

Stefan Zahler

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4856792/publications.pdf>

Version: 2024-02-01

97
papers

3,347
citations

126907

33
h-index

168389

53
g-index

100
all docs

100
docs citations

100
times ranked

5266
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoswitchable Inhibitors of Microtubule Dynamics Optically Control Mitosis and Cell Death. <i>Cell</i> , 2015, 162, 403-411.	28.9	317
2	Acute cardiac inflammatory responses to postischemic reperfusion during cardiopulmonary bypass. <i>Cardiovascular Research</i> , 1999, 41, 722-730.	3.8	131
3	Metal-Organic Framework Nanoparticles Induce Pyroptosis in Cells Controlled by the Extracellular pH. <i>Advanced Materials</i> , 2020, 32, e1907267.	21.0	118
4	Atrial Natriuretic Peptide Induces Mitogen-Activated Protein Kinase Phosphatase-1 in Human Endothelial Cells via Rac1 and NAD(P)H Oxidase/Nox2-Activation. <i>Circulation Research</i> , 2005, 96, 43-53.	4.5	98
5	Ccl2 and Ccl3 Mediate Neutrophil Recruitment via Induction of Protein Synthesis and Generation of Lipid Mediators. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009, 29, 1787-1793.	2.4	96
6	The V-ATPase-Inhibitor Archazolid Abrogates Tumor Metastasis via Inhibition of Endocytic Activation of the Rho-GTPase Rac1. <i>Cancer Research</i> , 2012, 72, 5976-5987.	0.9	94
7	Cyclin-dependent Kinase 5 Regulates Endothelial Cell Migration and Angiogenesis. <i>Journal of Biological Chemistry</i> , 2010, 285, 35932-35943.	3.4	89
8	New natural products identified by combined genomics-metabolomics profiling of marine <i>Streptomyces</i> sp. MP131-18. <i>Scientific Reports</i> , 2017, 7, 42382.	3.3	86
9	Endothelial preconditioning by transient oxidative stress reduces inflammatory responses of cultured endothelial cells to TNF α . <i>FASEB Journal</i> , 2000, 14, 555-564.	0.5	84
10	Gap-junctional coupling between neutrophils and endothelial cells: a novel modulator of transendothelial migration. <i>Journal of Leukocyte Biology</i> , 2003, 73, 118-126.	3.3	83
11	MAPK phosphatase ϵ 1 represents a novel anti-inflammatory target of glucocorticoids in the human endothelium. <i>FASEB Journal</i> , 2007, 21, 74-80.	0.5	81
12	Inverse In Silico Screening for Identification of Kinase Inhibitor Targets. <i>Chemistry and Biology</i> , 2007, 14, 1207-1214.	6.0	80
13	Targeting cyclin dependent kinase 5 in hepatocellular carcinoma – A novel therapeutic approach. <i>Journal of Hepatology</i> , 2015, 63, 102-113.	3.7	72
14	Ginkgo biloba extract EGb $\text{A}^{\text{®}}$ 761 increases endothelial nitric oxide production in vitro and in vivo. <i>Cellular and Molecular Life Sciences</i> , 2007, 64, 1715-1722.	5.4	70
15	Optical Manipulation of F-Actin with Photoswitchable Small Molecules. <i>Journal of the American Chemical Society</i> , 2020, 142, 9240-9249.	13.7	63
16	Atrial Natriuretic Peptide, a Regulator of Nuclear Factor- κ B Activation in Vivo. <i>Endocrinology</i> , 2007, 148, 332-336.	2.8	56
17	Plasmin Inhibitors Prevent Leukocyte Accumulation and Remodeling Events in the Postischemic Microvasculature. <i>PLoS ONE</i> , 2011, 6, e17229.	2.5	54
18	Flavopiridol Protects Against Inflammation by Attenuating Leukocyte-Endothelial Interaction via Inhibition of Cyclin-Dependent Kinase 9. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011, 31, 280-288.	2.4	52

