

# Jörg Stetefeld

## List of Publications by Year in descending order

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109  
papers

5,589  
citations

117625

34  
h-index

85541

71  
g-index

115  
all docs

115  
docs citations

115  
times ranked

9041  
citing authors

#	ARTICLE	IF	CITATIONS
1	Increasing cannabis use and importance as an environmental contaminant mixture and associated risks to exposed biota: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 203-239.	12.8	5
2	A novel passive sampling device for low molecular weight PAHs with a proteinaceous medium. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2022, 17, 100609.	2.9	0
3	Improved SARS-CoV-2 main protease high-throughput screening assay using a 5-carboxyfluorescein substrate. <i>Journal of Biological Chemistry</i> , 2022, 298, 101739.	3.4	16
4	The Wnt-specific astacin proteinase HAS-7 restricts head organizer formation in Hydra. <i>BMC Biology</i> , 2021, 19, 120.	3.8	9
5	New approaches to reduce sample processing times for the determination of polycyclic aromatic compounds in environmental samples. <i>Chemosphere</i> , 2021, 274, 129738.	8.2	14
6	Boron rich nanotube drug carrier system is suited for boron neutron capture therapy. <i>Scientific Reports</i> , 2021, 11, 15520.	3.3	6
7	Homogenous overexpression of the extracellular matrix protein Netrin-1 in a hollow fiber bioreactor. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 6047-6057.	3.6	9
8	A C-Terminally Truncated Variant of <i>Neurospora crassa</i> VDAC Assembles Into a Partially Functional Form in the Mitochondrial Outer Membrane and Forms Multimers in vitro. <i>Frontiers in Physiology</i> , 2021, 12, 739001.	2.8	2
9	Energy flow and intersubunit signalling in GSAM: A non-equilibrium molecular dynamics study. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 1651-1663.	4.1	6
10	Molecular characterization of the RNA-protein complex directing $\hat{a}^2/\hat{a}^1$ programmed ribosomal frameshifting during arterivirus replicase expression. <i>Journal of Biological Chemistry</i> , 2020, 295, 17904-17921.	3.4	10
11	Solution structure of the cytoplasmic domain of NhaP2 a K <sup>+</sup> /H <sup>+</sup> antiporter from <i>Vibrio cholera</i> . <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183225.	2.6	1
12	Affinity-Enhanced Multimeric VEGF (Vascular Endothelial Growth Factor) and PlGF (Placental Growth) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Hypertension, 2020, 76, 1176-1184.	2.7	14
13	Structural and Hydrodynamic Characterization of Dimeric Human Oligoadenylate Synthetase 2. <i>Biophysical Journal</i> , 2020, 118, 2726-2740.	0.5	4
14	Solution structure and oligomeric state of the E. coliglycerol facilitator. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183191.	2.6	6
15	Validated quantitative cannabis profiling for Canadian regulatory compliance - Cannabinoids, aflatoxins, and terpenes. <i>Analytica Chimica Acta</i> , 2019, 1088, 79-88.	5.4	25
16	Modulating antibody-dependent cellular cytotoxicity of epidermal growth factor receptor-specific heavy-chain antibodies through hinge engineering. <i>Immunology and Cell Biology</i> , 2019, 97, 526-537.	2.3	5
17	Proteinaceous Nano container Encapsulate Polycyclic Aromatic Hydrocarbons. <i>Scientific Reports</i> , 2019, 9, 1058.	3.3	10
18	Energetics of Storage and Diffusion of Water and Cyclo-Octasulfur for a Nonpolar Cavity of RHCC Tetrabrachion by Molecular Dynamics Simulations. <i>Computational and Structural Biotechnology Journal</i> , 2019, 17, 675-683.	4.1	5

