

Patrick M Schaeffer

List of Publications by Year in descending order

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45
papers

1,242
citations

394421

19
h-index

377865

34
g-index

48
all docs

48
docs citations

48
times ranked

1200
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-molecule studies of fork dynamics in Escherichia coli DNA replication. Nature Structural and Molecular Biology, 2008, 15, 170-176.	8.2	136
2	A Molecular Mousetrap Determines Polarity of Termination of DNA Replication in E. coli. Cell, 2006, 125, 1309-1319.	28.9	114
3	Optimization of an Escherichia coli system for cell-free synthesis of selectively ¹⁵ N-labelled proteins for rapid analysis by NMR spectroscopy. FEBS Journal, 2004, 271, 4084-4093.	0.2	87
4	Protein-Protein Interactions in the Eubacterial Replisome. IUBMB Life, 2005, 57, 5-12.	3.4	74
5	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
6	Crystal and Solution Structures of the Helicase-binding Domain of Escherichia coli Primase. Journal of Biological Chemistry, 2005, 280, 11495-11504.	3.4	62
7	Quantitative determination of protein stability and ligand binding using a green fluorescent protein reporter system. Molecular BioSystems, 2010, 6, 1285.	2.9	57
8	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
9	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
10	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
11	Kinetic and Crystallographic Analysis of Mutant Escherichia coli Aminopeptidase P: Insights into Substrate Recognition and the Mechanism of Catalysis. Biochemistry, 2006, 45, 964-975.	2.5	41
12	Rapid determination of protein stability and ligand binding by differential scanning fluorimetry of GFP-tagged proteins. RSC Advances, 2012, 2, 11892.	3.6	30
13	Ultrasensitive detection of antibodies using a new Tus-Ter-lock immunoPCR system. Molecular BioSystems, 2010, 6, 1173.	2.9	27
14	Monomeric solution structure of the helicase-binding domain of Escherichia coli DnaG primase. FEBS Journal, 2006, 273, 4997-5009.	4.7	25
15	Site-specific covalent attachment of DNA to proteins using a photoactivatable Tus-Ter complex. Chemical Communications, 2009, , 3050.	4.1	25
16	Tus-Ter-lock immuno-PCR assays for the sensitive detection of tropomyosin-specific IgE antibodies. Bioanalysis, 2014, 6, 465-476.	1.5	25
17	IgE reactivity to shrimp allergens in infants and their cross-reactivity to house dust mite. Pediatric Allergy and Immunology, 2017, 28, 703-707.	2.6	25
18	IgG-detection devices for the Tus-Ter-lock immuno-PCR diagnostic platform. Analyst, The, 2011, 136, 4815.	3.5	24

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19	Integron-associated Mobile Gene Cassettes Code for Folded Proteins: The Structure of Bal32a, a New Member of the Adaptable β -Barrel Family. <i>Journal of Molecular Biology</i> , 2005, 346, 1229-1241.	4.2	20
20	Differential Tus-Ter binding and lock formation: implications for DNA replication termination in <i>Escherichia coli</i> . <i>Molecular BioSystems</i> , 2012, 8, 2783.	2.9	20
21	In-gel detection of biotin-protein conjugates with a green fluorescent streptavidin probe. <i>Analytical Methods</i> , 2015, 7, 2087-2092.	2.7	20
22	Dissecting the salt dependence of the Tus-Ter protein-DNA complexes by high-throughput differential scanning fluorimetry of a GFP-tagged Tus. <i>Molecular BioSystems</i> , 2013, 9, 3146.	2.9	17
23	Combining RNA-DNA swapping and quantitative polymerase chain reaction for the detection of influenza A nucleoprotein. <i>Analytical Biochemistry</i> , 2012, 420, 121-126.	2.4	15
24	A new bivalent fluorescent fusion protein for differential Cu(II) and Zn(II) ion detection in aqueous solution. <i>Analytica Chimica Acta</i> , 2020, 1101, 120-128.	5.4	13
25	Defining specific allergens for improved component-resolved diagnosis of shrimp allergy in adults. <i>Molecular Immunology</i> , 2019, 112, 330-337.	2.2	12
26	Expression, purification, crystallization, and NMR studies of the helicase interaction domain of <i>Escherichia coli</i> DnaG primase. <i>Protein Expression and Purification</i> , 2004, 33, 304-310.	1.3	11
27	Proteomic dissection of DNA polymerization. <i>Expert Review of Proteomics</i> , 2006, 3, 197-211.	3.0	11
28	A polyplex qPCR-based binding assay for protein-DNA interactions. <i>Analyst, The</i> , 2012, 137, 4111.	3.5	11
29	ELISA and immuno-polymerase chain reaction assays for the sensitive detection of melioidosis. <i>Diagnostic Microbiology and Infectious Disease</i> , 2013, 75, 135-138.	1.8	11
30	Selective protein unfolding: a universal mechanism of action for the development of irreversible inhibitors. <i>Chemical Communications</i> , 2018, 54, 1738-1741.	4.1	11
31	Development of a protease activity assay using heat-sensitive Tus-GFP fusion protein substrates. <i>Analytical Biochemistry</i> , 2011, 415, 126-133.	2.4	10
32	A universal immuno-PCR platform for comparative and ultrasensitive quantification of dual affinity-tagged proteins in complex matrices. <i>Analyst, The</i> , 2012, 137, 5193.	3.5	10
33	High-Throughput Differential Scanning Fluorimetry of GFP-Tagged Proteins. <i>Methods in Molecular Biology</i> , 2020, 2089, 69-85.	0.9	10
34	Synthesis and Applications of Covalent Protein-DNA Conjugates. <i>Australian Journal of Chemistry</i> , 2009, 62, 1328.	0.9	9
35	Improved diagnosis of melioidosis using a 2-dimensional immunoarray. <i>Diagnostic Microbiology and Infectious Disease</i> , 2013, 77, 209-215.	1.8	9
36	Green fluorescent protein-based assays for high-throughput functional characterization and ligand-binding studies of biotin protein ligase. <i>Analytical Methods</i> , 2016, 8, 418-424.	2.7	9

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37	Multiple oligomeric forms of <i>Escherichia coli</i> DnaB helicase revealed by electrospray ionisation mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 132-140.	1.5	8
38	Functional characterisation of <i>Burkholderia pseudomallei</i> biotin protein ligase: A toolkit for anti-melioidosis drug development. <i>Microbiological Research</i> , 2017, 199, 40-48.	5.3	7
39	A green fluorescent protein-based assay for high-throughput ligand-binding studies of a mycobacterial biotin protein ligase. <i>Microbiological Research</i> , 2017, 205, 35-39.	5.3	6
40	A GFP-tagged nucleoprotein-based aggregation assay for anti-influenza drug discovery and antibody development. <i>Analyst</i> , 2013, 138, 6073.	3.5	4
41	Delineation of the Ancestral Tus-Dependent Replication Fork Trap. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13533.	4.1	4
42	Molecular Tectonics: Self-Assembly of Charged Molecular Tectons into One- and Two-Dimensional Solids. , 1996, , 129-142.		3
43	Rise of the terminator protein tus: A versatile tool in the biotechnologist's toolbox. <i>Analytica Chimica Acta</i> , 2022, 1213, 339946.	5.4	2
44	Electrophoretic Mobility Shift Assays with GFP-Tagged Proteins (GFP-EMSA). <i>Methods in Molecular Biology</i> , 2020, 2089, 159-166.	0.9	1
45	A molecular mousetrap determines polarity of replication fork arrest at Tus sites in <i>E. coli</i> . <i>FASEB Journal</i> , 2006, 20, A911.	0.5	0