#	ARTICLE	IF	CITATIONS
19	Plasminogen Activator Inhibitor-1 Promotes Neutrophil Infiltration and Tissue Injury on Ischemiaâ€Reperfusion. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 829-842.	2.4	51
20	Pretubulysin derived probes as novel tools for monitoring the microtubule network via activity-based protein profiling and fluorescence microscopy. <i>Molecular BioSystems</i> , 2012, 8, 2067.	2.9	48
21	Targeting de novo lipogenesis as a novel approach in anti-cancer therapy. <i>British Journal of Cancer</i> , 2018, 118, 43-51.	6.4	47
22	Mechanical Aspects of Angiogenesis. <i>Cancers</i> , 2021, 13, 4987.	3.7	46
23	ACE-inhibition prevents postischemic coronary leukocyte adhesion and leukocyte-dependent reperfusion injury. <i>Cardiovascular Research</i> , 1997, 36, 386-395.	3.8	45
24	Cyclin-dependent kinase 5 stabilizes hypoxia-inducible factor-1 α : a novel approach for inhibiting angiogenesis in hepatocellular carcinoma. <i>Oncotarget</i> , 2016, 7, 27108-27121.	1.8	45
25	Tissue Plasminogen Activator Promotes Postischemic Neutrophil Recruitment via Its Proteolytic and Nonproteolytic Properties. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, 1495-1504.	2.4	44
26	Endothelial Alpha-Parvin Controls Integrity of Developing Vasculature and Is Required for Maintenance of Cellâ€Cell Junctions. <i>Circulation Research</i> , 2015, 117, 29-40.	4.5	44
27	Cdk5 controls lymphatic vessel development and function by phosphorylation of Foxc2. <i>Nature Communications</i> , 2015, 6, 7274.	12.8	42
28	Urokinase-Type Plasminogen Activator Promotes Paracellular Transmigration of Neutrophils Via Mac-1, But Independently of Urokinase-Type Plasminogen Activator Receptor. <i>Circulation</i> , 2011, 124, 1848-1859.	1.6	40
29	Twice switched at birth: Cell cycle-independent roles of the α -neuron-specific β -cyclin-dependent kinase 5 (Cdk5) in non-neuronal cells. <i>Cellular Signalling</i> , 2011, 23, 1698-1707.	3.6	39
30	Anti β -angiogenic effects of the tubulysin precursor pretubulysin and of simplified pretubulysin derivatives. <i>British Journal of Pharmacology</i> , 2012, 167, 1048-1061.	5.4	38
31	Inhibition of Cyclin β -Dependent Kinase 5: A Strategy to Improve Sorafenib Response in Hepatocellular Carcinoma Therapy. <i>Hepatology</i> , 2019, 69, 376-393.	7.3	38
32	Indirubin Derivative 6BIO Suppresses Metastasis. <i>Cancer Research</i> , 2013, 73, 6004-6012.	0.9	37
33	Roscovitine blocks leukocyte extravasation by inhibition of cyclin β -dependent kinases 5 and 9. <i>British Journal of Pharmacology</i> , 2011, 163, 1086-1098.	5.4	35
34	Investigation of the marine compound spongistatin 1 links the inhibition of PKC β translocation to nonmitotic effects of tubulin antagonism in angiogenesis. <i>FASEB Journal</i> , 2009, 23, 1127-1137.	0.5	33
35	Regulation of endothelial signaling and migration by v-ATPase. <i>Angiogenesis</i> , 2014, 17, 587-601.	7.2	33
36	Inhibition of endothelial Cdk5 reduces tumor growth by promoting non-productive angiogenesis. <i>Oncotarget</i> , 2016, 7, 6088-6104.	1.8	32

