

Julian A Tanner

List of Publications by Year in descending order

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88
papers

3,899
citations

109321

35
h-index

133252

59
g-index

90
all docs

90
docs citations

90
times ranked

5834
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolutionary connection between the catalytic subunits of DNA-dependent RNA polymerases and eukaryotic RNA-dependent RNA polymerases and the origin of RNA polymerases. BMC Structural Biology, 2003, 3, 1.	2.3	218
2	The Severe Acute Respiratory Syndrome (SARS) Coronavirus NTPase/Helicase Belongs to a Distinct Class of 5â€² to 3â€² Viral Helicases. Journal of Biological Chemistry, 2003, 278, 39578-39582.	3.4	183
3	G-quadruplex DNA Aptamers and their Ligands: Structure, Function and Application. Current Pharmaceutical Design, 2012, 18, 2014-2026.	1.9	156
4	The Adamantane-Derived Bananins Are Potent Inhibitors of the Helicase Activities and Replication of SARS Coronavirus. Chemistry and Biology, 2005, 12, 303-311.	6.0	145
5	Identification of Novel Small-Molecule Inhibitors of Severe Acute Respiratory Syndrome-Associated Coronavirus by Chemical Genetics. Chemistry and Biology, 2004, 11, 1293-1299.	6.0	141
6	Differential Inhibitory Activities and Stabilisation of DNA Aptamers against the SARS Coronavirus Helicase. ChemBioChem, 2008, 9, 3037-3045.	2.6	109
7	Structural basis for discriminatory recognition of <i>Plasmodium</i> lactate dehydrogenase by a DNA aptamer. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15967-15972.	7.1	109
8	Expression and characterization of a histidine-rich protein, Hpn: potential for Ni ²⁺ storage in Helicobacter pylori. Biochemical Journal, 2006, 393, 285-293.	3.7	107
9	Aptamer Bioinformatics. International Journal of Molecular Sciences, 2017, 18, 2516.	4.1	106
10	A portable microfluidic Aptamer-Tethered Enzyme Capture (APTEC) biosensor for malaria diagnosis. Biosensors and Bioelectronics, 2018, 100, 591-596.	10.1	101
11	Highly restricted expression of Cre recombinase in cerebellar Purkinje cells. Genesis, 2004, 40, 45-51.	1.6	94
12	A proteomic approach for the identification of bismuth-binding proteins in Helicobacter pylori. Journal of Biological Inorganic Chemistry, 2007, 12, 831-842.	2.6	93
13	Influence of FcγRIIA and MBL polymorphisms on severe acute respiratory syndrome. Tissue Antigens, 2005, 66, 291-296.	1.0	86
14	Bismuth Complexes Inhibit the SARS Coronavirus. Angewandte Chemie - International Edition, 2007, 46, 6464-6468.	13.8	86
15	Ultrasensitive antibody-aptamer plasmonic biosensor for malaria biomarker detection in whole blood. Nature Communications, 2020, 11, 6134.	12.8	85
16	Inhibition of SARS coronavirus helicase by bismuth complexes. Chemical Communications, 2007, , 4413.	4.1	82
17	A DNA aptamer recognising a malaria protein biomarker can function as part of a DNA origami assembly. Scientific Reports, 2016, 6, 21266.	3.3	82
18	Development of Aptamer-Based Point-of-Care Diagnostic Devices for Malaria Using Three-Dimensional Printing Rapid Prototyping. ACS Sensors, 2016, 1, 420-426.	7.8	82

