

Simon J Powis

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47
papers

2,492
citations

25
h-index

49
g-index

51
ext. papers

2,826
ext. citations

8.4
avg, IF

4.7
L-index

#	Paper	IF	Citations
47	Real-time imaging of cellular forces using optical interference. <i>Nature Communications</i> , 2021 , 12, 3552	17.4	0
46	Deep Learning Enabled Laser Speckle Wavemeter with a High Dynamic Range. <i>Laser and Photonics Reviews</i> , 2020 , 14, 2000120	8.3	20
45	Quantitative proteomic changes in LPS-activated monocyte-derived dendritic cells: A SWATH-MS study. <i>Scientific Reports</i> , 2019 , 9, 4343	4.9	4
44	Does Natural Killer Cell Deficiency (NKD) Increase the Risk of Cancer? NKD May Increase the Risk of Some Virus Induced Cancer. <i>Frontiers in Immunology</i> , 2019 , 10, 1703	8.4	16
43	Measuring Synthesis and Degradation of MHC Class I Molecules. <i>Methods in Molecular Biology</i> , 2019 , 1988, 83-100	1.4	1
42	Label-free optical hemogram of granulocytes enhanced by artificial neural networks. <i>Optics Express</i> , 2019 , 27, 13706-13720	3.3	8
41	High-content screening image dataset and quantitative image analysis of Salmonella infected human cells. <i>BMC Research Notes</i> , 2019 , 12, 808	2.3	3
40	exploits HLA-B27 and host unfolded protein responses to promote intracellular replication. <i>Annals of the Rheumatic Diseases</i> , 2019 , 78, 74-82	2.4	26
39	Non-obstructive intracellular nanolasers. <i>Nature Communications</i> , 2018 , 9, 4817	17.4	44
38	Multimodal discrimination of immune cells using a combination of Raman spectroscopy and digital holographic microscopy. <i>Scientific Reports</i> , 2017 , 7, 43631	4.9	29
37	Long-term imaging of cellular forces with high precision by elastic resonator interference stress microscopy. <i>Nature Cell Biology</i> , 2017 , 19, 864-872	23.4	39
36	The major histocompatibility complex class I immunopeptidome of extracellular vesicles. <i>Journal of Biological Chemistry</i> , 2017 , 292, 17084-17092	5.4	6
35	Lasing in Live Mitotic and Non-Phagocytic Cells by Efficient Delivery of Microresonators. <i>Scientific Reports</i> , 2017 , 7, 40877	4.9	25
34	Skin colour changes during experimentally-induced sickness. <i>Brain, Behavior, and Immunity</i> , 2017 , 60, 312-318	16.6	32
33	CCCTC-binding factor recruitment to the early region of the human papillomavirus 18 genome regulates viral oncogene expression. <i>Journal of Virology</i> , 2015 , 89, 4770-85	6.6	36
32	Lasing within Live Cells Containing Intracellular Optical Microresonators for Barcode-Type Cell Tagging and Tracking. <i>Nano Letters</i> , 2015 , 15, 5647-52	11.5	119
31	The use of wavelength modulated Raman spectroscopy in label-free identification of T lymphocyte subsets, natural killer cells and dendritic cells. <i>PLoS ONE</i> , 2015 , 10, e0125158	3.7	29

