

# Simon G Patching

## List of Publications by Year in descending order

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62  
papers

2,116  
citations

361045

20  
h-index

243296

44  
g-index

69  
all docs

69  
docs citations

69  
times ranked

3073  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure and Molecular Mechanism of a Nucleobase-“Cation”-Symport-1 Family Transporter. <i>Science</i> , 2008, 322, 709-713.	6.0	347
2	Surface plasmon resonance spectroscopy for characterisation of membrane protein-ligand interactions and its potential for drug discovery. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 43-55.	1.4	340
3	Glucose Transporters at the Blood-Brain Barrier: Function, Regulation and Gateways for Drug Delivery. <i>Molecular Neurobiology</i> , 2017, 54, 1046-1077.	1.9	241
4	Transcriptomic and biochemical analyses identify a family of chlorhexidine efflux proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 20254-20259.	3.3	138
5	Molecular mechanism of ligand recognition by membrane transport protein, Mhp1. <i>EMBO Journal</i> , 2014, 33, 1831-1844.	3.5	79
6	The nucleoside transport proteins, NupC and NupG, from <i>Escherichia coli</i> : specific structural motifs necessary for the binding of ligands. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 462.	1.5	66
7	Ligand- and drug-binding studies of membrane proteins revealed through circular dichroism spectroscopy. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 34-42.	1.4	56
8	Purification and properties of the <i>Escherichia coli</i> nucleoside transporter NupG, a paradigm for a major facilitator transporter sub-family. <i>Molecular Membrane Biology</i> , 2004, 21, 323-336.	2.0	49
9	Overcoming challenges for amplified expression of recombinant proteins using <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 2018, 144, 12-18.	0.6	49
10	Development of Antibiofilm Therapeutics Strategies to Overcome Antimicrobial Drug Resistance. <i>Microorganisms</i> , 2022, 10, 303.	1.6	42
11	Substrate Affinities for Membrane Transport Proteins Determined by <sup>13</sup> C Cross-Polarization Magic-Angle Spinning Nuclear Magnetic Resonance Spectroscopy. <i>Journal of the American Chemical Society</i> , 2004, 126, 3072-3080.	6.6	40
12	Allantoin transport protein, Pucl, from <i>Bacillus subtilis</i> : evolutionary relationships, amplified expression, activity and specificity. <i>Microbiology (United Kingdom)</i> , 2016, 162, 823-836.	0.7	40
13	2-Aminotetralones: Novel inhibitors of MurA and MurZ. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 1730-1734.	1.0	32
14	Solid-State NMR Spectroscopy Detects Interactions between Tryptophan Residues of the <i>E. coli</i> Sugar Transporter GalP and the $\beta$ -Anomer of the $\alpha$ -Glucose Substrate. <i>Journal of the American Chemical Society</i> , 2008, 130, 1236-1244.	6.6	30
15	Interactions of the intact FsrC membrane histidine kinase with its pheromone ligand GBAP revealed through synchrotron radiation circular dichroism. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 1595-1602.	1.4	28
16	Efflux proteins at the blood-brain barrier: review and bioinformatics analysis. <i>Xenobiotica</i> , 2018, 48, 506-532.	0.5	28
17	Comprehensive analysis of the numbers, lengths and amino acid compositions of transmembrane helices in prokaryotic, eukaryotic and viral integral membrane proteins of high-resolution structure. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018, 36, 443-464.	2.0	25
18	Active membrane transport and receptor proteins from bacteria. <i>Biochemical Society Transactions</i> , 2005, 33, 867-872.	1.6	22