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19	Isolation of a Complex Formed Between <i>Acinetobacter baumannii</i> HemA and HemL, Key Enzymes of Tetrapyrroles Biosynthesis. <i>Frontiers in Molecular Biosciences</i> , 2019, 6, 6.	3.5	10
20	Solution Structure of <i>C. elegans</i> UNC-6: A Nematode Parologue of the Axon Guidance Protein Netrin-1. <i>Biophysical Journal</i> , 2019, 116, 2121-2130.	0.5	8
21	A Cholesterol Analog Induces an Oligomeric Reorganization of VDAC. <i>Biophysical Journal</i> , 2019, 116, 847-859.	0.5	7
22	Identification of halogenated polycyclic aromatic hydrocarbons in biological samples from Alberta Oil-Sands Region. <i>Chemosphere</i> , 2019, 215, 206-213.	8.2	19
23	Validation of a simultaneous method for determining polycyclic aromatic compounds and alkylated isomers in biota. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 277-287.	1.5	37
24	Absorption of polycyclic aromatic hydrocarbons by a highly absorptive polymeric medium. <i>Chemosphere</i> , 2018, 201, 441-447.	8.2	1
25	Microfluidic Devices for Studying the Effect of Netrin-1 on Neutrophil and Breast Cancer Cell Migration. <i>Advanced Biology</i> , 2018, 2, 1700178.	3.0	3
26	Structure and hydrodynamics of a DNA G-quadruplex with a cytosine bulge. <i>Nucleic Acids Research</i> , 2018, 46, 5319-5331.	14.5	44
27	Enumeration of the constitutional isomers of environmentally relevant substituted polycyclic aromatic compounds. <i>Chemosphere</i> , 2018, 202, 9-16.	8.2	13
28	Interaction studies of a protein and carbohydrate system using an integrated approach: a case study of the mini-granin-heparin system. <i>European Biophysics Journal</i> , 2018, 47, 751-759.	2.2	1
29	Comprehensive two-dimensional gas chromatography high-resolution mass spectrometry for the analysis of substituted and unsubstituted polycyclic aromatic compounds in environmental samples. <i>Journal of Chromatography A</i> , 2018, 1579, 106-114.	3.7	9
30	Reductive power of the archaea right-handed coiled coil nanotube (RHCC-NT) and incorporation of mercury clusters inside protein cages. <i>Journal of Structural Biology</i> , 2018, 203, 281-287.	2.8	5
31	Impact of G-quadruplex loop conformation in the PITX1 mRNA on protein and small molecule interaction. <i>Biochemical and Biophysical Research Communications</i> , 2017, 487, 274-280.	2.1	6
32	Human DDX21 binds and unwinds RNA guanine quadruplexes. <i>Nucleic Acids Research</i> , 2017, 45, 6656-6668.	14.5	79
33	Ultrasonic Characterization of Amyloid-Like Ovalbumin Aggregation. <i>ACS Omega</i> , 2017, 2, 4612-4620.	3.5	9
34	Archaea S-layer nanotube from a "black smoker" in complex with cyclo-octasulfur (<math>S_8</math>) rings. <i>Proteins: Structure, Function and Bioinformatics</i> , 2017, 85, 2209-2216.	2.6	13
35	Inhibition of glycosylation on a camelid antibody uniquely affects its FcγRI binding activity. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 96, 428-439.	4.0	11
36	Nanoscale Assembly of High-Mobility Group AT-Hook 2 Protein with DNA Replication Fork. <i>Biophysical Journal</i> , 2017, 113, 2609-2620.	0.5	16