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19	Aptamer-based electrochemical biosensor for highly sensitive and selective malaria detection with adjustable dynamic response range and reusability. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 235-243.	7.8	82
20	Rapid labeling of intracellular His-tagged proteins in living cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2948-2953.	7.1	80
21	Aptamer-Mediated Inhibition of <i>Mycobacterium tuberculosis</i> Polyphosphate Kinase 2. <i>Biochemistry</i> , 2011, 50, 3261-3271.	2.5	78
22	Arabidopsis membrane-associated acyl-CoA-binding protein ACBP1 is involved in stem cuticle formation. <i>Journal of Experimental Botany</i> , 2014, 65, 5473-5483.	4.8	74
23	Synthetic Peptides outside the Spike Protein Heptad Repeat Regions as Potent Inhibitors of Sars-Associated Coronavirus. <i>Antiviral Therapy</i> , 2005, 10, 393-403.	1.0	63
24	Evolution of abiotic cubane chemistries in a nucleic acid aptamer allows selective recognition of a malaria biomarker. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 16790-16798.	7.1	59
25	Kif5b controls the localization of myofibril components for their assembly and linkage to the myotendinous junctions. <i>Development (Cambridge)</i> , 2013, 140, 617-626.	2.5	53
26	<i>Arabidopsis</i> cytosolic acyl-CoA-binding proteins ACBP4, ACBP5 and ACBP6 have overlapping but distinct roles in seed development. <i>Bioscience Reports</i> , 2014, 34, e00165.	2.4	53
27	The Adaptor Function of TRAPPC2 in Mammalian TRAPPs Explains TRAPPC2-Associated SEDT and TRAPPC9-Associated Congenital Intellectual Disability. <i>PLoS ONE</i> , 2011, 6, e23350.	2.5	52
28	APTEC: aptamer-tethered enzyme capture as a novel rapid diagnostic test for malaria. <i>Chemical Communications</i> , 2015, 51, 4697-4700.	4.1	49
29	Aptamer-mediated Plasmodium-specific diagnosis of malaria. <i>Biochimie</i> , 2018, 145, 131-136.	2.6	49
30	Measuring luteinising hormone pulsatility with a robotic aptamer-enabled electrochemical reader. <i>Nature Communications</i> , 2019, 10, 852.	12.8	49
31	ULK1 phosphorylates Sec23A and mediates autophagy-induced inhibition of ER-to-Golgi traffic. <i>BMC Cell Biology</i> , 2017, 18, 22.	3.0	48
32	An aptamer-enabled DNA nanobox for protein sensing. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 1161-1168.	3.3	46
33	Post-translational modification of heterologously expressed <i>Streptomyces</i> type II polyketide synthase acyl carrier proteins. <i>FEBS Letters</i> , 1997, 405, 267-272.	2.8	45
34	Non-associative phase separation in an evaporating droplet as a model for prebiotic compartmentalization. <i>Nature Communications</i> , 2021, 12, 3194.	12.8	44
35	TRAPPC9 Mediates the Interaction between p150Glued and COPII Vesicles at the Target Membrane. <i>PLoS ONE</i> , 2012, 7, e29995.	2.5	43
36	The Two PPX-GppA Homologues from <i>Mycobacterium tuberculosis</i> Have Distinct Biochemical Activities. <i>PLoS ONE</i> , 2012, 7, e42561.	2.5	37

