

# Stefan Mergler

## List of Publications by Citations

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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.

65  
papers

1,584  
citations

25  
h-index

37  
g-index

72  
ext. papers

1,787  
ext. citations

4.4  
avg, IF

4.16  
L-index

#	Paper	IF	Citations
65	Transient receptor potential vanilloid 1 activation induces inflammatory cytokine release in corneal epithelium through MAPK signaling. <i>Journal of Cellular Physiology</i> , <b>2007</b> , 213, 730-9	7	92
64	Characterization of somatostatin receptor subtype-specific regulation of insulin and glucagon secretion: an in vitro study on isolated human pancreatic islets. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2007</b> , 92, 673-80	5.6	91
63	Regulation of L-type calcium channels by protein tyrosine kinase and protein kinase C in cultured rat and human retinal pigment epithelial cells. <i>FASEB Journal</i> , <b>1997</b> , 11, 859-67	0.9	73
62	Anti-TNF-alpha treatment: a possible promoter in endogenous uveitis? observational report on six patients: occurrence of uveitis following etanercept treatment. <i>Current Eye Research</i> , <b>2010</b> , 35, 751-6	2.9	68
61	Dependence of regulatory volume decrease on transient receptor potential vanilloid 4 (TRPV4) expression in human corneal epithelial cells. <i>Cell Calcium</i> , <b>2008</b> , 44, 374-85	4	66
60	TRPC4 knockdown suppresses epidermal growth factor-induced store-operated channel activation and growth in human corneal epithelial cells. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 32230-7	5.4	61
59	The human corneal endothelium: new insights into electrophysiology and ion channels. <i>Progress in Retinal and Eye Research</i> , <b>2007</b> , 26, 359-78	20.5	50
58	Cannabinoid receptor 1 suppresses transient receptor potential vanilloid 1-induced inflammatory responses to corneal injury. <i>Cellular Signalling</i> , <b>2013</b> , 25, 501-11	4.9	49
57	TRPV channels mediate temperature-sensing in human corneal endothelial cells. <i>Experimental Eye Research</i> , <b>2010</b> , 90, 758-70	3.7	45
56	Capsaicin induces cytotoxicity in pancreatic neuroendocrine tumor cells via mitochondrial action. <i>Cellular Signalling</i> , <b>2014</b> , 26, 41-8	4.9	43
55	Orexin-A inhibits glucagon secretion and gene expression through a Foxo1-dependent pathway. <i>Endocrinology</i> , <b>2008</b> , 149, 1618-26	4.8	42
54	Activation of neuroendocrine L-type channels (alpha1D subunits) in retinal pigment epithelial cells and brain neurons by pp60(c-src). <i>Biochemical and Biophysical Research Communications</i> , <b>2000</b> , 270, 806-10	3.4	39
53	Altered regulation of L-type channels by protein kinase C and protein tyrosine kinases as a pathophysiologic effect in retinal degeneration. <i>FASEB Journal</i> , <b>1998</b> , 12, 1125-34	0.9	38
52	Temperature-sensitive transient receptor potential channels in corneal tissue layers and cells. <i>Ophthalmic Research</i> , <b>2014</b> , 52, 151-9	2.9	37
51	Thermosensitive transient receptor potential channels in human corneal epithelial cells. <i>Journal of Cellular Physiology</i> , <b>2011</b> , 226, 1828-42	7	36
50	Transient receptor potential channel TRPM8 agonists stimulate calcium influx and neurotensin secretion in neuroendocrine tumor cells. <i>Neuroendocrinology</i> , <b>2007</b> , 85, 81-92	5.6	36
49	Thermo-sensitive transient receptor potential vanilloid channel-1 regulates intracellular calcium and triggers chromogranin A secretion in pancreatic neuroendocrine BON-1 tumor cells. <i>Cellular Signalling</i> , <b>2012</b> , 24, 233-46	4.9	33