30	Endoplasmic reticulum degradation-enhancing β -mannosidase-like protein 1 targets misfolded HLA-B27 dimers for endoplasmic reticulum-associated degradation. <i>Arthritis and Rheumatology</i> , 2014 , 66, 2976-88	9.5	25
29	Regulation of exosome release from mammary epithelial and breast cancer cells - a new regulatory pathway. <i>European Journal of Cancer</i> , 2014 , 50, 1025-34	7.5	159
28	Monitoring the Rab27 associated exosome pathway using nanoparticle tracking analysis. <i>Experimental Cell Research</i> , 2013 , 319, 1706-1713	4.2	50
27	Nanoparticle tracking analysis monitors microvesicle and exosome secretion from immune cells. <i>Immunology</i> , 2012 , 136, 192-7	7.8	201
26	Antigen Processing and Presentation by MHC Class I, II, and Nonclassical Molecules 2012 , 29-46		0
25	The oxidative folding and misfolding of human leukocyte antigen-b27. <i>Antioxidants and Redox Signaling</i> , 2011 , 15, 669-84	8.4	6
24	Expression of MHC class I dimers and ERAP1 in an ankylosing spondylitis patient cohort. <i>Immunology</i> , 2011 , 133, 379-85	7.8	30
23	Suppression of MHC class I surface expression by calreticulin β P-domain in a calreticulin deficient cell line. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2010 , 1803, 544-52	4.9	5
22	Novel MHC class I structures on exosomes. <i>Journal of Immunology</i> , 2009 , 183, 1884-91	5.3	52
21	Rapid acidification and alkylation: redox analysis of the MHC class I pathway. <i>Journal of Immunological Methods</i> , 2009 , 340, 81-5	2.5	3
20	Biochemical features of HLA-B27 and antigen processing. <i>Advances in Experimental Medicine and Biology</i> , 2009 , 649, 210-6	3.6	7
19	Pathogen evasion strategies for the major histocompatibility complex class I assembly pathway. <i>Immunology</i> , 2008 , 124, 1-12	7.8	31
18	Induction of HLA-B27 heavy chain homodimer formation after activation in dendritic cells. <i>Arthritis Research and Therapy</i> , 2008 , 10, R100	5.7	22
17	Major histocompatibility complex class I-ERp57-tapasin interactions within the peptide-loading complex. <i>Journal of Biological Chemistry</i> , 2007 , 282, 17587-93	5.4	38
16	ERp57 interacts with conserved cysteine residues in the MHC class I peptide-binding groove. <i>FEBS Letters</i> , 2007 , 581, 1988-92	3.8	13
15	Lack of tyrosine 320 impairs spontaneous endocytosis and enhances release of HLA-B27 molecules. <i>Journal of Immunology</i> , 2006 , 176, 2942-9	5.3	21
14	Mutational analysis of the oxidoreductase ERp57 reveals the importance of the two central residues in the redox motif. <i>FEBS Letters</i> , 2006 , 580, 1897-902	3.8	11
13	CLIP-region mediated interaction of Invariant chain with MHC class I molecules. <i>FEBS Letters</i> , 2006 , 580, 3112-6	3.8	12

12	Different MHC class I heavy chains compete with each other for folding independently of beta 2-microglobulin and peptide. <i>Journal of Immunology</i> , 2005 , 174, 925-33	5.3	10
11	Formation of HLA-B27 homodimers and their relationship to assembly kinetics. <i>Journal of Biological Chemistry</i> , 2004 , 279, 8895-902	5.4	83
10	Competition for access to the rat major histocompatibility complex class I peptide-loading complex reveals optimization of peptide cargo in the absence of transporter associated with antigen processing (TAP) association. <i>Journal of Biological Chemistry</i> , 2004 , 279, 16077-82	5.4	10
9	Characterization of the ERp57-Tapasin complex by rapid cellular acidification and thiol modification. <i>Antioxidants and Redox Signaling</i> , 2003 , 5, 375-9	8.4	23
8	Assembly and export of MHC class I peptide ligands. <i>Current Opinion in Immunology</i> , 2003 , 15, 75-81	7.8	84
7	Interactions formed by individually expressed TAP1 and TAP2 polypeptide subunits. <i>Immunology</i> , 2002 , 106, 182-9	7.8	36
6	The oxidoreductase ERp57 efficiently reduces partially folded in preference to fully folded MHC class I molecules. <i>EMBO Journal</i> , 2002 , 21, 2655-63	13	83
5	HLA-E is expressed on trophoblast and interacts with CD94/NKG2 receptors on decidual NK cells. <i>European Journal of Immunology</i> , 2000 , 30, 1623-31	6.1	317
4	A role for the thiol-dependent reductase ERp57 in the assembly of MHC class I molecules. <i>Current Biology</i> , 1998 , 8, 713-6	6.3	129
3	Major histocompatibility complex class I molecules interact with both subunits of the transporter associated with antigen processing, TAP1 and TAP2. <i>European Journal of Immunology</i> , 1997 , 27, 2744-7	6.1	34
2	Effect of polymorphism of an MHC-linked transporter on the peptides assembled in a class I molecule. <i>Nature</i> , 1992 , 357, 211-5	50.4	318
1	Proteasome subunits encoded by the major histocompatibility complex are not essential for antigen presentation. <i>Nature</i> , 1992 , 360, 174-7	50.4	241