

# Tom N Grossmann

## List of Publications by Year in descending order

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74  
papers

4,913  
citations

126708

33  
h-index

95083

68  
g-index

93  
all docs

93  
docs citations

93  
times ranked

5963  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure-Based Design of Inhibitors of Protein-Protein Interactions: Mimicking Peptide Binding Epitopes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8896-8927.	7.2	540
2	Modulators of Protein-Protein Interactions. <i>Chemical Reviews</i> , 2014, 114, 4695-4748.	23.0	407
3	Synthesis of all-hydrocarbon stapled $\alpha$ -helical peptides by ring-closing olefin metathesis. <i>Nature Protocols</i> , 2011, 6, 761-771.	5.5	328
4	New Modalities for Challenging Targets in Drug Discovery. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10294-10323.	7.2	275
5	Hydrocarbon Stapled Peptides as Modulators of Biological Function. <i>ACS Chemical Biology</i> , 2015, 10, 1362-1375.	1.6	244
6	Inhibition of oncogenic Wnt signaling through direct targeting of $\beta$ -catenin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 17942-17947.	3.3	221
7	Small-molecule modulation of Ras signaling. <i>Nature Chemical Biology</i> , 2014, 10, 613-622.	3.9	191
8	Towards understanding cell penetration by stapled peptides. <i>MedChemComm</i> , 2015, 6, 111-119.	3.5	183
9	Plant cysteine oxidases are dioxygenases that directly enable arginyl transferase-catalysed arginylation of N-end rule targets. <i>Nature Communications</i> , 2017, 8, 14690.	5.8	171
10	Triplex Molecular Beacons as Modular Probes for DNA Detection. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5223-5225.	7.2	140
11	DNA-Catalyzed Transfer of a Reporter Group. <i>Journal of the American Chemical Society</i> , 2006, 128, 15596-15597.	6.6	137
12	Achieving Turnover in DNA-Templated Reactions. <i>ChemBioChem</i> , 2008, 9, 2185-2192.	1.3	123
13	Constrained Peptides with Target-Adapted Cross-Links as Inhibitors of a Pathogenic Protein-Protein Interaction. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2489-2493.	7.2	118
14	Cell Permeable Stapled Peptide Inhibitor of Wnt Signaling that Targets $\beta$ -Catenin Protein-Protein Interactions. <i>Cell Chemical Biology</i> , 2017, 24, 958-968.e5.	2.5	92
15	Proteomimetics as protein-inspired scaffolds with defined tertiary folding patterns. <i>Nature Chemistry</i> , 2020, 12, 331-337.	6.6	90
16	Orthogonal ring-closing alkyne and olefin metathesis for the synthesis of small GTPase-targeting bicyclic peptides. <i>Nature Communications</i> , 2016, 7, 11300.	5.8	84
17	Direct Targeting of Rab-GTPase-Effector Interactions. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2498-2503.	7.2	79
18	Nucleic Acid Templated Reactions: Consequences of Probe Reactivity and Readout Strategy for Amplified Signaling and Sequence Selectivity. <i>Chemistry - A European Journal</i> , 2009, 15, 6723-6730.	1.7	69

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19	Target-Catalyzed Transfer Reactions for the Amplified Detection of RNA. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7119-7122.	7.2	66
20	Selective Protein Hyperpolarization in Cell Lysates Using Targeted Dynamic Nuclear Polarization. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10746-10750.	7.2	66
21	Reversible Covalent Inhibition of a Protein Target. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 8699-8700.	7.2	65
22	Direct Modulation of Small GTPase Activity and Function. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13516-13537.	7.2	63
23	Protease-Resistant and Cell-Permeable Double-Stapled Peptides Targeting the Rab8a GTPase. <i>ACS Chemical Biology</i> , 2016, 11, 2375-2382.	1.6	61
24	DNA-Triggered Synthesis and Bioactivity of Proapoptotic Peptides. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2828-2832.	7.2	57
25	Protein-RNA interactions: structural characteristics and hotspot amino acids. <i>Rna</i> , 2018, 24, 1457-1465.	1.6	56
26	The Therapeutic Potential of PTEN Modulation: Targeting Strategies from Gene to Protein. <i>Cell Chemical Biology</i> , 2018, 25, 19-29.	2.5	45
27	Structure-Based Design of Non-natural Macrocyclic Peptides That Inhibit Protein-Protein Interactions. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 8982-8988.	2.9	43
28	Structural Analysis of the Interaction between the Bacterial Cell Division Proteins FtsQ and FtsB. <i>MBio</i> , 2018, 9, .	1.8	40
29	Neue ModalitÄten für schwierige Zielstrukturen in der Wirkstoffentwicklung. <i>Angewandte Chemie</i> , 2017, 129, 10428-10459.	1.6	39
30	In-Situ Cyclization of Native Proteins: Structure-Based Design of a Bicyclic Enzyme. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11164-11170.	7.2	39
31	Direct targeting of $\beta$ -catenin: Inhibition of protein-protein interactions for the inactivation of Wnt signaling. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 4020-4026.	1.4	38
32	Redox Modulation of PTEN Phosphatase Activity by Hydrogen Peroxide and Bisperoxidovanadium Complexes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13796-13800.	7.2	38
33	A protein tertiary structure mimetic modulator of the Hippo signalling pathway. <i>Nature Communications</i> , 2020, 11, 5425.	5.8	38
34	Constraining an Irregular Peptide Secondary Structure through Ring-Closing Alkyne Metathesis. <i>ChemBioChem</i> , 2016, 17, 1915-1919.	1.3	36
35	Targeting $\beta$ -catenin dependent Wnt signaling via peptidomimetic inhibitors in murine chondrocytes and OA cartilage. <i>Osteoarthritis and Cartilage</i> , 2018, 26, 818-823.	0.6	33
36	Protein-Templated Peptide Ligation. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4337-4340.	7.2	32