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37	Recent progress in the study of the intracellular functions of diadenosine polyphosphates. <i>Drug Development Research</i> , 2001, 52, 249-259.	2.9	34
38	DNA Aptamers for the Functionalisation of DNA Origami Nanostructures. <i>Genes</i> , 2018, 9, 571.	2.4	32
39	Aptamer Affinity Maturation by Resampling and Microarray Selection. <i>Analytical Chemistry</i> , 2016, 88, 6981-6985.	6.5	31
40	Identification of a DNA aptamer that inhibits sclerostin's antagonistic effect on Wnt signalling. <i>Biochemical Journal</i> , 2011, 434, 493-501.	3.7	30
41	Implementation of an interprofessional team-based learning program involving seven undergraduate health and social care programs from two universities, and students' evaluation of their readiness for interprofessional learning. <i>BMC Medical Education</i> , 2017, 17, 221.	2.4	30
42	Aptamer-Enabled Nanomaterials for Therapeutics, Drug Targeting and Imaging. <i>Cells</i> , 2022, 11, 159.	4.1	30
43	Polyethylene glycol-mediated blocking and monolayer morphology of an electrochemical aptasensor for malaria biomarker detection in human serum. <i>Bioelectrochemistry</i> , 2020, 136, 107589.	4.6	29
44	Tertiary structure prediction of SARS coronavirus helicase. <i>Biochemical and Biophysical Research Communications</i> , 2006, 343, 1101-1104.	2.1	26
45	Specific and sensitive detection of <i>Plasmodium falciparum</i> lactate dehydrogenase by DNA-scaffolded silver nanoclusters combined with an aptamer. <i>Analyst</i> , 2017, 142, 800-807.	3.5	26
46	Aptamer-Mediated Protein Molecular Recognition Driving a DNA Tweezer Nanomachine. <i>Advanced Biology</i> , 2017, 1, e1600006.	3.0	26
47	Transgenic Mice Expressing Cre-Recombinase Specifically in Retinal Rod Bipolar Neurons. , 2005, 46, 3515.		24
48	Diverse assessment and active student engagement sustain deep learning: A comparative study of outcomes in two parallel introductory biochemistry courses. <i>Biochemistry and Molecular Biology Education</i> , 2014, 42, 474-479.	1.2	24
49	Characterization of a small acyl-CoA-binding protein (ACBP) from <i>Helianthus annuus</i> L. and its binding affinities. <i>Plant Physiology and Biochemistry</i> , 2016, 102, 141-150.	5.8	24
50	Microfluidic Technology for Nucleic Acid Aptamer Evolution and Application. <i>Advanced Biology</i> , 2019, 3, e1900012.	3.0	24
51	Cold-inducible RNA binding protein is required for the expression of adhesion molecules and embryonic cell movement in <i>Xenopus laevis</i> . <i>Biochemical and Biophysical Research Communications</i> , 2006, 344, 416-424.	2.1	23
52	The duality of LysU, a catalyst for both Ap4A and Ap3A formation. <i>FEBS Journal</i> , 2006, 273, 3534-3544.	4.7	23
53	Functional asymmetry in the lysyl-tRNA synthetase explored by molecular dynamics, free energy calculations and experiment. <i>BMC Structural Biology</i> , 2003, 3, 5.	2.3	22
54	Genome-Wide Haplotype Association Mapping in Mice Identifies a Genetic Variant in <i>CER1</i> Associated With BMD and Fracture in Southern Chinese Women. <i>Journal of Bone and Mineral Research</i> , 2009, 24, 1013-1021.	2.8	21

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55	Biochemical consequences of sedlin mutations that cause spondyloepiphyseal dysplasia tarda. <i>Biochemical Journal</i> , 2009, 423, 233-242.	3.7	20
56	Chemical Modifications for a Next Generation of Nucleic Acid Aptamers. <i>ChemBioChem</i> , 2022, 23, .	2.6	20
57	Isothermal Titration Calorimetry Reveals a Zinc Ion as an Atomic Switch in the Diadenosine Polyphosphates. <i>Journal of Biological Chemistry</i> , 2002, 277, 3073-3078.	3.4	19
58	Selection and Characterization of a DNA Aptamer Specifically Targeting Human HECT Ubiquitin Ligase WWP1. <i>International Journal of Molecular Sciences</i> , 2018, 19, 763.	4.1	19
59	Randomly positioned gold nanoparticles as fluorescence enhancers in apta-immunosensor for malaria test. <i>Mikrochimica Acta</i> , 2021, 188, 88.	5.0	18
60	Oligonucleotide Functionalised Microbeads: Indispensable Tools for High-Throughput Aptamer Selection. <i>Molecules</i> , 2015, 20, 21298-21312.	3.8	17
61	Multi-target electrochemical malaria aptasensor on flexible multielectrode arrays for detection in malaria parasite blood samples. <i>Sensors and Actuators B: Chemical</i> , 2021, 349, 130812.	7.8	17
62	Delineating charge and capacitance transduction in system-integrated graphene-based BioFETs used as aptasensors for malaria detection. <i>Biosensors and Bioelectronics</i> , 2022, 208, 114219.	10.1	17
63	An electrochemical aptamer-based biosensor targeting Plasmodium falciparum histidine-rich protein II for malaria diagnosis. <i>Biosensors and Bioelectronics</i> , 2021, 192, 113472.	10.1	16
64	Quantitative single-step purification of dinucleoside polyphosphates. <i>Analytical Biochemistry</i> , 2003, 316, 135-138.	2.4	14
65	Inorganic polyphosphate triggers upregulation of interleukin 11 in human osteoblast-like SaOS-2 cells. <i>Biochemical and Biophysical Research Communications</i> , 2016, 479, 766-771.	2.1	14
66	Label-Free Quantitative Proteomics Reveals Survival Mechanisms Developed by Hypertrophic Chondrocytes under ER Stress. <i>Journal of Proteome Research</i> , 2016, 15, 86-99.	3.7	14
67	Aptamer Display on Diverse DNA Polyhedron Supports. <i>Molecules</i> , 2018, 23, 1695.	3.8	14
68	Inorganic polyphosphate controls cyclophilin B-mediated collagen folding in osteoblast-like cells. <i>FEBS Journal</i> , 2020, 287, 4500-4524.	4.7	14
69	Investigation into the Interactions between Diadenosine 5',5'-bisphosphate and Two Proteins: Molecular Chaperone GroEL and cAMP Receptor Protein. <i>Biochemistry</i> , 2006, 45, 3095-3106.	2.5	13
70	Molecular dynamics simulations of LysRS: An asymmetric state. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 62, 649-662.	2.6	12
71	Diadenosine Polyphosphate Analog Controls Postsynaptic Excitation in CA3-CA1 Synapses via a Nitric Oxide-Dependent Mechanism. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 318, 579-588.	2.5	12
72	Long-chain polyphosphate in osteoblast matrix vesicles: Enrichment and inhibition of mineralization. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019, 1863, 199-209.	2.4	12

