

Stefan J Marciniak

List of Publications by Year in descending order

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Version: 2024-02-01

116
papers

13,240
citations

71102

41
h-index

24982

109
g-index

125
all docs

125
docs citations

125
times ranked

23135
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	9.1	3,122
2	CHOP induces death by promoting protein synthesis and oxidation in the stressed endoplasmic reticulum. <i>Genes and Development</i> , 2004, 18, 3066-3077.	5.9	1,648
3	Endoplasmic Reticulum Stress Signaling in Disease. <i>Physiological Reviews</i> , 2006, 86, 1133-1149.	28.8	833
4	Targeted gene correction of α 1-antitrypsin deficiency in induced pluripotent stem cells. <i>Nature</i> , 2011, 478, 391-394.	27.8	635
5	Paneth cells as a site of origin for intestinal inflammation. <i>Nature</i> , 2013, 503, 272-276.	27.8	605
6	Modeling inherited metabolic disorders of the liver using human induced pluripotent stem cells. <i>Journal of Clinical Investigation</i> , 2010, 120, 3127-3136.	8.2	534
7	Endoplasmic reticulum dysfunction in neurological disease. <i>Lancet Neurology</i> , The, 2013, 12, 105-118.	10.2	396
8	Endoplasmic Reticulum Stress in Malignancy. <i>Cancer Cell</i> , 2014, 25, 563-573.	16.8	384
9	Cytoprotection by pre-emptive conditional phosphorylation of translation initiation factor 2. <i>EMBO Journal</i> , 2004, 23, 169-179.	7.8	337
10	The unfolded protein response governs integrity of the haematopoietic stem-cell pool during stress. <i>Nature</i> , 2014, 510, 268-272.	27.8	292
11	CHOP/GADD153 is a mediator of apoptotic death in substantia nigra dopamine neurons in an in vivo neurotoxin model of parkinsonism. <i>Journal of Neurochemistry</i> , 2005, 95, 974-986.	3.9	264
12	COVID-19 and pneumothorax: a multicentre retrospective case series. <i>European Respiratory Journal</i> , 2020, 56, 2002697.	6.7	241
13	Chloroquine Prevents Progression of Experimental Pulmonary Hypertension via Inhibition of Autophagy and Lysosomal Bone Morphogenetic Protein Type II Receptor Degradation. <i>Circulation Research</i> , 2013, 112, 1159-1170.	4.5	227
14	α 1-Antitrypsin deficiency. <i>Nature Reviews Disease Primers</i> , 2016, 2, 16051.	30.5	215
15	Iron Promotes the Toxicity of Amyloid β Peptide by Impeding Its Ordered Aggregation. <i>Journal of Biological Chemistry</i> , 2011, 286, 4248-4256.	3.4	182
16	Pharmacological targeting of endoplasmic reticulum stress in disease. <i>Nature Reviews Drug Discovery</i> , 2022, 21, 115-140.	46.4	162
17	Activation-dependent substrate recruitment by the eukaryotic translation initiation factor 2 kinase PERK. <i>Journal of Cell Biology</i> , 2006, 172, 201-209.	5.2	146
18	A novel monoclonal antibody to characterize pathogenic polymers in liver disease associated with α 1-antitrypsin deficiency. <i>Hepatology</i> , 2010, 52, 1078-1088.	7.3	138

