organic and Biomolecular Chemistry, 2016, 14, 10386-10393.	1.5	22
56	Synthesis and photophysical properties of novel cyclonucleosidesâ€”substituent effects on fluorescence emission. Tetrahedron, 2008, 64, 7151-7158.	1.0	20
57	Peroxiredoxin promotes longevity and H2O2-resistance in yeast through redox-modulation of protein kinase A. ELife, 2020, 9, .	2.8	20
58	Onâ€Command Regulation of Kinase Activity using Photonic Stimuli. ChemPhotoChem, 2019, 3, 318-326.	1.5	19
59	Getting DNA and RNA out of the dark with 2CNqA: a bright adenine analogue and interbase FRET donor. Nucleic Acids Research, 2020, 48, 7640-7652.	6.5	19
60	Surfactant Mediated Cationic and Anionic Suspension Polymerization of PEG-Based Resins in Silicon Oil:Â Beaded SPOCC 1500 and POEPOP 1500. ACS Combinatorial Science, 2001, 3, 28-33.	3.3	18
61	8-Bromination of 2,6,9-trisubstituted purines with pyridinium tribromide. Tetrahedron Letters, 2014, 55, 2929-2931.	0.7	18
62	HwHog1 kinase activity is crucial for survival of Hortaea werneckii in extremely hyperosmolar environments. Fungal Genetics and Biology, 2015, 74, 45-58.	0.9	18
63	Synthesis of 2'-Allyl-2'-Deoxyribonucleosides by Radical Reactions.. Acta Chemica Scandinavica, 1995, 49, 217-224.	0.7	18
64	Novel solid-phase synthesis of branched oligoribonucleotides, including a substrate for the RNA debranching enzyme. Journal of the Chemical Society Perkin Transactions 1, 1994, , 419-431.	0.9	17
65	Single-bead structure elucidation. Requirements for analysis of combinatorial solid-phase libraries by Nanoprobe MAS-NMR spectroscopy. Journal of the Chemical Society, Perkin Transactions 1, 2000, , 1167-1171.	1.3	17
66	Development of bright fluorescent quadracyclic adenine analogues: TDDFT-calculation supported rational design. Scientific Reports, 2015, 5, 12653.	1.6	17
67	A simple method for the synthesis of 2â€²-O-alkylguanosine derivatives. Bioorganic and Medicinal Chemistry Letters, 1997, 7, 425-428.	1.0	16
68	Towards peptide isostere libraries: aqueous aldol reactions on hydrophilic solid supports. Journal of the Chemical Society, Perkin Transactions 1, 2000, , 955-962.	1.3	16
69	Structural Insights into the Polyphyletic Origins of Glycyl tRNA Synthetases. Journal of Biological Chemistry, 2016, 291, 14430-14446.	1.6	16
70	An acido- and photochromic molecular device that mimics triode action. Chemical Communications, 2016, 52, 4659-4662.	2.2	16
71	Pulse-shaped two-photon excitation of a fluorescent base analogue approaches single-molecule sensitivity. Physical Chemistry Chemical Physics, 2018, 20, 28487-28498.	1.3	16
72	NMR-Based Substrate Analog Docking to Escherichia coli Peptidyl-tRNA Hydrolase. Journal of Molecular Biology, 2011, 412, 619-633.	2.0	15

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73	On the use of diarylmaleimide derivatives in biological contexts: An investigation of the photochromic properties in aqueous solution. Dyes and Pigments, 2017, 137, 410-420.	2.0	15
74	Selective inhibition of RET mediated cell proliferation in vitro by the kinase inhibitor SPP86. BMC Cancer, 2014, 14, 853.	1.1	14
75	A Caged Ret Kinase Inhibitor and its Effect on Motoneuron Development in Zebrafish Embryos. Scientific Reports, 2015, 5, 13109.	1.6	14
76	Structural Influence on Radical Formation and Sensitizing Capacity of Alkylic Limonene Hydroperoxide Analogues in Allergic Contact Dermatitis. Chemical Research in Toxicology, 2010, 23, 677-688.	1.7	13
77	Proline-mediated formation of novel chroman-4-one tetrahydropyrimidines. Tetrahedron, 2012, 68, 7035-7040.	1.0	13
78	Synthesis and photophysical characterisation of new fluorescent triazole adenine analogues. Organic and Biomolecular Chemistry, 2014, 12, 5158-5167.	1.5	13
79	A Genetic Trap in Yeast for Inhibitors of SARS-CoV-2 Main Protease. MSystems, 2021, 6, e0108721.	1.7	13
80	2â€²-O-(carbamoylmethyl)oligoribonucleotides. Tetrahedron, 1999, 55, 4299-4314.	1.0	12
81	HYDRA: A novel hydroxy and amine functionalised resin synthesised by reductive amination of PEG aldehyde and a polyamine. Journal of the Chemical Society, Perkin Transactions 1, 2000, , 4258-4264.	1.3	12
82	Synthesis of 2â€²-([1,2,3]Triazol-1-yl)-2â€²-deoxyadenosines. Nucleosides, Nucleotides and Nucleic Acids, 2008, 27, 449-459.	0.4	12
83	Towards the development of chromone-based MEK1/2 modulators. European Journal of Medicinal Chemistry, 2014, 85, 127-138.	2.6	12
84	Synthesis of Chiral 1,4-Disubstituted-1,2,3-Triazole Derivatives from Amino Acids. Molecules, 2009, 14, 5124-5143.	1.7	11
85	Design, Synthesis and Evaluation of 2,5-Diketopiperazines as Inhibitors of the MDM2-p53 Interaction. PLoS ONE, 2015, 10, e0137867.	1.1	11
86	Characterization of interactions and pharmacophore development for DFG-out inhibitors to RET tyrosine kinase. Journal of Molecular Modeling, 2015, 21, 167.	0.8	11
87	Chroman-4-one and chromone based somatostatin Î²-turn mimetics. European Journal of Medicinal Chemistry, 2016, 114, 59-64.	2.6	11
88	Synthesis, oligonucleotide incorporation and fluorescence properties in DNA of a bicyclic thymine analogue. Scientific Reports, 2018, 8, 13970.	1.6	11
89	8-Triazolylpurines: Towards Fluorescent Inhibitors of the MDM2/p53 Interaction. PLoS ONE, 2015, 10, e0124423.	1.1	11
90	The unique characteristics of HOG pathway MAPKs in the extremely halotolerant Hortaea werneckii. FEMS Microbiology Letters, 2015, 362, fnv046.	0.7	10

