Stefan Zahler

List of Publications by Year
in descending order

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Version: 2024-02-01

97	3,347	126858	168321
papers	citations	33 h-index	53 g-index

100	100	100	5266
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photoswitchable Inhibitors of Microtubule Dynamics Optically Control Mitosis and Cell Death. Cell, 2015, 162, 403-411.	13.5	317
2	Acute cardiac inflammatory responses to postischemic reperfusion during cardiopulmonary bypass. Cardiovascular Research, 1999, 41, 722-730.	1.8	131
3	Metalâ€“Organic Framework Nanoparticles Induce Pyroptosis in Cells Controlled by the Extracellular pH. Advanced Materials, 2020, 32, e1907267.	11.1	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. Circulation Research, 2005, 96, 43-53.	2.0	98
5	Ccl2 and Ccl3 Mediate Neutrophil Recruitment via Induction of Protein Synthesis and Generation of Lipid Mediators. Arteriosclerosis, Thrombosis, and Vascular Biology, 2009, 29, 1787-1793.	1.1	96
6	The V-ATPase-Inhibitor Archazolid Abrogates Tumor Metastasis via Inhibition of Endocytic Activation of the Rho-GTPase Rac1. Cancer Research, 2012, 72, 5976-5987.	0.4	94
7	Cyclin-dependent Kinase 5 Regulates Endothelial Cell Migration and Angiogenesis. Journal of Biological Chemistry, 2010, 285, 35932-35943.	1.6	89
8	New natural products identified by combined genomics-metabolomics profiling of marine Streptomyces sp. MP131-18. Scientific Reports, 2017, 7, 42382.	1.6	86
9	Endothelial preconditioning by transient oxidative stress reduces inflammatory responses of cultured endothelial cells to TNFâ€±. FASEB Journal, 2000, 14, 555-564.	0.2	84
10	Gap-junctional coupling between neutrophils and endothelial cells: a novel modulator of transendothelial migration. Journal of Leukocyte Biology, 2003, 73, 118-126.	1.5	83
11	MAPK phosphataseâ€1 represents a novel antiâ€inflammatory target of glucocorticoids in the human endothelium. FASEB Journal, 2007, 21, 74-80.	0.2	81
12	Inverse In Silico Screening for Identification of Kinase Inhibitor Targets. Chemistry and Biology, 2007, 14, 1207-1214.	6.2	80
13	Targeting cyclin dependent kinase 5 in hepatocellular carcinoma â€“ A novel therapeutic approach. Journal of Hepatology, 2015, 63, 102-113.	1.8	72
14	Ginkgo biloba extract EGbÂ® 761 increases endothelial nitric oxide production in vitro and in vivo. Cellular and Molecular Life Sciences, 2007, 64, 1715-1722.	2.4	70
15	Optical Manipulation of F-Actin with Photoswitchable Small Molecules. Journal of the American Chemical Society, 2020, 142, 9240-9249.	6.6	63
16	Atrial Natriuretic Peptide, a Regulator of Nuclear Factor-ÎºB Activationin Vivo. Endocrinology, 2007, 148, 332-336.	1.4	56
17	Plasmin Inhibitors Prevent Leukocyte Accumulation and Remodeling Events in the Postischemic Microvasculature. PLoS ONE, 2011, 6, e17229.	1.1	54
18	Flavopiridol Protects Against Inflammation by Attenuating Leukocyte-Endothelial Interaction via Inhibition of Cyclin-Dependent Kinase 9. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 280-288.	1.1	52