#	ARTICLE	IF	CITATIONS
37	Metalloporphyrins inactivate caspase-3 and -8. <i>FASEB Journal</i> , 2005, 19, 1272-1279.	0.5	30
38	Nuclear Factor- κ B-Independent Anti-Inflammatory Action of Salicylate in Human Endothelial Cells: Induction of Heme Oxygenase-1 by the c-Jun N-Terminal Kinase/Activator Protein-1 Pathway. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 318, 389-394.	2.5	30
39	Actin stabilizing compounds show specific biological effects due to their binding mode. <i>Scientific Reports</i> , 2019, 9, 9731.	3.3	30
40	Fiber stiffness, pore size and adhesion control migratory phenotype of MDA-MB-231 cells in collagen gels. <i>PLoS ONE</i> , 2019, 14, e0225215.	2.5	30
41	Anti-angiogenic effects of purine inhibitors of cyclin dependent kinases. <i>Angiogenesis</i> , 2011, 14, 281-291.	7.2	29
42	Targeting actin inhibits repair of doxorubicin-induced DNA damage: a novel therapeutic approach for combination therapy. <i>Cell Death and Disease</i> , 2019, 10, 302.	6.3	29
43	Atrial Natriuretic Peptide Protects against Histamine-Induced Endothelial Barrier Dysfunction in Vivo. <i>Molecular Pharmacology</i> , 2008, 74, 1-8.	2.3	28
44	Inhibitor of Apoptosis Proteins as Novel Targets in Inflammatory Processes. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011, 31, 2240-2250.	2.4	28
45	A novel approach to prevent endothelial hyperpermeability: The Crataegus extract WS [®] 1442 targets the cAMP/Rap1 pathway. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 52, 196-205.	1.9	28
46	Reduction of pro-inflammatory cytokine levels and cellular adhesion in CABG procedures with separated pulmonary and systemic extracorporeal circulation without an oxygenator. <i>European Journal of Cardio-thoracic Surgery</i> , 2000, 17, 729-736.	1.4	26
47	The Actin Targeting Compound Chondramide Inhibits Breast Cancer Metastasis via Reduction of Cellular Contractility. <i>PLoS ONE</i> , 2014, 9, e112542.	2.5	26
48	Dexamethasone-Induced Expression of Endothelial Mitogen-Activated Protein Kinase Phosphatase-1 Involves Activation of the Transcription Factors Activator Protein-1 and $3',5'$ -Cyclic Adenosine $5'$ -Monophosphate Response Element-Binding Protein and the Generation of Reactive Oxygen Species. <i>Endocrinology</i> , 2008, 149, 3635-3642.	2.8	25
49	The selective P-TEFb inhibitor CAN508 targets angiogenesis. <i>European Journal of Medicinal Chemistry</i> , 2011, 46, 4289-4294.	5.5	23
50	Micropatterning as a tool to identify regulatory triggers and kinetics of actin-mediated endothelial mechanosensing. <i>Journal of Cell Science</i> , 2018, 131, .	2.0	23
51	Trisubstituted Pyrazolopyrimidines as Novel Angiogenesis Inhibitors. <i>PLoS ONE</i> , 2013, 8, e54607.	2.5	23
52	The Crataegus extract WS [®] 1442 inhibits balloon catheter-induced intimal hyperplasia in the rat carotid artery by directly influencing PDGFR- β . <i>Atherosclerosis</i> , 2010, 211, 409-417.	0.8	22
53	Versatile method to generate multiple types of micropatterns. <i>Biointerphases</i> , 2016, 11, 011005.	1.6	22
54	A novel role for inhibitor of apoptosis (IAP) proteins as regulators of endothelial barrier function by mediating RhoA activation. <i>FASEB Journal</i> , 2014, 28, 1938-1946.	0.5	21

