

# Steven F Abcouwer

## List of Publications by Year in descending order

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68  
papers

4,455  
citations

185998

28  
h-index

143772

57  
g-index

71  
all docs

71  
docs citations

71  
times ranked

6349  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Significance of Vascular and Neural Apoptosis to the Pathology of Diabetic Retinopathy. , 2011, 52, 1156.		361
2	TNF- $\alpha$ Signals Through PKC $\zeta$ /NF- $\kappa$ B to Alter the Tight Junction Complex and Increase Retinal Endothelial Cell Permeability. Diabetes, 2010, 59, 2872-2882.	0.3	343
3	Anti-oxidant activities of curcumin and related enones. Bioorganic and Medicinal Chemistry, 2005, 13, 3811-3820.	1.4	256
4	New insights into the mechanisms of diabetic complications: role of lipids and lipid metabolism. Diabetologia, 2019, 62, 1539-1549.	2.9	240
5	Induction of Grp78/BiP by Translational Block. Journal of Biological Chemistry, 2003, 278, 37375-37385.	1.6	238
6	Homocysteine Increases the Expression of Vascular Endothelial Growth Factor by a Mechanism Involving Endoplasmic Reticulum Stress and Transcription Factor ATF4. Journal of Biological Chemistry, 2004, 279, 14844-14852.	1.6	196
7	Tissue-specific metabolic reprogramming drives nutrient flux in diabetic complications. JCI Insight, 2016, 1, e86976.	2.3	188
8	Diabetic retinopathy: loss of neuroretinal adaptation to the diabetic metabolic environment. Annals of the New York Academy of Sciences, 2014, 1311, 174-190.	1.8	186
9	Cloning and analysis of unique human glutaminase isoforms generated by tissue-specific alternative splicing. Physiological Genomics, 1999, 1, 51-62.	1.0	169
10	Activation of NF $\kappa$ B is inhibited by curcumin and related enones. Bioorganic and Medicinal Chemistry, 2006, 14, 2450-2461.	1.4	114
11	The Oxidative Stressor Arsenite Activates Vascular Endothelial Growth Factor mRNA Transcription by an ATF4-dependent Mechanism. Journal of Biological Chemistry, 2005, 280, 20331-20339.	1.6	112
12	Journal of Clinical & Cellular Immunology. Journal of Clinical & Cellular Immunology, 2013, Suppl 1, .	1.5	110
13	Expression of Angiogenic Factors Vascular Endothelial Growth Factor and Interleukin-8/CXCL8 Is Highly Responsive to Ambient Glutamine Availability. Cancer Research, 2004, 64, 4858-4869.	0.4	105
14	Minocycline prevents retinal inflammation and vascular permeability following ischemia-reperfusion injury. Journal of Neuroinflammation, 2013, 10, 149.	3.1	104
15	Mechanisms Governing the Expression of the Enzymes of Glutamine Metabolism—Glutaminase and Glutamine Synthetase. Journal of Nutrition, 2001, 131, 2467S-2474S.	1.3	103
16	Response of VEGF expression to amino acid deprivation and inducers of endoplasmic reticulum stress. Investigative Ophthalmology and Visual Science, 2002, 43, 2791-8.	3.3	91
17	An Integrated Approach to Diabetic Retinopathy Research. JAMA Ophthalmology, 2011, 129, 230.	2.6	83
18	Determinants of glutamine dependence and utilization by normal and tumor-derived breast cell lines. , 1998, 176, 166-178.		80