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37	Macrocyclic Modalities Combining Peptide Epitopes and Natural Product Fragments. <i>Journal of the American Chemical Society</i> , 2020, 142, 4904-4915.	6.6	32
38	Bicyclic $\beta$ -Sheet Mimetics that Target the Transcriptional Coactivator $\beta$ -Catenin and Inhibit Wnt Signaling. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13937-13944.	7.2	32
39	Coiled-Coil Peptide Beacon: A Tunable Conformational Switch for Protein Detection. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 17079-17083.	7.2	25
40	DNA-instructed acyl transfer reactions for the synthesis of bioactive peptides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 4993-4997.	1.0	24
41	First-in-Class Cyclic Temporin L Analogue: Design, Synthesis, and Antimicrobial Assessment. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 11675-11694.	2.9	24
42	Linking cytochrome P450 enzymes from <i>Mycobacterium tuberculosis</i> to their cognate ferredoxin partners. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 9231-9242.	1.7	21
43	Adapting free energy perturbation simulations for large macrocyclic ligands: how to dissect contributions from direct binding and free ligand flexibility. <i>Chemical Science</i> , 2020, 11, 2269-2276.	3.7	21
44	Photo-Thermal Haptotropism in Cyclopentadienylcobalt Complexes of Linear Phenylenes: Intercyclobutadiene Metal Migration. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9853-9857.	7.2	20
45	Translocation of an Intracellular Protein via Peptide-Directed Ligation. <i>ACS Chemical Biology</i> , 2017, 12, 504-509.	1.6	20
46	Selective Protein Hyperpolarization in Cell Lysates Using Targeted Dynamic Nuclear Polarization. <i>Angewandte Chemie</i> , 2016, 128, 10904-10908.	1.6	19
47	Increased Conformational Flexibility of a Macrocyclic Receptor Complex Contributes to Reduced Dissociation Rates. <i>Chemistry - A European Journal</i> , 2017, 23, 16157-16161.	1.7	19
48	Constrained Peptides with Fine-Tuned Flexibility Inhibit NF- $\kappa$ B Transcription Factor Assembly. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17351-17358.	7.2	18
49	Protein Macrocyclization for Tertiary Structure Stabilization. <i>ChemBioChem</i> , 2021, 22, 2672-2679.	1.3	18
50	Oligonucleotides with Cationic Backbone and Their Hybridization with DNA: Interplay of Base Pairing and Electrostatic Attraction. <i>Chemistry - A European Journal</i> , 2018, 24, 1544-1553.	1.7	16
51	Inducing the replacement of PNA in DNA-PNA duplexes by DNA. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 34-39.	1.4	11
52	Targeting the interaction of $\beta$ -catenin and TCF/LEF transcription factors to inhibit oncogenic Wnt signaling. <i>Bioorganic and Medicinal Chemistry</i> , 2022, 70, 116920.	1.4	11
53	Constrained peptides mimic a viral suppressor of RNA silencing. <i>Nucleic Acids Research</i> , 2021, 49, 12622-12633.	6.5	10
54	Chemical control of biomolecular interaction modules. <i>Pure and Applied Chemistry</i> , 2009, 81, 273-284.	0.9	9