#	ARTICLE	IF	CITATIONS
55	Anti-angiogenic potential of small molecular inhibitors of cyclin dependent kinases in vitro. <i>Angiogenesis</i> , 2010, 13, 239-249.	7.2	20
56	<i>Ginkgo biloba</i> extract EGb [®] 761 exerts anti-angiogenic effects via activation of tyrosine phosphatases. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 2122-2130.	3.6	19
57	Modulation of actin dynamics as potential macrophage subtype-targeting anti-tumour strategy. <i>Scientific Reports</i> , 2017, 7, 41434.	3.3	19
58	The vascular barrier-protecting hawthorn extract WS [®] 1442 raises endothelial calcium levels by inhibition of SERCA and activation of the IP3 pathway. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 53, 567-577.	1.9	18
59	Cell-Based Strain Remodeling of a Nonfibrous Matrix as an Organizing Principle for Vasculogenesis. <i>Cell Reports</i> , 2020, 32, 108015.	6.4	18
60	The Biophysical Properties of Basal Lamina Gels Depend on the Biochemical Composition of the Gel. <i>PLoS ONE</i> , 2015, 10, e0118090.	2.5	17
61	Characterization of a Pyrazolo[4,3- <i>d</i>]pyrimidine Inhibitor of Cyclin-Dependent Kinases 2 and 5 and Aurora A With Pro-Apoptotic and Anti-Angiogenic Activity <i>In Vitro</i> . <i>Chemical Biology and Drug Design</i> , 2015, 86, 1528-1540.	3.2	16
62	New View on Endothelial Cell Migration. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, 2346-2357.	2.4	16
63	Synthesis and Biological Evaluation of Modified Miuraenamides. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 6952-6965.	2.4	16
64	PI 3-kinase pathway is responsible for antiapoptotic effects of atrial natriuretic peptide in rat liver transplantation. <i>World Journal of Gastroenterology</i> , 2006, 12, 1049.	3.3	16
65	Novel Tubulin Antagonist Pretubulysin Displays Antivascular Properties <i>In Vitro</i> and <i>In Vivo</i> . <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, 294-303.	2.4	14
66	Inhibition of the V-ATPase by Archazolid A: A New Strategy to Inhibit EMT. <i>Molecular Cancer Therapeutics</i> , 2017, 16, 2329-2339.	4.1	14
67	Transcriptional effects of actin-binding compounds: the cytoplasm sets the tone. <i>Cellular and Molecular Life Sciences</i> , 2018, 75, 4539-4555.	5.4	14
68	High-Content Imaging of Unbiased Chemical Perturbations Reveals that the Phenotypic Plasticity of the Actin Cytoskeleton Is Constrained. <i>Cell Systems</i> , 2019, 9, 496-507.e5.	6.2	14
69	Contractility as a global regulator of cellular morphology, velocity, and directionality in low-adhesive fibrillary micro-environments. <i>Biomaterials</i> , 2016, 102, 137-147.	11.4	13
70	Inducible microRNA-200c decreases motility of breast cancer cells and reduces filamin A. <i>PLoS ONE</i> , 2019, 14, e0224314.	2.5	13
71	Influence of Surface Modifications on the Spatiotemporal Microdistribution of Quantum Dots <i>In Vivo</i> . <i>Small</i> , 2016, 12, 2641-2651.	10.0	11
72	Combined antitumoral effects of pretubulysin and methotrexate. <i>Pharmacology Research and Perspectives</i> , 2019, 7, e00460.	2.4	10