48	Characterization of transient receptor potential vanilloid channel 4 (TRPV4) in human corneal endothelial cells. <i>Experimental Eye Research</i> , <b>2011</b> , 93, 710-9	3.7	32
47	Thyronamine induces TRPM8 channel activation in human conjunctival epithelial cells. <i>Cellular Signalling</i> , <b>2015</b> , 27, 315-25	4.9	30
46	Functional TRPV1 expression in human corneal fibroblasts. <i>Experimental Eye Research</i> , <b>2013</b> , 107, 121-9	3.7	30
45	Altered calcium regulation by thermosensitive transient receptor potential channels in etoposide-resistant WERI-Rb1 retinoblastoma cells. <i>Experimental Eye Research</i> , <b>2012</b> , 94, 157-73	3.7	30
44	Calcium regulation by thermo- and osmosensing transient receptor potential vanilloid channels (TRPVs) in human conjunctival epithelial cells. <i>Histochemistry and Cell Biology</i> , <b>2012</b> , 137, 743-61	2.4	27
43	EGF suppresses hydrogen peroxide induced Ca <sup>2+</sup> influx by inhibiting L-type channel activity in cultured human corneal endothelial cells. <i>Experimental Eye Research</i> , <b>2005</b> , 80, 285-93	3.7	27
42	Stimulation of L-type Ca(2+) channels by increase of intracellular InsP3 in rat retinal pigment epithelial cells. <i>Experimental Eye Research</i> , <b>2002</b> , 74, 29-40	3.7	27
41	3-Iodothyronamine increases transient receptor potential melastatin channel 8 (TRPM8) activity in immortalized human corneal epithelial cells. <i>Cellular Signalling</i> , <b>2016</b> , 28, 136-147	4.9	25
40	Calcium regulation by temperature-sensitive transient receptor potential channels in human uveal melanoma cells. <i>Cellular Signalling</i> , <b>2014</b> , 26, 56-69	4.9	25
39	Gastrin transactivates the chromogranin A gene through MEK-1/ERK- and PKC-dependent phosphorylation of Sp1 and CREB. <i>Cellular Signalling</i> , <b>2008</b> , 20, 60-72	4.9	25
38	Characterization of voltage operated R-type Ca <sup>2+</sup> channels in modulating somatostatin receptor subtype 2- and 3-dependent inhibition of insulin secretion from INS-1 cells. <i>Cellular Signalling</i> , <b>2008</b> , 20, 2286-95	4.9	24
37	The Multitarget Ligand 3-Iodothyronamine Modulates $\beta$ Adrenergic Receptor 2 Signaling. <i>European Thyroid Journal</i> , <b>2015</b> , 4, 21-9	4.2	23
36	Ocular transient receptor potential channel function in health and disease. <i>BMC Ophthalmology</i> , <b>2015</b> , 15 Suppl 1, 153	2.3	23
35	Functional significance of thermosensitive transient receptor potential melastatin channel 8 (TRPM8) expression in immortalized human corneal endothelial cells. <i>Experimental Eye Research</i> , <b>2013</b> , 116, 337-49	3.7	22
34	Calcium influx induced by activation of receptor tyrosine kinases in SV40-transfected human corneal endothelial cells. <i>Experimental Eye Research</i> , <b>2003</b> , 77, 485-95	3.7	21
33	Activation of TRPV4 channel in pancreatic INS-1E beta cells enhances glucose-stimulated insulin secretion via calcium-dependent mechanisms. <i>FEBS Letters</i> , <b>2013</b> , 587, 3281-7	3.8	19
32	3-Iodothyronamine, a Novel Endogenous Modulator of Transient Receptor Potential Melastatin 8?. <i>Frontiers in Endocrinology</i> , <b>2017</b> , 8, 198	5.7	18
31	3-Iodothyronamine Decreases Expression of Genes Involved in Iodide Metabolism in Mouse Thyroids and Inhibits Iodide Uptake in PCCL3 Thyrocytes. <i>Thyroid</i> , <b>2017</b> , 27, 11-22	6.2	18