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19	Ischemiaâ€“Reperfusion Injury Induces Occludin Phosphorylation/Ubiquitination and Retinal Vascular Permeability in a VEGFR-2-Dependent Manner. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 522-531.	2.4	78
20	Molecular and functional analysis of glutamine uptake in human hepatoma and liver-derived cells. <i>American Journal of Physiology - Renal Physiology</i> , 2002, 283, G1062-G1073.	1.6	77
21	Expression of the pro-angiogenic factors vascular endothelial growth factor and interleukin-8/CXCL8 by human breast carcinomas is responsive to nutrient deprivation and endoplasmic reticulum stress. <i>Molecular Cancer</i> , 2004, 3, 4.	7.9	73
22	Aberrant Accumulation of Fibulin-3 in the Endoplasmic Reticulum Leads to Activation of the Unfolded Protein Response and VEGF Expression. , 2005, 46, 3973.		70
23	Effects of Ischemic Preconditioning and Bevacizumab on Apoptosis and Vascular Permeability Following Retinal Ischemiaâ€“Reperfusion Injury. , 2010, 51, 5920.		70
24	Glutamine Deprivation Induces the Expression of GADD45 and GADD153 Primarily by mRNA Stabilization. <i>Journal of Biological Chemistry</i> , 1999, 274, 28645-28651.	1.6	66
25	Glutamine as a Regulator of DNA and Protein Biosynthesis in Human Solid Tumor Cell Lines. <i>Annals of Surgery</i> , 1996, 224, 189-197.	2.1	64
26	Differential Roles of Hyperglycemia and Hypoinsulinemia in Diabetes Induced Retinal Cell Death: Evidence for Retinal Insulin Resistance. <i>PLoS ONE</i> , 2011, 6, e26498.	1.1	62
27	Glucocorticoids Regulate Rat Glutamine Synthetase Expression in a Tissue-Specific Manner. <i>Journal of Surgical Research</i> , 1995, 59, 59-65.	0.8	58
28	MÃ¼ller Cellâ€“Microglia Cross Talk Drives Neuroinflammation in Diabetic Retinopathy. <i>Diabetes</i> , 2017, 66, 261-263.	0.3	46
29	Protective Effect of a GLP-1 Analog on Ischemia-Reperfusion Induced Bloodâ€“Retinal Barrier Breakdown and Inflammation. , 2016, 57, 2584.		41
30	Shared and distinct lipid-lipid interactions in plasma and affected tissues in a diabetic mouse model. <i>Journal of Lipid Research</i> , 2018, 59, 173-183.	2.0	38
31	Inflammatory resolution and vascular barrier restoration after retinal ischemia reperfusion injury. <i>Journal of Neuroinflammation</i> , 2021, 18, 186.	3.1	36
32	Effect of IL-1 $\beta$ on Survival and Energy Metabolism of R28 and RGC-5 Retinal Neurons. , 2008, 49, 5581.		35
33	Vitreous Cytokine Expression and a Murine Model Suggest a Key Role of Microglia in the Inflammatory Response to Retinal Detachment. , 2018, 59, 3767.		34
34	CX3CR1 deficiency accelerates the development of retinopathy in a rodent model of type 1 diabetes. <i>Journal of Molecular Medicine</i> , 2016, 94, 1255-1265.	1.7	32
35	Regulation of glutamine synthetase in human breast carcinoma cells and experimental tumors. <i>Surgery</i> , 1997, 122, 451-464.	1.0	31
36	Effect of dietary glutamate on chemotherapy-induced immunosuppression. <i>Nutrition</i> , 1999, 15, 687-696.	1.1	28