#	ARTICLE	IF	CITATIONS
73	Targeting the endoplasmic reticulum-mitochondria interface sensitizes leukemia cells to cytostatics. <i>Haematologica</i> , 2019, 104, 546-555.	3.5	10
74	Spatio-selective activation of nuclear translocation of YAP with light directs invasion of cancer cell spheroids. <i>IScience</i> , 2021, 24, 102185.	4.1	10
75	Disentangling cadherin-mediated cell-cell interactions in collective cancer cell migration. <i>Biophysical Journal</i> , 2022, 121, 44-60.	0.5	10
76	Catching Speedy Gonzales: Driving forces for Protein Film Formation on Silicone Rubber Tubing During Pumping. <i>Journal of Pharmaceutical Sciences</i> , 2022, 111, 1577-1586.	3.3	10
77	Components of the Plasminogen Activation System Promote Engraftment of Porous Polyethylene Biomaterial via Common and Distinct Effects. <i>PLoS ONE</i> , 2015, 10, e0116883.	2.5	9
78	Persistent inhibition of pore-based cell migration by sub-toxic doses of miuraenamamide, an actin filament stabilizer. <i>Scientific Reports</i> , 2017, 7, 16407.	3.3	9
79	The novel brassinosteroid analog BR4848 inhibits angiogenesis in human endothelial cells and induces apoptosis in human cancer cells in vitro. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2018, 178, 263-271.	2.5	8
80	Chivosazole A Modulates Protein-Protein Interactions of Actin. <i>Journal of Natural Products</i> , 2019, 82, 1961-1970.	3.0	8
81	Novel cilengitide-based cyclic RGD peptides as $\alpha_5\beta_1$ integrin inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020, 30, 127039.	2.2	8
82	Selectin-mediated rolling of neutrophils is essential for their activation and retention in the reperfused coronary system. <i>Basic Research in Cardiology</i> , 2002, 97, 359-364.	5.9	7
83	Tetrapyrrolic Pigments from Heme and Chlorophyll Breakdown are Actin-Targeting Compounds. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22578-22584.	13.8	7
84	Zn ²⁺ -triggered self-assembly of Gonadorelin [6-D-Phe] to produce nanostructures and fibrils. <i>Scientific Reports</i> , 2018, 8, 11280.	3.3	6
85	Finding the Needle in the Haystack: High-Resolution Techniques for Characterization of Mixed Protein Particles Containing Shed Silicone Rubber Particles Generated During Pumping. <i>Journal of Pharmaceutical Sciences</i> , 2021, 110, 2093-2104.	3.3	6
86	Turning the Actin Nucleating Compound Miuraenamamide into Nucleation Inhibitors. <i>ACS Omega</i> , 2021, 6, 22165-22172.	3.5	5
87	In vitro and in vivo characterization of the actin polymerizing compound chondramide as an angiogenic inhibitor. <i>Cardiovascular Research</i> , 2014, 104, 303-314.	3.8	4
88	Nuclear actin in cancer biology. <i>International Review of Cell and Molecular Biology</i> , 2020, 355, 53-66.	3.2	4
89	Understanding the mechanism of action of pyrrolo[3,2-b]quinoxaline-derivatives as kinase inhibitors. <i>RSC Medicinal Chemistry</i> , 2020, 11, 665-675.	3.9	4
90	Catabolism of adenine nucleotides in the human heart before and after cardiac bypass surgery. <i>Drug Development Research</i> , 1998, 45, 159-165.	2.9	3

#	ARTICLE	IF	CITATIONS
91	The Dual Edema-Preventing Molecular Mechanism of the Crataegus Extract WS 1442 Can Be Assigned to Distinct Phytochemical Fractions. <i>Planta Medica</i> , 2017, 83, 701-709.	1.3	3
92	Adhesion of neutrophils to cultured human endothelial cells is enhanced by stimulation of adenosine A1-receptors. <i>Drug Development Research</i> , 1998, 45, 350-355.	2.9	2
93	Sequential and Switchable Patterning for Studying Cellular Processes under Spatiotemporal Control. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 35545-35560.	8.0	1
94	Using the yeast three-hybrid system for the identification of small molecule-protein interactions with the example of ethinylestradiol. <i>Biological Chemistry</i> , 2022, 403, 421-431.	2.5	1
95	Nanoparticles: Influence of Surface Modifications on the Spatiotemporal Microdistribution of Quantum Dots In Vivo (Small 19/2016). <i>Small</i> , 2016, 12, 2666-2666.	10.0	0
96	Tetrapyrrolische Pigmente aus dem Häm- und Chlorophyllabbau interagieren mit Aktin. <i>Angewandte Chemie</i> , 2021, 133, 22753-22760.	2.0	0
97	Ccl2 and Ccl3 mediate neutrophil recruitment through induction of protein synthesis and secondary generation of lipid mediators. <i>FASEB Journal</i> , 2009, 23, 762.11.	0.5	0