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37	Cover Image, Volume 85, Issue 12. Proteins: Structure, Function and Bioinformatics, 2017, 85, C1.	2.6	0
38	Dramatic and concerted conformational changes enable rhodocetin to block $\alpha_2\beta_1$ integrin selectively. PLoS Biology, 2017, 15, e2001492.	5.6	15
39	Maltose-Binding Protein (MBP), a Secretion-Enhancing Tag for Mammalian Protein Expression Systems. PLoS ONE, 2016, 11, e0152386.	2.5	46
40	Structural decoding of netrin-4 reveals a regulatory function towards mature basement membranes. Nature Communications, 2016, 7, 13515.	12.8	74
41	Dynamic light scattering: a practical guide and applications in biomedical sciences. Biophysical Reviews, 2016, 8, 409-427.	3.2	1,132
42	Structural Decoding of the Netrin-1/UNC5 Interaction and its Therapeutical Implications in Cancers. Cancer Cell, 2016, 29, 173-185.	16.8	80
43	RNA Helicase Associated with AU-rich Element (RHAU/DHX36) Interacts with the 3' Tail of the Long Non-coding RNA BC200 (BCYRN1). Journal of Biological Chemistry, 2016, 291, 5355-5372.	3.4	38
44	Biophysical analysis of a lethal laminin alpha-1 mutation reveals altered self-interaction. Matrix Biology, 2016, 49, 93-105.	3.6	8
45	Platinum (IV) coiled coil nanotubes selectively kill human glioblastoma cells. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 913-925.	3.3	17
46	Association of a Novel <i>ACTA1</i> Mutation With a Dominant Progressive Scapulo-peroneal Myopathy in an Extended Family. JAMA Neurology, 2015, 72, 689.	9.0	35
47	The $\beta$ -Lactamase Gene Regulator AmpR Is a Tetramer That Recognizes and Binds the d-Ala-d-Ala Motif of Its Repressor UDP-N-acetylmuramic Acid (MurNAc)-pentapeptide. Journal of Biological Chemistry, 2015, 290, 2630-2643.	3.4	77
48	Biophysical Characterization of G-Quadruplex Recognition in the PITX1 mRNA by the Specificity Domain of the Helicase RHAU. PLoS ONE, 2015, 10, e0144510.	2.5	19
49	The RNA helicase RHAU (DHX36) suppresses expression of the transcription factor PITX1. Nucleic Acids Research, 2014, 42, 3346-3361.	14.5	71
50	Collagen XXII binds to collagen-binding integrins via the novel motifs GLQGER and GFKGER. Biochemical Journal, 2014, 459, 217-227.	3.7	26
51	Recessive and dominant mutations in COL12A1 cause a novel EDS/myopathy overlap syndrome in humans and mice. Human Molecular Genetics, 2014, 23, 2339-2352.	2.9	107
52	Molecular dissection of Wnt3a-Frizzled8 interaction reveals essential and modulatory determinants of Wnt signaling activity. BMC Biology, 2014, 12, 44.	3.8	24
53	Human-Cytovirus-Apoptin Triggers Mitochondrial Death Pathway—Nur77 is Required for Apoptosis Triggering. Neoplasia, 2014, 16, 679-693.	5.3	35
54	Structural elucidation of full-length nidogen and the laminin-nidogen complex in solution. Matrix Biology, 2014, 33, 60-67.	3.6	32

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55	The C-terminal cytoplasmic portion of the NhaP2 cation-proton antiporter from <i>Vibrio cholerae</i> affects its activity and substrate affinity. <i>Molecular and Cellular Biochemistry</i> , 2014, 389, 51-58.	3.1	9
56	Apoptins: selective anticancer agents. <i>Trends in Molecular Medicine</i> , 2014, 20, 519-528.	6.7	35
57	C1q-tumour necrosis factor-related protein 8 (<scp>CTRP8</scp>) is a novel interaction partner of relaxin receptor <scp>RXFP1</scp> in human brain cancer cells. <i>Journal of Pathology</i> , 2013, 231, 466-479.	4.5	33
58	Binding of G-quadruplexes to the N-terminal Recognition Domain of the RNA Helicase Associated with AU-rich Element (RHAU). <i>Journal of Biological Chemistry</i> , 2013, 288, 35014-35027.	3.4	53
59	Recognition of viral RNA stem-loops by the tandem double-stranded RNA binding domains of PKR. <i>Rna</i> , 2013, 19, 333-344.	3.5	27
60	The RNA helicase RHAU (DHX36) unwinds a G4-quadruplex in human telomerase RNA and promotes the formation of the P1 helix template boundary. <i>Nucleic Acids Research</i> , 2012, 40, 4110-4124.	14.5	128
61	Epidermal Growth Factor Cytoplasmic Domain Affects ErbB Protein Degradation by the Lysosomal and Ubiquitin-Proteasome Pathway in Human Cancer Cells. <i>Neoplasia</i> , 2012, 14, 396-IN5.	5.3	23
62	Determination of a molecular shape for netrin-4 from hydrodynamic and small angle X-ray scattering measurements. <i>Matrix Biology</i> , 2012, 31, 135-140.	3.6	20
63	Origin and mechanism of thermal insensitivity in mole hemoglobins: a test of the additional chloride binding site hypothesis. <i>Journal of Experimental Biology</i> , 2012, 215, 518-525.	1.7	11
64	Modeling of Molecular Interaction between Apoptin, BCR-Abl and CrkL - An Alternative Approach to Conventional Rational Drug Design. <i>PLoS ONE</i> , 2012, 7, e28395.	2.5	25
65	Site Specific Cleavage Mediated by MMPs Regulates Function of Agrin. <i>PLoS ONE</i> , 2012, 7, e43669.	2.5	22
66	The Pentameric Channel of COMPcc in Complex with Different Fatty Acids. <i>PLoS ONE</i> , 2012, 7, e48130.	2.5	15
67	QM and QM/MM Studies of Uranyl Fluorides in the Gas and Aqueous Phases and in the Hydrophobic Cavities of Tetrabrachion. <i>Inorganic Chemistry</i> , 2011, 50, 3141-3152.	4.0	22
68	Evidence for Self-Association of a Miniaturized Version of Agrin from Hydrodynamic and Small-Angle X-ray Scattering Measurements. <i>Journal of Physical Chemistry B</i> , 2011, 115, 11286-11293.	2.6	5
69	Examination of the Discrepancy between Size Estimates for Ovalbumin from Small-Angle X-ray Scattering and Other Physicochemical Measurements. <i>Journal of Physical Chemistry B</i> , 2011, 115, 10725-10729.	2.6	10
70	Kinematic of action Proposed reaction mechanism of glutamate-1-semialdehyde aminomutase at an atomic level. <i>Biochemical and Biophysical Research Communications</i> , 2011, 413, 572-576.	2.1	5
71	Monoclonal antibodies reveal the alteration of the rhodocetin structure upon Î±2Î²1 integrin binding. <i>Biochemical Journal</i> , 2011, 440, 1-11.	3.7	10
72	T-shaped arrangement of the recombinant agrin G3 IgG Fc protein. <i>Protein Science</i> , 2011, 20, 931-940.	7.6	16

