Patrick M Schaeffer

List of Publications by Year
in descending order

45	1,242	394421	377865
papers	citations	19 h-index	34 g-index

48	48	48	1200
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Rise of the terminator protein tus: A versatile tool in the biotechnologist's toolbox. Analytica Chimica Acta, 2022, 1213, 339946.	5.4	2
2	Delineation of the Ancestral Tus-Dependent Replication Fork Trap. International Journal of Molecular Sciences, 2021, 22, 13533.	4.1	4
3	A new bivalent fluorescent fusion protein for differential Cu(II) and Zn(II) ion detection in aqueous solution. Analytica Chimica Acta, 2020, 1101, 120-128.	5.4	13
4	High-Throughput Differential Scanning Fluorimetry of GFP-Tagged Proteins. Methods in Molecular Biology, 2020, 2089, 69-85.	0.9	10
5	Electrophoretic Mobility Shift Assays with GFP-Tagged Proteins (GFP-EMSA). Methods in Molecular Biology, 2020, 2089, 159-166.	0.9	1
6	Defining specific allergens for improved component-resolved diagnosis of shrimp allergy in adults. Molecular Immunology, 2019, 112, 330-337.	2.2	12
7	Selective protein unfolding: a universal mechanism of action for the development of irreversible inhibitors. Chemical Communications, 2018, 54, 1738-1741.	4.1	11
8	Negative regulators of cell death pathways in cancer: perspective on biomarkers and targeted therapies. Apoptosis: an International Journal on Programmed Cell Death, 2018, 23, 93-112.	4.9	44
9	Functional characterisation of Burkholderia pseudomallei biotin protein ligase: A toolkit for anti-melioidosis drug development. Microbiological Research, 2017, 199, 40-48.	5.3	7
10	A green fluorescent protein-based assay for high-throughput ligand-binding studies of a mycobacterial biotin protein ligase. Microbiological Research, 2017, 205, 35-39.	5.3	6
11	IgE reactivity to shrimp allergens in infants and their crossâ€reactivity to house dust mite. Pediatric Allergy and Immunology, 2017, 28, 703-707.	2.6	25
12	Green fluorescent protein-based assays for high-throughput functional characterization and ligand-binding studies of biotin protein ligase. Analytical Methods, 2016, 8, 418-424.	2.7	9
13	In-gel detection of biotinâ€“protein conjugates with a green fluorescent streptavidin probe. Analytical Methods, 2015, 7, 2087-2092.	2.7	20
14	Tus-Ter-lock immuno-PCR assays for the sensitive detection of tropomyosin-specific IgE antibodies. Bioanalysis, 2014, 6, 465-476.	1.5	25
15	Dissecting the salt dependence of the Tusâ€“Ter proteinâ€“DNA complexes by high-throughput differential scanning fluorimetry of a GFP-tagged Tus. Molecular BioSystems, 2013, 9, 3146.	2.9	17
16	A GFP-tagged nucleoprotein-based aggregation assay for anti-influenza drug discovery and antibody development. Analyst, The, 2013, 138, 6073.	3.5	4
17	ELISA and immunoâ€“polymerase chain reaction assays for the sensitive detection of melioidosis. Diagnostic Microbiology and Infectious Disease, 2013, 75, 135-138.	1.8	11
18	Improved diagnosis of melioidosis using a 2-dimensional immunoarray. Diagnostic Microbiology and Infectious Disease, 2013, 77, 209-215.	1.8	9