30	R-type Ca(2+)-channel activity is associated with chromogranin A secretion in human neuroendocrine tumor BON cells. <i>Journal of Membrane Biology</i> , <b>2003</b> , 194, 177-86	2.3	17
29	Polymodal roles of transient receptor potential channels in the control of ocular function. <i>Eye and Vision (London, England)</i> , <b>2015</b> , 2, 5	4.9	15
28	TRPV6 channel modulates proliferation of insulin secreting INS-1E beta cell line. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2015</b> , 1853, 3202-10	4.9	14
27	PKC isoform-specific enhancement of capacitative calcium entry in human corneal epithelial cells. <i>Investigative Ophthalmology and Visual Science</i> , <b>2006</b> , 47, 3989-4000		14
26	Upregulation of Transient Receptor Potential Vanilloid Type-1 Channel Activity and Ca <sup>2+</sup> Influx Dysfunction in Human Pterygial Cells <b>2016</b> , 57, 2564-77		14
25	L-carnitine reduces in human conjunctival epithelial cells hypertonic-induced shrinkage through interacting with TRPV1 channels. <i>Cellular Physiology and Biochemistry</i> , <b>2014</b> , 34, 790-803	3.9	13
24	Multifocal ERG recordings under visual control of the stimulated fundus in mice <b>2013</b> , 54, 2582-9		12
23	TRPV4 regulates insulin mRNA expression and INS-1E cell death via ERK1/2 and NO-dependent mechanisms. <i>Cellular Signalling</i> , <b>2017</b> , 35, 242-249	4.9	11
22	Gene transfer of cyto-protective molecules in corneal endothelial cells and cultured corneas: analysis of protective effects in vitro and in vivo. <i>Biochemical and Biophysical Research Communications</i> , <b>2007</b> , 357, 302-7	3.4	11
21	Insulin-like growth factor-1 increases intracellular calcium concentration in human primary neuroendocrine pancreatic tumor cells and a pancreatic neuroendocrine tumor cell line (BON-1) via R-type Ca <sup>2+</sup> channels and regulates chromogranin a secretion in BON-1 cells. <i>Neuroendocrinology</i> , <b>2005</b> , 82, 87-102	5.6	11
20	3-Iodothyronamine Activates a Set of Membrane Proteins in Murine Hypothalamic Cell Lines. <i>Frontiers in Endocrinology</i> , <b>2018</b> , 9, 523	5.7	11
19	Insulinostatic activity of cerebellin--evidence from in vivo and in vitro studies in rats. <i>Regulatory Peptides</i> , <b>2009</b> , 157, 19-24		10
18	Ca <sup>2+</sup> channel characteristics in neuroendocrine tumor cell cultures analyzed by color contour plots. <i>Journal of Neuroscience Methods</i> , <b>2003</b> , 129, 169-81	3	10
17	Ca(2+) channel properties in neuroendocrine tumor cell cultures investigated by whole-cell patch-clamp technique. <i>Annals of the New York Academy of Sciences</i> , <b>2004</b> , 1014, 137-9	6.5	8
16	Valine-286 residue in the third intracellular loop of the cholecystokinin 2 receptor exerts a pivotal role in cholecystokinin 2 receptor mediated intracellular signal transduction in human colon cancer cells. <i>Cellular Signalling</i> , <b>2005</b> , 17, 1505-15	4.9	8
15	Vascular Endothelial Growth Factor (VEGF) Induced Downstream Responses to Transient Receptor Potential Vanilloid 1 (TRPV1) and 3-Iodothyronamine (3-TAM) in Human Corneal Keratocytes. <i>Frontiers in Endocrinology</i> , <b>2018</b> , 9, 670	5.7	8
14	An incretin-based tri-agonist promotes superior insulin secretion from murine pancreatic islets via PLC activation. <i>Cellular Signalling</i> , <b>2018</b> , 51, 13-22	4.9	7
13	Application of two-dimensional gel-based mass spectrometry to functionally dissect resistance to targeted cancer therapy. <i>Proteomics - Clinical Applications</i> , <b>2013</b> , 7, 813-24	3.1	7

12	TRPV6 modulates proliferation of human pancreatic neuroendocrine BON-1 tumour cells. <i>Bioscience Reports</i> , <b>2016</b> , 36,	4.1	7
11	TRPM8 Activation via 3-Iodothyronamine Blunts VEGF-Induced Transactivation of TRPV1 in Human Uveal Melanoma Cells. <i>Frontiers in Pharmacology</i> , <b>2018</b> , 9, 1234	5.6	7
10	Effects of spironolactone on corneal allograft survival in the rat. <i>Ophthalmic Research</i> , <b>2007</b> , 39, 325-9	2.9	6
9	Ascorbate-induced oxidative stress mediates TRP channel activation and cytotoxicity in human etoposide-sensitive and -resistant retinoblastoma cells. <i>Laboratory Investigation</i> , <b>2021</b> , 101, 70-88	5.9	4
8	Role of TRPV channels in regulating various pancreatic cell functions: Lessons from in vitro studies. <i>BioScience Trends</i> , <b>2017</b> , 11, 9-15	9.9	2
7	Roles of Corneal Epithelial Ion Transport Mechanisms in Mediating Responses to Cytokines and Osmotic Stress <b>2008</b> , 17-46		1
6	Protein profiling of WERI RB1 and etoposide resistant WERI ETOR reveals new insights into topoisomerase inhibitor resistance in retinoblastoma		1
5	TRPV4 Stimulation Level Regulates Ca-Dependent Control of Human Corneal Endothelial Cell Viability and Survival.. <i>Membranes</i> , <b>2022</b> , 12,	3.8	1
4	Protein Profiling of WERI-RB1 and Etoposide-Resistant WERI-ETOR Reveals New Insights into Topoisomerase Inhibitor Resistance in Retinoblastoma.. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23,	6.3	1
3	L-carnitine suppresses transient receptor potential vanilloid type 1 activity and myofibroblast transdifferentiation in human corneal keratocytes. <i>Laboratory Investigation</i> , <b>2021</b> , 101, 680-689	5.9	0
2	Targeted esterase-induced dye (TED) loading supports direct calcium imaging in eukaryotic cell-free systems.. <i>RSC Advances</i> , <b>2021</b> , 11, 16285-16296	3.7	0
1	Effects of butyrate on ruminal Ca transport: evidence for the involvement of apically expressed TRPV3 and TRPV4 channels.. <i>Pflügers Archiv European Journal of Physiology</i> , <b>2022</b> , 474, 315	4.6	