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73	Relaxin Enhances the Collagenolytic Activity and <i>In Vitro</i> Invasiveness by Upregulating Matrix Metalloproteinases in Human Thyroid Carcinoma Cells. <i>Molecular Cancer Research</i> , 2011, 9, 673-687.	3.4	35
74	Molecular basis of a novel adaptation to hypoxic-hypercapnia in a strictly fossorial mole. <i>BMC Evolutionary Biology</i> , 2010, 10, 214.	3.2	36
75	Substitutions in woolly mammoth hemoglobin confer biochemical properties adaptive for cold tolerance. <i>Nature Genetics</i> , 2010, 42, 536-540.	21.4	86
76	Absence of a catalytic water confers resistance to the neurotoxin gabaculine. <i>FASEB Journal</i> , 2010, 24, 404-414.	0.5	8
77	Contiguous <i>O</i> -Galactosylation of 4- <i>R</i> -Hydroxy-L-proline Residues Forms Very Stable Polyproline II Helices. <i>Journal of the American Chemical Society</i> , 2010, 132, 5036-5042.	13.7	49
78	The many types of interhelical ionic interactions in coiled coils – An overview. <i>Journal of Structural Biology</i> , 2010, 170, 192-201.	2.8	17
79	Nano-structure of the laminin $\hat{1}^3$ -1 short arm reveals an extended and curved multidomain assembly. <i>Matrix Biology</i> , 2010, 29, 565-572.	3.6	34
80	Apoptin, a tumor-selective killer. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009, 1793, 1335-1342.	4.1	90
81	The use of coiled-coil proteins in drug delivery systems. <i>European Journal of Pharmacology</i> , 2009, 625, 101-107.	3.5	55
82	An interdomain disulfide bridge links the NtA and first FS domain in agrin. <i>Protein Science</i> , 2009, 18, 2421-2428.	7.6	8
83	Vimentin Coil 1A – A Molecular Switch Involved in the Initiation of Filament Elongation. <i>Journal of Molecular Biology</i> , 2009, 390, 245-261.	4.2	90
84	The $\hat{1}^2\hat{1}^1$ integrin-specific antagonist rhodocetin is a cruciform, heterotetrameric molecule. <i>FASEB Journal</i> , 2009, 23, 2917-2927.	0.5	33
85	Utilization of a right-handed coiled-coil protein from archaeobacterium <i>Staphylothermus marinus</i> as a carrier for cisplatin. <i>Anticancer Research</i> , 2009, 29, 11-8.	1.1	167
86	$^1\text{H}$ , $^{13}\text{C}$ , and $^{15}\text{N}$ chemical shift assignments for the N-terminal extracellular domain of T-cadherin. <i>Journal of Biomolecular NMR</i> , 2007, 38, 179-179.	2.8	1
87	Structure/function analysis of spinalin, a spine protein of <i>Hydra</i> nematocysts. <i>FEBS Journal</i> , 2006, 273, 3230-3237.	4.7	15
88	Tracking down the different forms of nuclear actin. <i>Trends in Cell Biology</i> , 2006, 16, 391-396.	7.9	92
89	Intersubunit signaling in glutamate-1-semialdehyde-aminomutase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 13688-13693.	7.1	34
90	Ataxin-10 Interacts with O-Linked $\hat{2}$ -N-Acetylglucosamine Transferase in the Brain. <i>Journal of Biological Chemistry</i> , 2006, 281, 20263-20270.	3.4	39