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19	Hydrodynamics of the VanA-type VanS histidine kinase: an extended solution conformation and first evidence for interactions with vancomycin. <i>Scientific Reports</i> , 2017, 7, 46180.	1.6	22
20	Benzothioxalone derivatives as novel inhibitors of UDP-N-acetylglucosamine enolpyruvyl transferases (MurA and MurZ). <i>Journal of Antimicrobial Chemotherapy</i> , 2010, 65, 2566-2573.	1.3	21
21	Interactions of the intact FsrC membrane histidine kinase with the tricyclic peptideinhibitor siamycin I revealed through synchrotron radiation circular dichroism. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 444-447.	1.3	19
22	Relative substrate affinities of wild-type and mutant forms of the <i>Escherichia coli</i> sugar transporter GalP determined by solid-state NMR. <i>Molecular Membrane Biology</i> , 2008, 25, 474-484.	2.0	18
23	NMR structures of polytopic integral membrane proteins. <i>Molecular Membrane Biology</i> , 2011, 28, 370-397.	2.0	18
24	Recent developments in nucleobase cation symporter-1 (NCS1) family transport proteins from bacteria, archaea, fungi and plants. <i>Journal of Biosciences</i> , 2018, 43, 797-815.	0.5	18
25	Low <sup>13</sup> C-Background for NMR-Based Studies of Ligand Binding Using <sup>13</sup> C-Depleted Glucose as Carbon Source for Microbial Growth: <sup>13</sup> C-Labeled Glucose and <sup>13</sup> C-Forskolin Binding to the Galactose-H <sup>+</sup> Symport Protein GalP in <i>Escherichia coli</i> . <i>Journal of the American Chemical Society</i> , 2004, 126, 86-87.	6.6	17
26	Characterisation of the AACSA Family <i>Escherichia coli</i> Glutamate/Aspartate-Proton Symporter GltP Using Computational, Chemical, Biochemical and Biophysical Methods. <i>Journal of Membrane Biology</i> , 2017, 250, 145-162.	1.0	17
27	Deuterated detergents for structural and functional studies of membrane proteins: Properties, chemical synthesis and applications. <i>Molecular Membrane Biology</i> , 2015, 32, 139-155.	2.0	16
28	The economical synthesis of [ <sup>2</sup> ε- <sup>13</sup> C, 1,3- <sup>15</sup> N <sub>2</sub> ]uridine; preliminary conformational studies by solid state NMR. <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 2057-2062.	1.5	15
29	Probing metal ion substrate-binding to the <i>E. coli</i> ZitB exporter in native membranes by solid state NMR. <i>Molecular Membrane Biology</i> , 2008, 25, 683-690.	2.0	15
30	Solid-state NMR structures of integral membrane proteins. <i>Molecular Membrane Biology</i> , 2015, 32, 156-178.	2.0	15
31	Purification of bacterial membrane sensor kinases and biophysical methods for determination of their ligand and inhibitor interactions. <i>Biochemical Society Transactions</i> , 2016, 44, 810-823.	1.6	14
32	Roles of facilitative glucose transporter GLUT1 in [ <sup>18</sup> F]FDG positron emission tomography (PET) imaging of human diseases. <i>Journal of Diagnostic Imaging in Therapy</i> , 2015, 2, 30-102.	0.2	14
33	NMR-Active Nuclei for Biological and Biomedical Applications. <i>Journal of Diagnostic Imaging in Therapy</i> , 2016, 3, 7-48.	0.2	14
34	A systematic approach to the amplified expression, functional characterization and purification of inositol transporters from <i>Bacillus subtilis</i> . <i>Molecular Membrane Biology</i> , 2013, 30, 3-14.	2.0	13
35	Nutritional and lifestyle changes required for minimizing the recovery period in home quarantined COVID-19 patients of Punjab, Pakistan. <i>Food Science and Nutrition</i> , 2021, 9, 5036-5059.	1.5	13
36	Bacterial Multidrug Efflux Proteins: A Major Mechanism of Antimicrobial Resistance. <i>Current Drug Targets</i> , 2018, 20, 16-28.	1.0	12