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19	An Optical Technique for Mapping Microviscosity Dynamics in Cellular Organelles. <i>ACS Nano</i> , 2018, 12, 4398-4407.	14.6	125
20	Endoplasmic Reticulum-associated Degradation (ERAD) and Autophagy Cooperate to Degrade Polymerogenic Mutant Serpins. <i>Journal of Biological Chemistry</i> , 2009, 284, 22793-22802.	3.4	123
21	Endoplasmic reticulum polymers impair luminal protein mobility and sensitize to cellular stress in α_1 -antitrypsin deficiency. <i>Hepatology</i> , 2013, 57, 2049-2060.	7.3	108
22	PPP1R15A-mediated dephosphorylation of eIF2 γ is unaffected by Sephin1 or Guanabenz. <i>ELife</i> , 2017, 6, .	6.0	88
23	Single particle trajectories reveal active endoplasmic reticulum luminal flow. <i>Nature Cell Biology</i> , 2018, 20, 1118-1125.	10.3	86
24	Virulence Factors of <i>Pseudomonas aeruginosa</i> Induce Both the Unfolded Protein and Integrated Stress Responses in Airway Epithelial Cells. <i>PLoS Pathogens</i> , 2015, 11, e1004946.	4.7	83
25	Actin dynamics tune the integrated stress response by regulating eukaryotic initiation factor 2 γ dephosphorylation. <i>ELife</i> , 2015, 4, .	6.0	73
26	G-actin provides substrate-specificity to eukaryotic initiation factor 2 γ holophosphatases. <i>ELife</i> , 2015, 4, .	6.0	70
27	Circulating polymers in α_1 -antitrypsin deficiency. <i>European Respiratory Journal</i> , 2014, 43, 1501-1504.	6.7	69
28	Neuroserpin Polymers Activate NF- κ B by a Calcium Signaling Pathway That Is Independent of the Unfolded Protein Response. <i>Journal of Biological Chemistry</i> , 2009, 284, 18202-18209.	3.4	68
29	Cellular Mechanisms of Endoplasmic Reticulum Stress Signaling in Health and Disease. 2. Protein misfolding and ER stress. <i>American Journal of Physiology - Cell Physiology</i> , 2014, 307, C657-C670.	4.6	68
30	Bioactive small molecules reveal antagonism between the integrated stress response and sterol-regulated gene expression. <i>Cell Metabolism</i> , 2005, 2, 361-371.	16.2	66
31	Ambulatory management of primary spontaneous pneumothorax: an open-label, randomised controlled trial. <i>Lancet, The</i> , 2020, 396, 39-49.	13.7	66
32	Diabetes as a disease of endoplasmic reticulum stress. <i>Diabetes/Metabolism Research and Reviews</i> , 2010, 26, 611-621.	4.0	55
33	The endoplasmic reticulum stress marker CHOP predicts survival in malignant mesothelioma. <i>British Journal of Cancer</i> , 2013, 108, 1340-1347.	6.4	53
34	α_1 -Antitrypsin deficiency, chronic obstructive pulmonary disease and the serpinopathies. <i>Clinical Science</i> , 2009, 116, 837-850.	4.3	51
35	Localization of immunoreactive endothelin and proendothelin in the human lung. <i>Pulmonary Pharmacology</i> , 1992, 5, 175-182.	0.6	50
36	Endoplasmic reticulum stress in lung disease. <i>European Respiratory Review</i> , 2017, 26, 170018.	7.1	48