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19	Differential Tusâ€“Ter binding and lock formation: implications for DNA replication termination in Escherichia coli. Molecular BioSystems, 2012, 8, 2783.	2.9	20
20	A universal immuno-PCR platform for comparative and ultrasensitive quantification of dual affinity-tagged proteins in complex matrices. Analyst, The, 2012, 137, 5193.	3.5	10
21	Rapid determination of protein stability and ligand binding by differential scanning fluorimetry of GFP-tagged proteins. RSC Advances, 2012, 2, 11892.	3.6	30
22	A polyplex qPCR-based binding assay for proteinâ€“DNA interactions. Analyst, The, 2012, 137, 4111.	3.5	11
23	Combining RNAâ€“DNA swapping and quantitative polymerase chain reaction for the detection of influenza A nucleoprotein. Analytical Biochemistry, 2012, 420, 121-126.	2.4	15
24	IgG-detection devices for the Tus-Ter-lock immuno-PCR diagnostic platform. Analyst, The, 2011, 136, 4815.	3.5	24
25	Development of a protease activity assay using heat-sensitive Tusâ€“GFP fusion protein substrates. Analytical Biochemistry, 2011, 415, 126-133.	2.4	10
26	Ultrasensitive detection of antibodies using a new Tusâ€“Ter-lock immunoPCR system. Molecular BioSystems, 2010, 6, 1173.	2.9	27
27	Quantitative determination of protein stability and ligand binding using a green fluorescent protein reporter system. Molecular BioSystems, 2010, 6, 1285.	2.9	57
28	Synthesis and Applications of Covalent Protein-DNA Conjugates. Australian Journal of Chemistry, 2009, 62, 1328.	0.9	9
29	Site-specific covalent attachment of DNA to proteins using a photoactivatable Tusâ€“Ter complex. Chemical Communications, 2009, , 3050.	4.1	25
30	Single-molecule studies of fork dynamics in Escherichia coli DNA replication. Nature Structural and Molecular Biology, 2008, 15, 170-176.	8.2	136
31	Multiple oligomeric forms ofEscherichia coli DnaB helicase revealed by electrospray ionisation mass spectrometry. Rapid Communications in Mass Spectrometry, 2007, 21, 132-140.	1.5	8
32	Proteomic dissection of DNA polymerization. Expert Review of Proteomics, 2006, 3, 197-211.	3.0	11
33	Kinetic and Crystallographic Analysis of MutantEscherichia coliAminopeptidase P:Â Insights into Substrate Recognition and the Mechanism of Catalysisâ€. Biochemistry, 2006, 45, 964-975.	2.5	41
34	A Molecular Mousetrap Determines Polarity of Termination of DNA Replication in E. coli. Cell, 2006, 125, 1309-1319.	28.9	114
35	Monomeric solution structure of the helicase-binding domain of Escherichia coli DnaG primase. FEBS Journal, 2006, 273, 4997-5009.	4.7	25
36	Helicase binding to DnaI exposes a cryptic DNA-binding site during helicase loading in Bacillus subtilis. Nucleic Acids Research, 2006, 34, 5247-5258.	14.5	50

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37	A molecular mousetrap determines polarity of replication fork arrest at Tusâ€•Ter sites in E. coli. FASEB Journal, 2006, 20, A911.	0.5	0
38	Proteinâ€Šâ€“â€ŠProtein Interactions in the Eubacterial Replisome. IUBMB Life, 2005, 57, 5-12.	3.4	74
39	Crystal and Solution Structures of the Helicase-binding Domain of Escherichia coli Primase. Journal of Biological Chemistry, 2005, 280, 11495-11504.	3.4	62
40	Integron-associated Mobile Gene Cassettes Code for Folded Proteins: The Structure of Bal32a, a New Member of the Adaptable Î±+Î² Barrel Family. Journal of Molecular Biology, 2005, 346, 1229-1241.	4.2	20
41	Optimization of an Escherichia coli system for cell-free synthesis of selectively 15N-labelled proteins for rapid analysis by NMR spectroscopy. FEBS Journal, 2004, 271, 4084-4093.	0.2	87
42	Expression, purification, crystallization, and NMR studies of the helicase interaction domain of Escherichia coli DnaG primase. Protein Expression and Purification, 2004, 33, 304-310.	1.3	11
43	Molecular tectonics II: Synthesis of molecular sheets by self-assembly of complementary molecular units in the solid state. Tetrahedron Letters, 1996, 37, 1405-1408.	1.4	41
44	Molecular Tectonics: Self-Assembly of Charged Molecular Tectons into One- and Two-Dimensional Solids. , 1996, , 129-142.		3
45	A molecular approach to solid-state synthesis: prediction and synthesis of self-assembled infinite rods. Journal of the Chemical Society Chemical Communications, 1994, , 2135.	2.0	69