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55	Lipidated Stapled Peptides Targeting the Acyl Binding Protein UNC119. <i>ChemBioChem</i> , 2019, 20, 2987-2990.	1.3	9
56	In Situ Cyclization of Proteins (INCYPRO): Cross-Link Derivatization Modulates Protein Stability. <i>Journal of Organic Chemistry</i> , 2020, 85, 1476-1483.	1.7	8
57	Inâ€¦Situ Cyclization of Native Proteins: Structureâ€Based Design of a Bicyclic Enzyme. <i>Angewandte Chemie</i> , 2018, 130, 11334-11340.	1.6	7
58	Synergistic DNAâ€and Proteinâ€Based Recognition Promote an RNAâ€Templated Bioâ€orthogonal Reaction. <i>Chemistry - A European Journal</i> , 2021, 27, 10477-10483.	1.7	6
59	Stapling of Peptides Potentiates the Antibiotic Treatment of <i>Acinetobacter baumannii</i> In Vivo. <i>Antibiotics</i> , 2022, 11, 273.	1.5	6
60	Bicyclic Î²â€Sheet Mimetics that Target the Transcriptional Coactivator Î²â€Catenin and Inhibit Wnt Signaling. <i>Angewandte Chemie</i> , 2021, 133, 14056-14063.	1.6	4
61	Coiledâ€Coil Peptide Beacon: A Tunable Conformational Switch for Protein Detection. <i>Angewandte Chemie</i> , 2018, 130, 17325-17329.	1.6	3
62	Constrained Peptides with Fineâ€Tuned Flexibility Inhibit NFâ€Y Transcription Factor Assembly. <i>Angewandte Chemie</i> , 2019, 131, 17512-17519.	1.6	3
63	Acetylene containing cyclo(L-Tyr-L-Tyr)-analogs as mechanism-based inhibitors of CYP121A1 from <i>Mycobacterium tuberculosis</i> . <i>Biochemical Pharmacology</i> , 2020, 177, 113938.	2.0	3
64	New aspects in fragmentation of peptide nucleic acids: comparison of positive and negative ions by electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 1132-1138.	0.7	2
65	Constraining Peptide Conformations with the Help of Ring-Closing Metathesis. <i>Synlett</i> , 2014, 26, 1-5.	1.0	2
66	Recognizing and Controlling Biomolecules with "Smart" Hybridization-based Switches. <i>Nucleic Acids Symposium Series</i> , 2008, 52, 29-30.	0.3	0
67	72 Semi-rational design of Î²-catenin targeting peptides for the inhibition of Wnt-dependent signaling. <i>European Journal of Cancer, Supplement</i> , 2010, 8, 31.	2.2	0
68	RÃ¼cktitelbild: Makrocyclische Peptide mit dem Zielprotein angepassten KohlenwasserstoffbrÃ¼cken: Inhibitoren einer pathogenen Protein-Protein-Wechselwirkung ( <i>Angew. Chem.</i> 9/2014). <i>Angewandte Chemie</i> , 2014, 126, 2544-2544.	1.6	0
69	Innentitelbild: Selective Protein Hyperpolarization in Cell Lysates Using Targeted Dynamic Nuclear Polarization ( <i>Angew. Chem.</i> 36/2016). <i>Angewandte Chemie</i> , 2016, 128, 10682-10682.	1.6	0
70	Frontispiece: Oligonucleotides with Cationic Backbone and Their Hybridization with DNA: Interplay of Base Pairing and Electrostatic Attraction. <i>Chemistry - A European Journal</i> , 2018, 24, .	1.7	0
71	Frontispiz: Inâ€¦Situ Cyclization of Native Proteins: Structure-Based Design of a Bicyclic Enzyme. <i>Angewandte Chemie</i> , 2018, 130, .	1.6	0
72	Frontispiece: Inâ€¦Situ Cyclization of Native Proteins: Structure-Based Design of a Bicyclic Enzyme. <i>Angewandte Chemie - International Edition</i> , 2018, 57, .	7.2	0

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73	Innenr¼cktitelbild: Coiledâ€Coil Peptide Beacon: A Tunable Conformational Switch for Protein Detection (Angew. Chem. 52/2018). Angewandte Chemie, 2018, 130, 17513-17513.	1.6	0
74	RÃ¼cktitelbild: Bicyclic Î²â€Sheet Mimetics that Target the Transcriptional Coactivator Î²â€Catenin and Inhibit Wnt Signaling (Angew. Chem. 25/2021). Angewandte Chemie, 2021, 133, 14316-14316.	1.6	0