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37	Probing the contacts of a low-affinity substrate with a membrane-embedded transport protein using <sup>1</sup> H- <sup>13</sup> C cross-polarisation magic-angle spinning solid-state NMR. <i>Molecular Membrane Biology</i> , 2013, 30, 129-137.	2.0	10
38	TROSY NMR with a 52 kDa sugar transport protein and the binding of a small-molecule inhibitor. <i>Molecular Membrane Biology</i> , 2014, 31, 131-140.	2.0	10
39	Amino acid composition analysis of secondary transport proteins from <i>Escherichia coli</i> with relation to functional classification, ligand specificity and structure. <i>Journal of Biomolecular Structure and Dynamics</i> , 2015, 33, 2205-2220.	2.0	10
40	Amino acid composition analysis of human secondary transport proteins and implications for reliable membrane topology prediction. <i>Journal of Biomolecular Structure and Dynamics</i> , 2017, 35, 929-949.	2.0	10
41	Synthesis of highly pure <sup>14</sup> C-labelled DL-allantoin and <sup>13</sup> C NMR analysis of labelling integrity. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2009, 52, 401-404.	0.5	9
42	Multiplex polymerase chain reaction detection of Shiga toxin genes and antibiotic sensitivity of <i>Escherichia coli</i> O157:H7 isolated from beef meat in Quetta, Pakistan. <i>Journal of Food Safety</i> , 2018, 38, e12540.	1.1	9
43	Structural analysis of uniformly <sup>13</sup> C-labelled solids from selective angle measurements at rotational resonance. <i>Journal of Magnetic Resonance</i> , 2009, 199, 242-246.	1.2	8
44	Efficient syntheses of <sup>13</sup> C- and <sup>14</sup> C-labelled 5-benzyl and 5-indolylmethyl L-hydantoins. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2011, 54, 110-114.	0.5	8
45	Synthesis of uniformly deuterated <sup>13</sup> C-dodecyl- <sup>15</sup> N-maltoside ( <sup>13</sup> C <sub>39</sub> -DDM) for solubilization of membrane proteins in TROSY NMR experiments. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2014, 57, 737-743.	0.5	8
46	Ligand orientation in a membrane-embedded receptor site revealed by solid-state NMR with paramagnetic relaxation enhancement. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 2664-2668.	1.5	6
47	Mhp1, the Na <sup>+</sup> -Hydantoin Membrane Transport Protein. , 2013, , 1514-1521.		4
48	Nucleoside transporters in PET imaging of proliferating cancer cells using 3-deoxy-3-[ <sup>18</sup> F]fluoro-L-thymidine. <i>Journal of Diagnostic Imaging in Therapy</i> , 2018, 5, 1-13.	0.2	4
49	Prevalence and molecular characterization of multidrug-resistant <i>Escherichia coli</i> O157:H7 from dairy milk in the Peshawar region of Pakistan. <i>Journal of Food Safety</i> , 2021, 41, e12941.	1.1	4
50	13th IIS(UK group) symposium. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2004, 47, 299-334.	0.5	3
51	Equipping a Research Scale Fermentation Laboratory for Production of Membrane Proteins. , 0, , 37-67.		3
52	Recent developments in nucleobase cation symporter-1 (NCS1) family transport proteins from bacteria, archaea, fungi and plants. <i>Journal of Biosciences</i> , 2018, 43, 797-815.	0.5	3
53	Synthesis, NMR analysis and applications of isotope-labelled hydantoins. <i>Journal of Diagnostic Imaging in Therapy</i> , 2017, 4, 3-26.	0.2	2
54	Prevalence of <i>Salmonella</i> spp. in chicken meat from Quetta retail outlets and typing through multiplex PCR. <i>Romanian Biotechnological Letters</i> , 2019, 24, 271-279.	0.5	2

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55	In silico identification and structure function analysis of a putative coclaurine N-methyltransferase from <i>Aristolochia fimbriata</i> . <i>Computational Biology and Chemistry</i> , 2020, 85, 107201.	1.1	1
56	Predominance of Central Asian strain (ST 26) in <i>Mycobacterium tuberculosis</i> isolates from Balochistan by spoligotyping. <i>Journal of Infection in Developing Countries</i> , 2019, 13, 619-625.	0.5	1
57	Screening for hepatitis b and c viral infections among pregnant women attending the Bolan Medical Complex Hospital and Sandeman Provincial Civil Hospital Quetta, Pakistan.. <i>The Professional Medical Journal</i> , 2020, 27, 1328-1334.	0.0	1
58	A Solid State NMR Approach to the Structure-Activity Relationship of the Nucleoside Transport Protein NupC of <i>Escherichia coli</i> . <i>Biochemical Society Transactions</i> , 2000, 28, A89-A89.	1.6	0
59	Structure and molecular mechanism of a nucleobase-cation-symport-1 family transporter. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2009, 65, s29-s30.	0.3	0
60	Structural genomics of bacterial membrane transport proteins. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2009, 65, s28-s28.	0.3	0
61	Cloning, Amplified Expression and Bioinformatics Analysis of a Putative Nucleobase Cation Symporter-1 (NCS-1) Protein From <i>Rhodococcus erythropolis</i> . <i>BioScientific Review</i> , 2021, 3, .	0.0	0
62	Spermidine Binding to the <i>Acetivobacter baumannii</i> Efflux Protein Acel Observed by Near-UV Synchrotron Radiation Circular Dichroism Spectroscopy. <i>Radiation</i> , 2022, 2, 228-233.	0.6	0