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37	hiPSC hepatocyte model demonstrates the role of unfolded protein response and inflammatory networks in α_1 -antitrypsin deficiency. <i>Journal of Hepatology</i> , 2018, 69, 851-860.	3.7	48
38	Palliative treatment for symptomatic malignant pericardial effusion. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2014, 19, 1019-1026.	1.1	47
39	α_1 -Antitrypsin Deficiency and Autophagy. <i>New England Journal of Medicine</i> , 2010, 363, 1863-1864.	27.0	45
40	The Genetics of Pneumothorax. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019, 199, 1344-1357.	5.6	45
41	A single chain variable fragment intrabody prevents intracellular polymerization of Z α_1 -antitrypsin while allowing its antiprotease activity. <i>FASEB Journal</i> , 2015, 29, 2667-2678.	0.5	44
42	HaloFlippers: A General Tool for the Fluorescence Imaging of Precisely Localized Membrane Tension Changes in Living Cells. <i>ACS Central Science</i> , 2020, 6, 1376-1385.	11.3	44
43	Unravelling the twists and turns of the serpinopathies. <i>FEBS Journal</i> , 2011, 278, 3859-3867.	4.7	42
44	Phosphoproteins in Stress-Induced Disease. <i>Progress in Molecular Biology and Translational Science</i> , 2012, 106, 189-221.	1.7	41
45	Polymers of Z α_1 -antitrypsin are secreted in cell models of disease. <i>European Respiratory Journal</i> , 2016, 47, 1005-1009.	6.7	41
46	Coordinate regulation of eIF2 phosphorylation by dPPP1R15 and dGCN2 is required during development. <i>Journal of Cell Science</i> , 2013, 126, 1406-15.	2.0	39
47	C/EBP homologous protein is necessary for normal osteoblastic function. <i>Journal of Cellular Biochemistry</i> , 2006, 97, 633-640.	2.6	38
48	Impaired tissue growth is mediated by checkpoint kinase 1 (CHK1) in the integrated stress response. <i>Journal of Cell Science</i> , 2010, 123, 2892-2900.	2.0	38
49	Autism-associated R451C mutation in neuroligin3 leads to activation of the unfolded protein response in a PC12 Tet-On inducible system. <i>Biochemical Journal</i> , 2016, 473, 423-434.	3.7	37
50	The Serpinopathies. <i>Methods in Enzymology</i> , 2011, 501, 421-466.	1.0	35
51	p53 and Translation Attenuation Regulate Distinct Cell Cycle Checkpoints during Endoplasmic Reticulum (ER) Stress. <i>Journal of Biological Chemistry</i> , 2013, 288, 7606-7617.	3.4	35
52	The TRiC/CCT Chaperone Is Implicated in Alzheimer's Disease Based on Patient GWAS and an RNAi Screen in $A\beta$ -Expressing <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , 2014, 9, e102985.	2.5	34
53	Increased ERK signalling promotes inflammatory signalling in primary airway epithelial cells expressing Z α_1 -antitrypsin. <i>Human Molecular Genetics</i> , 2014, 23, 929-941.	2.9	34
54	The Integrated Stress Response in Lung Disease. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2014, 50, 1005-1009.	2.9	34

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55	Role of unfolded proteins in lung disease. <i>Thorax</i> , 2021, 76, 92-99.	5.6	34
56	What can naturally occurring mutations tell us about the pathogenesis of COPD?. <i>Thorax</i> , 2009, 64, 359-364.	5.6	33
57	The Unfolded Protein Response in Lung Disease. <i>Proceedings of the American Thoracic Society</i> , 2010, 7, 356-362.	3.5	33
58	Development of a small molecule that corrects misfolding and increases secretion of Z α 1₁-antitrypsin. <i>EMBO Molecular Medicine</i> , 2021, 13, e13167.	6.9	33
59	Characterisation of serpin polymers in vitro and in vivo. <i>Methods</i> , 2011, 53, 255-266.	3.8	31
60	Proteostasis During Cerebral Ischemia. <i>Frontiers in Neuroscience</i> , 2019, 13, 637.	2.8	30
61	Endoplasmic reticulum stress: a key player in human disease. <i>FEBS Journal</i> , 2019, 286, 228-231.	4.7	30
62	Characterising the association of latency with α 1₁-antitrypsin polymerisation using a novel monoclonal antibody. <i>International Journal of Biochemistry and Cell Biology</i> , 2015, 58, 81-91.	2.8	26
63	Mesobank UK: an international mesothelioma bioresource. <i>Thorax</i> , 2016, 71, 380-382.	5.6	26
64	Familial pneumothorax: towards precision medicine. <i>Thorax</i> , 2018, 73, 270-276.	5.6	26
65	α 1₁-antitrypsin deficiency and inflammation. <i>Expert Review of Clinical Immunology</i> , 2011, 7, 243-252.	3.0	22
66	The endoplasmic reticulum remains functionally connected by vesicular transport after its fragmentation in cells expressing Z α 1₁-antitrypsin. <i>FASEB Journal</i> , 2016, 30, 4083-4097.	0.5	22
67	Sterol metabolism regulates neuroserpin polymer degradation in the absence of the unfolded protein response in the dementia FENIB. <i>Human Molecular Genetics</i> , 2013, 22, 4616-4626.	2.9	21
68	The integrated stress response regulates BMP signalling through effects on translation. <i>BMC Biology</i> , 2018, 16, 34.	3.8	21
69	Pulmonary endoplasmic reticulum stress—scars, smoke, and suffocation. <i>FEBS Journal</i> , 2019, 286, 322-341.	4.7	21
70	COVID-19 pneumothorax in the UK: a prospective observational study using the ISARIC WHO clinical characterisation protocol. <i>European Respiratory Journal</i> , 2021, 58, 2100929.	6.7	21
71	New Concepts in Alpha-1 Antitrypsin Deficiency Disease Mechanisms. <i>Annals of the American Thoracic Society</i> , 2016, 13, S289-S296.	3.2	20
72	The integrated stress response in pulmonary disease. <i>European Respiratory Review</i> , 2020, 29, 200184.	7.1	20