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91	A Fluorescent Kinase Inhibitor that Exhibits Diagnostic Changes in Emission upon Binding. Angewandte Chemie - International Edition, 2019, 58, 15000-15004.	7.2	10
92	A Redox-Sensitive Thiol in Wis1 Modulates the Fission Yeast Mitogen-Activated Protein Kinase Response to H₂O₂ and Is the Target of a Small Molecule. Molecular and Cellular Biology, 2020, 40, .	1.1	10
93	Crystallization and preliminary crystallographic analysis ofThermus thermophilusleucyl-tRNA synthetase and its complexes with leucine and a non-hydrolysable leucyl-adenylate analogue. Acta Crystallographica Section D: Biological Crystallography, 2000, 56, 667-669.	2.5	9
94	Design and development of a photoswitchable DFG-out kinase inhibitor. Chemical Communications, 2021, 57, 10043-10046.	2.2	9
95	Ether, Carbonate and Urethane Deoxynucleoside Derivatives as Prodrugs.. Acta Chemica Scandinavica, 1996, 50, 609-622.	0.7	9
96	Positional Scanning Peptide Libraries for Kinase Substrate Specificity Determinations: Straightforward and Reproducible Synthesis Using Pentafluorophenyl Esters. ACS Combinatorial Science, 2010, 12, 733-742.	3.3	8
97	Method for Activation and Recycling of Trityl Resins. Journal of Organic Chemistry, 2012, 77, 7071-7075.	1.7	8
98	Investigation, optimization and synthesis of sulfamoyloxy-linked aminoacyl-AMP analogues. Tetrahedron, 2012, 68, 1507-1514.	1.0	8
99	Synthesis and photophysical characterization of 1- and 4-(purinyl)triazoles. Tetrahedron, 2013, 69, 8857-8864.	1.0	8
100	Discovery of Functional Alternatively Spliced PKM Transcripts in Human Cancers. Cancers, 2021, 13, 348.	1.7	8
101	Anthraquinone derivatives as ADP-competitive inhibitors of liver pyruvate kinase. European Journal of Medicinal Chemistry, 2022, 234, 114270.	2.6	8
102	Design, Synthesis and Characterization of a Highly Effective Inhibitor for Analog-Sensitive (as) Kinases. PLoS ONE, 2011, 6, e20789.	1.1	7
103	Design and development of photoswitchable DFG-Out RET kinase inhibitors. European Journal of Medicinal Chemistry, 2022, 234, 114226.	2.6	7
104	Application of a peptide-based assay to characterize inhibitors targeting protein kinases from yeast. Current Genetics, 2014, 60, 193-200.	0.8	6
105	Interbase-FRET binding assay for pre-microRNAs. Scientific Reports, 2021, 11, 9396.	1.6	6
106	A Single-Cell Study of a Highly Effective Hog1 Inhibitor for in Situ Yeast Cell Manipulation. Micromachines, 2014, 5, 81-96.	1.4	5
107	A universal solid-phase synthesis of branched oligoribonucleotides. Journal of the Chemical Society Chemical Communications, 1995, .	2.0	4
108	Solidâ€Phase Synthesis of 5â€²â€Oâ€[Nâ€(Acyl)sulfamoyl]adenosine Derivatives. European Journal of Organic Chemistry, 2012, 2012, 3665-3669.	1.2	4

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109	A practical synthesis of 2â€²-aminoacylamino-2â€²-deoxyadenosines. Tetrahedron, 2007, 63, 6901-6908.	1.0	3
110	A Fluorescent Kinase Inhibitor that Exhibits Diagnostic Changes in Emission upon Binding. Angewandte Chemie, 2019, 131, 15142-15146.	1.6	3
111	Lighting Up DNA with the Environmentâ€Sensitive Bright Adenine Analogue qAN4. ChemPlusChem, 2020, 85, 319-326.	1.3	3
112	Defects in the calcium-binding region drastically affect the cadherin-like domains of RET tyrosine kinase. Physical Chemistry Chemical Physics, 2016, 18, 8673-8681.	1.3	2
113	A Small Molecule Targeting Human MEK1/2 Enhances ERK and p38 Phosphorylation under Oxidative Stress or with Phenothiazines. Life, 2021, 11, 297.	1.1	2
114	A Scaffold Approach to 3,6,8-Trisubstituted Flavones. Synlett, 2006, 2006, 897-900.	1.0	1
115	Environmentally friendly catechol-based synthesis of dibenzosultams. New Journal of Chemistry, 2022, 46, 5593-5605.	1.4	1
116	Design and Synthesis of Novel Chromone Based Peptidomimetics. , 2006, , 677-678.		0