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37	Multiwell <sup>14</sup> CO <sub>2</sub> -Capture Assay for Evaluation of Substrate Oxidation Rates of Cells in Culture. <i>BioTechniques</i> , 1998, 24, 803-808.	0.8	25
38	Insulin-like growth factor 1 rescues R28 retinal neurons from apoptotic death through ERK-mediated BimEL phosphorylation independent of Akt. <i>Experimental Eye Research</i> , 2016, 151, 82-95.	1.2	25
39	mTORC1-Independent Reduction of Retinal Protein Synthesis in Type 1 Diabetes. <i>Diabetes</i> , 2014, 63, 3077-3090.	0.3	24
40	Induction of Cytokine-Induced Neutrophil Chemoattractant (CINC) mRNA in the Lungs of Septic Rats. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1996, 41, 222-230.	1.1	24
41	Molecular regulation of lung endothelial glutamine synthetase expression*. <i>Surgery</i> , 1995, 118, 325-335.	1.0	22
42	Phosphatase control of 4E-BP1 phosphorylation state is central for glycolytic regulation of retinal protein synthesis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015, 309, E546-E556.	1.8	22
43	Glutamine synthetase expression in muscle is regulated by transcriptional and posttranscriptional mechanisms. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1999, 276, E1136-E1145.	1.8	20
44	Neural inflammation and the microglial response in diabetic retinopathy. <i>Journal of Ocular Biology, Diseases, and Informatics</i> , 2011, 4, 25-33.	0.2	20
45	Diminished retinal complex lipid synthesis and impaired fatty acid <sup>12</sup> -oxidation associated with human diabetic retinopathy. <i>JCI Insight</i> , 2021, 6, .	2.3	20
46	Mitochondrial uncoupling has no effect on microvascular complications in type 2 diabetes. <i>Scientific Reports</i> , 2019, 9, 881.	1.6	19
47	Differential Effects of Empagliflozin on Microvascular Complications in Murine Models of Type 1 and Type 2 Diabetes. <i>Biology</i> , 2020, 9, 347.	1.3	19
48	Inhibition of Atypical Protein Kinase C Reduces Inflammation-Induced Retinal Vascular Permeability. <i>American Journal of Pathology</i> , 2018, 188, 2392-2405.	1.9	18
49	Tissue-specific regulation of glutamine synthetase gene expression in acute pancreatitis is confirmed by using interleukin-1 receptor knockout mice. <i>Surgery</i> , 1996, 120, 255-264.	1.0	17
50	Direct Effects of PPAR <sup>±</sup> Agonists on Retinal Inflammation and Angiogenesis May Explain How Fenofibrate Lowers Risk of Severe Proliferative Diabetic Retinopathy. <i>Diabetes</i> , 2013, 62, 36-38.	0.3	17
51	A Role for Systemic Inflammation in Diabetic Retinopathy. , 2013, 54, 2384.		15
52	Induction of Glutamine Synthetase Expression after Major Burn Injury is Tissue Specific and Temporally Variable. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1997, 42, 421-428.	1.1	14
53	mTORC1 and mTORC2 expression in inner retinal neurons and glial cells. <i>Experimental Eye Research</i> , 2020, 197, 108131.	1.2	13
54	INDUCTION OF MUSCLE GLUTAMINE SYNTHETASE GENE EXPRESSION DURING ENDOTOXEMIA IS ADRENAL GLAND DEPENDENT. <i>Shock</i> , 1997, 7, 332-338.	1.0	12

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55	Glutamine synthetase expression in rat lung is regulated by protein stability. American Journal of Physiology - Lung Cellular and Molecular Physiology, 1998, 275, L877-L886.	1.3	11
56	Identification of glucocorticoid-responsive elements that control transcription of rat glutamine synthetase. American Journal of Physiology - Lung Cellular and Molecular Physiology, 1999, 276, L319-L331.	1.3	11
57	Glutamine synthetase gene expression in the lungs of endotoxin-treated and adrenalectomized rats. American Journal of Physiology - Lung Cellular and Molecular Physiology, 1997, 273, L1182-L1190.	1.3	10
58	Sepsis Increases Lung Glutamine Synthetase Expression in the Tumor-Bearing Host. Journal of Surgical Research, 1998, 78, 18-22.	0.8	8
59	Loss of High-Mobility Group Box 1 (HMGB1) Protein in Rods Accelerates Rod Photoreceptor Degeneration After Retinal Detachment. , 2020, 61, 50.		8
60	Developmental and light regulation of tumor suppressor protein PP2A in the retina. Oncotarget, 2018, 9, 1505-1523.	0.8	7
61	AMINO ACID METABOLISM AND THE VASCULAR ENDOTHELIUM: REGULATION AND DISEASE IMPLICATIONS. Shock, 1995, 4, 79-88.	1.0	5
62	All-trans-Retinaldehyde Contributes to Retinal Vascular Permeability in Ischemia Reperfusion. , 2020, 61, 8.		5
63	Conditional Knock out of High-Mobility Group Box 1 (HMGB1) in Rods Reduces Autophagy Activation after Retinal Detachment. Cells, 2021, 10, 2010.	1.8	5
64	Hepatic Glutaminase Gene Expression in the Tumor-Bearing Rat. Journal of Surgical Research, 1997, 69, 33-39.	0.8	4
65	Differential effects of minocycline on microvascular complications in murine models of type 1 and type 2 diabetes. Journal of Translational Science, 2021, 7, .	0.2	4
66	mTORC1 regulates high levels of protein synthesis in retinal ganglion cells of adult mice. Journal of Biological Chemistry, 2022, 298, 101944.	1.6	2
67	Is the lung an organ of nutrition and metabolism?. Nutrition, 1997, 13, 492.	1.1	0
68	Regulation of Vascular Endothelial Growth Factor A by Activating Transcription Factor 4. Circulation Research, 2008, 103, e118; author reply e119.	2.0	0