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91	Activation of Muscle-specific Receptor Tyrosine Kinase and Binding to Dystroglycan Are Regulated by Alternative mRNA Splicing of Agrin. <i>Journal of Biological Chemistry</i> , 2006, 281, 36835-36845.	3.4	42
92	Structural and functional diversity generated by alternative mRNA splicing. <i>Trends in Biochemical Sciences</i> , 2005, 30, 515-521.	7.5	103
93	Structure of zinc-independent sorbitol dehydrogenase from <i>Rhodobacter sphaeroides</i> at 2.4 Å resolution. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2005, 61, 374-379.	2.5	28
94	Favourable mediation of crystal contacts by cocoamidopropylbetaine (CAPB). <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2005, 61, 477-480.	2.5	13
95	Structure and laminin-binding specificity of the NtA domain expressed in eukaryotic cells. <i>Matrix Biology</i> , 2005, 23, 507-513.	3.6	11
96	Proteolytic E-cadherin activation followed by solution NMR and X-ray crystallography. <i>EMBO Journal</i> , 2004, 23, 1699-1708.	7.8	138
97	Modulation of Agrin Function by Alternative Splicing and Ca <sup>2+</sup> Binding. <i>Structure</i> , 2004, 12, 503-515.	3.3	45
98	Identification of Functionally Important Residues in the Pyridoxal-5'-Phosphate-Dependent Catalytic Antibody 15A9. <i>Biochemistry</i> , 2004, 43, 6612-6619.	2.5	2
99	Design and Crystal Structure of Bacteriophage T4 Mini-Fibrin NCCF. <i>Journal of Molecular Biology</i> , 2004, 339, 927-935.	4.2	23
100	Collagen Stabilization at Atomic Level. <i>Structure</i> , 2003, 11, 339-346.	3.3	76
101	Mapping of the laminin-binding site of the N-terminal agrin domain (NtA). <i>EMBO Journal</i> , 2003, 22, 529-536.	7.8	36
102	Nucleation and propagation of the collagen triple helix in single-chain and trimerized peptides: transition from third to first order kinetics. <i>Journal of Molecular Biology</i> , 2002, 317, 459-470.	4.2	91
103	Pyridoxal-5'-phosphate-dependent catalytic antibodies. <i>Journal of Immunological Methods</i> , 2002, 269, 99-110.	1.4	7
104	Storage function of cartilage oligomeric matrix protein: the crystal structure of the coiled-coil domain in complex with vitamin D3. <i>EMBO Journal</i> , 2002, 21, 5960-5968.	7.8	59
105	The laminin-binding domain of agrin is structurally related to N-TIMP-1. <i>Nature Structural Biology</i> , 2001, 8, 705-709.	9.7	41
106	Coiled coils: a highly versatile protein folding motif. <i>Trends in Cell Biology</i> , 2001, 11, 82-88.	7.9	935
107	Crystal structure of a naturally occurring parallel right-handed coiled coil tetramer. <i>Nature Structural Biology</i> , 2000, 7, 772-776.	9.7	155
108	Toward a High-Resolution Structure of Phospholamban: Design of Soluble Transmembrane Domain Mutants. <i>Biochemistry</i> , 2000, 39, 6825-6831.	2.5	25

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109	Crystal Structure of Three Consecutive Laminin-type Epidermal Growth Factor-like (LE) Modules of Laminin $\beta$ 1 Chain Harboring the Nidogen Binding Site. <i>Journal of Molecular Biology</i> , 1996, 257, 644-657.	4.2	123