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73	Molecular mechanisms in exocytosis. <i>Journal of Membrane Biology</i> , 1995, 146, 113-22.	2.1	19
74	Interactions between N-glycosylation and polymerisation of neuroserpin within the endoplasmic reticulum. <i>FEBS Journal</i> , 2015, 282, 4565-4579.	4.7	19
75	Cargo receptor-assisted endoplasmic reticulum export of pathogenic α 1-antitrypsin polymers. <i>Cell Reports</i> , 2021, 35, 109144.	6.4	19
76	Suppression of $A\beta$ toxicity by puromycin-sensitive aminopeptidase is independent of its proteolytic activity. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2013, 1832, 2115-2126.	3.8	16
77	Use of preclinical models for malignant pleural mesothelioma. <i>Thorax</i> , 2021, 76, 1154-1162.	5.6	16
78	Genetic Susceptibility. <i>Clinics in Chest Medicine</i> , 2014, 35, 29-38.	2.1	15
79	Function of monocytes and monocyte-derived macrophages in α 1-antitrypsin deficiency. <i>European Respiratory Journal</i> , 2015, 45, 365-376.	6.7	15
80	α 1-antitrypsin polymers impose molecular filtration in the endoplasmic reticulum after undergoing phase transition to a solid state. <i>Science Advances</i> , 2022, 8, eabm2094.	10.3	15
81	The effect of lung biopsy on lung function in diffuse lung disease. <i>European Respiratory Journal</i> , 2000, 16, 67-73.	6.7	14
82	Biological basis for novel mesothelioma therapies. <i>British Journal of Cancer</i> , 2021, 125, 1039-1055.	6.4	14
83	Recurrent pneumothorax. <i>Lancet, The</i> , 2011, 377, 1624.	13.7	13
84	Noninterventional statistical comparison of BTS and CHEST guidelines for size and severity in primary pneumothorax. <i>European Respiratory Journal</i> , 2015, 45, 1731-1734.	6.7	13
85	Novel insights into surfactant protein C trafficking revealed through the study of a pathogenic mutant. <i>European Respiratory Journal</i> , 2022, 59, 2100267.	6.7	13
86	A systematic review assessing the existence of pneumothorax-only variants of FLCN. Implications for lifelong surveillance of renal tumours. <i>European Journal of Human Genetics</i> , 2021, 29, 1595-1600.	2.8	12
87	Tissue expression of lactate transporters (MCT1 and MCT4) and prognosis of malignant pleural mesothelioma (brief report). <i>Journal of Translational Medicine</i> , 2020, 18, 341.	4.4	11
88	The SARS-CoV-2 viral load in COVID-19 patients is lower on face mask filters than on nasopharyngeal swabs. <i>Scientific Reports</i> , 2021, 11, 13476.	3.3	10
89	Evaluation of secondary spontaneous pneumothorax with multidetector CT. <i>Clinical Radiology</i> , 2013, 68, 521-528.	1.1	9
90	Linker length affects photostability of protein-targeted sensor of cellular microviscosity. <i>Methods and Applications in Fluorescence</i> , 2019, 7, 044004.	2.3	8