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73	Dual-Transducer Malaria Aptasensor Combining Electrochemical Impedance and Surface Plasmon Polariton Detection on Gold Nanohole Arrays. <i>ChemElectroChem</i> , 2020, 7, 4594-4600.	3.4	12
74	On the mechanisms of bananin activity against severe acute respiratory syndrome coronavirus. <i>FEBS Journal</i> , 2011, 278, 383-389.	4.7	10
75	A novel fluorescence probe of <i>Plasmodium vivax</i> lactate dehydrogenase based on adenosine monophosphate protected bimetallic nanoclusters. <i>Talanta</i> , 2020, 213, 120850.	5.5	9
76	Characterization and function of a sunflower (<i>Helianthus annuus</i> L.) Class II acyl-CoA-binding protein. <i>Plant Science</i> , 2020, 300, 110630.	3.6	6
77	A collaborative two-stage examination in biomedical sciences: Positive impact on feedback and peer collaboration. <i>Biochemistry and Molecular Biology Education</i> , 2021, 49, 69-79.	1.2	6
78	A multiparametric fluorescence assay for screening aptamer-protein interactions based on microbeads. <i>Scientific Reports</i> , 2022, 12, 2961.	3.3	6
79	Selective Phenome Growth Adapted $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1" \rangle \langle \text{mml:mi} \rangle \text{N} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{K} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Model: A Novel Landscape to Represent Aptamer Ligand Binding. <i>Complexity</i> , 2017, 2017, 1-12.	1.6	5
80	Double-Resonant Nanostructured Gold Surface for Multiplexed Detection. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 6417-6427.	8.0	5
81	The Three S's for Aptamer-Mediated Control of DNA Nanostructure Dynamics: Shape, Self-Complementarity, and Spatial Flexibility. <i>ChemBioChem</i> , 2018, 19, 1900-1906.	2.6	4
82	Selection and characterization of DNA aptamers inhibiting a druggable target of osteoarthritis, ADAMTS-5. <i>Biochimie</i> , 2022, 201, 168-176.	2.6	4
83	Bismuth Complexes Inhibit the SARS Coronavirus. <i>Angewandte Chemie</i> , 2007, 119, 6584-6588.	2.0	1
84	FRET-Mediated Observation of Protein-Triggered Conformational Changes in DNA Nanostructures. <i>Methods in Molecular Biology</i> , 2021, 2208, 69-80.	0.9	1
85	Effect of a non-hydrolyzable analog of diadenosine polyphosphates on NMDA-mediated currents in isolated pyramidal neurons of the rat hippocampus. <i>Neurophysiology</i> , 2006, 38, 169-174.	0.3	0
86	The softer art of enzymology. <i>BioEssays</i> , 2012, 34, 83-84.	2.5	0
87	DNA Nanomachines: Aptamer-Mediated Protein Molecular Recognition Driving a DNA Tweezer Nanomachine (<i>Adv. Biosys.</i> 1(2017)). <i>Advanced Biology</i> , 2017, 1, .	3.0	0
88	Designing aptamer-enabled DNA polyhedra using paper origami. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, , 116723.	11.4	0