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91	Unravelling the story of protein misfolding in diabetes mellitus. <i>World Journal of Diabetes</i> , 2011, 2, 114.	3.5	8
92	Spontaneous pneumothorax can be associated with TGFBR2 mutation. <i>European Respiratory Journal</i> , 2015, 46, 1832-1835.	6.7	7
93	Inactivation of Ppp1r15a minimises weight gain and insulin resistance during caloric excess in female mice. <i>Scientific Reports</i> , 2019, 9, 2903.	3.3	7
94	Exploring High Aspect Ratio Gold Nanotubes as Cytosolic Agents: Structural Engineering and Uptake into Mesothelioma Cells. <i>Small</i> , 2020, 16, e2003793.	10.0	7
95	Large scale clinical trials: lessons from the COVID-19 pandemic. <i>BMJ Open Respiratory Research</i> , 2022, 9, e001226.	3.0	7
96	Association of nucleoside diphosphate kinase with pancreatic zymogen granules: effects of local GTP generation on granule membrane characteristics. <i>Biochemical Journal</i> , 1996, 316, 99-106.	3.7	6
97	Susceptibility to cellular stress in PS1 mutant N2a cells is associated with mitochondrial defects and altered calcium homeostasis. <i>Scientific Reports</i> , 2020, 10, 6455.	3.3	6
98	Involvement of a phosphoprotein on the zymogen granule membrane in the control of regulated exocytosis in the exocrine pancreas. <i>Journal of Cell Science</i> , 1993, 106 (Pt 2), 663-70.	2.0	6
99	The role of impulse oscillometry in the management of asthma when forced expiratory maneuvers are contraindicated: case series and literature review. <i>Journal of Asthma</i> , 2022, 59, 1577-1583.	1.7	5
100	Time Is of the Essence: A Young Man with Recurrent Pneumothorax and Cavitating Lung Lesions. <i>Annals of the American Thoracic Society</i> , 2018, 15, 988-991.	3.2	4
101	Seventh BHD international symposium: recent scientific and clinical advancement. <i>Oncotarget</i> , 2022, 13, 173-181.	1.8	4
102	Measuring the effects of α -antitrypsin polymerisation on the structure and biophysical properties of the endoplasmic reticulum. <i>Biology of the Cell</i> , 2018, 110, 249-255.	2.0	2
103	Pneumothorax and the biology of Birt-Hogg-Dubé syndrome. <i>Thorax</i> , 2020, 75, 442-443.	5.6	2
104	Combining clinical, radiological and genetic approaches to pneumothorax management. <i>Thorax</i> , 2022, 77, 196-198.	5.6	2
105	A solution scan of societal options to reduce transmission and spread of respiratory viruses: SARS-CoV-2 as a case study. <i>Journal of Biosafety and Biosecurity</i> , 2021, 3, 84-90.	2.8	2
106	Different Cytokine Patterns in BMP2-Mutation-Positive Patients and Patients With Pulmonary Arterial Hypertension Without Mutations and Their Influence on Survival. <i>Chest</i> , 2022, 161, 1651-1656.	0.8	2
107	Intracellular serpins, firewalls and tissue necrosis. <i>Trends in Cell Biology</i> , 2008, 18, 45-47.	7.9	1
108	Modeling Serpin Conformational Diseases in <i>Drosophila melanogaster</i> . <i>Methods in Enzymology</i> , 2011, 499, 227-258.	1.0	1

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109	Endoplasmic Reticulum Stress and the Protein Overload Response in the Serpinopathies. , 2015, , 229-251.		1
110	Endoplasmic Reticulum Stress Signalling During Development. Cancer Drug Discovery and Development, 2019, , 17-47.	0.4	1
111	Basic Aspects of Cellular and Molecular Biology. , 2012, , 7-18.		0
112	Protein misfolding and ER stress in malignancy. Free Radical Biology and Medicine, 2015, 86, S13.	2.9	0
113	Rotor-Based Organelle Viscosity Imaging. Biophysical Journal, 2018, 114, 548a.	0.5	0
114	The Importance of Genetic Factors in the Management of Spontaneous Pneumothorax. Current Pulmonology Reports, 2020, 9, 47-55.	1.3	0
115	Meta-analysis of the association between emphysematous change on thoracic computerized tomography scan and recurrent pneumothorax. QJM - Monthly Journal of the Association of Physicians, 2021, , .	0.5	0
116	Pneumothorax: how to predict, prevent and cure. , 2020, , 193-210.		0