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19	Plasminogen Activator Inhibitor-1 Promotes Neutrophil Infiltration and Tissue Injury on Ischemiaâ€“Reperfusion. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 829-842.	1.1	51
20	Pretubulysin derived probes as novel tools for monitoring the microtubule network via activity-based protein profiling and fluorescence microscopy. Molecular BioSystems, 2012, 8, 2067.	2.9	48
21	Targeting de novo lipogenesis as a novel approach in anti-cancer therapy. British Journal of Cancer, 2018, 118, 43-51.	2.9	47
22	Mechanical Aspects of Angiogenesis. Cancers, 2021, 13, 4987.	1.7	46
23	ACE-inhibition prevents postischemic coronary leukocyte adhesion and leukocyte-dependent reperfusion injury. Cardiovascular Research, 1997, 36, 386-395.	1.8	45
24	Cyclin-dependent kinase 5 stabilizes hypoxia-inducible factor-1Î±: a novel approach for inhibiting angiogenesis in hepatocellular carcinoma. Oncotarget, 2016, 7, 27108-27121.	0.8	45
25	Tissue Plasminogen Activator Promotes Postischemic Neutrophil Recruitment via Its Proteolytic and Nonproteolytic Properties. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 1495-1504.	1.1	44
26	Endothelial Alpha-Parvin Controls Integrity of Developing Vasculature and Is Required for Maintenance of Cellâ€“Cell Junctions. Circulation Research, 2015, 117, 29-40.	2.0	44
27	Cdk5 controls lymphatic vessel development and function by phosphorylation of Foxc2. Nature Communications, 2015, 6, 7274.	5.8	42
28	Urokinase-Type Plasminogen Activator Promotes Paracellular Transmigration of Neutrophils Via Mac-1, But Independently of Urokinase-Type Plasminogen Activator Receptor. Circulation, 2011, 124, 1848-1859.	1.6	40
29	Twice switched at birth: Cell cycle-independent roles of the â€œneuron-specificâ€•cyclin-dependent kinase 5 (Cdk5) in non-neuronal cells. Cellular Signalling, 2011, 23, 1698-1707.	1.7	39
30	Antiâ€angiogenic effects of the tubulysin precursor pretubulysin and of simplified pretubulysin derivatives. British Journal of Pharmacology, 2012, 167, 1048-1061.	2.7	38
31	Inhibition of Cyclinâ€Dependent Kinase 5: A Strategy to Improve Sorafenib Response in Hepatocellular Carcinoma Therapy. Hepatology, 2019, 69, 376-393.	3.6	38
32	Indirubin Derivative 6BIO Suppresses Metastasis. Cancer Research, 2013, 73, 6004-6012.	0.4	37
33	Roscovitine blocks leukocyte extravasation by inhibition of cyclinâ€dependent kinases 5 and 9. British Journal of Pharmacology, 2011, 163, 1086-1098.	2.7	35
34	Investigation of the marine compound spongistatin 1 links the inhibition of PKCÎ± translocation to nonmitotic effects of tubulin antagonism in angiogenesis. FASEB Journal, 2009, 23, 1127-1137.	0.2	33
35	Regulation of endothelial signaling and migration by v-ATPase. Angiogenesis, 2014, 17, 587-601.	3.7	33
36	Inhibition of endothelial Cdk5 reduces tumor growth by promoting non-productive angiogenesis. Oncotarget, 2016, 7, 6088-6104.	0.8	32

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37	Metalloporphyrins inactivate caspaseâ€3 and â€8. FASEB Journal, 2005, 19, 1272-1279.	0.2	30
38	Nuclear Factor-ÎºB-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. Journal of Pharmacology and Experimental Therapeutics, 2006, 318, 389-394.	1.3	30
39	Actin stabilizing compounds show specific biological effects due to their binding mode. Scientific Reports, 2019, 9, 9731.	1.6	30
40	Fiber stiffness, pore size and adhesion control migratory phenotype of MDA-MB-231 cells in collagen gels. PLoS ONE, 2019, 14, e0225215.	1.1	30
41	Anti-angiogenic effects of purine inhibitors of cyclin dependent kinases. Angiogenesis, 2011, 14, 281-291.	3.7	29
42	Targeting actin inhibits repair of doxorubicin-induced DNA damage: a novel therapeutic approach for combination therapy. Cell Death and Disease, 2019, 10, 302.	2.7	29
43	Atrial Natriuretic Peptide Protects against Histamine-Induced Endothelial Barrier Dysfunction in Vivo. Molecular Pharmacology, 2008, 74, 1-8.	1.0	28
44	Inhibitor of Apoptosis Proteins as Novel Targets in Inflammatory Processes. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 2240-2250.	1.1	28
45	A novel approach to prevent endothelial hyperpermeability: The Crataegus extract WSÂ® 1442 targets the cAMP/Rap1 pathway. Journal of Molecular and Cellular Cardiology, 2012, 52, 196-205.	0.9	28
46	Reduction of pro-inflammatory cytokine levels and cellular adhesion in CABG procedures with separated pulmonary and systemic extracorporeal circulation without an oxygenatorâœ©. European Journal of Cardio-thoracic Surgery, 2000, 17, 729-736.	0.6	26
47	The Actin Targeting Compound Chondramide Inhibits Breast Cancer Metastasis via Reduction of Cellular Contractility. PLoS ONE, 2014, 9, e112542.	1.1	26
48	Dexamethasone-Induced Expression of Endothelial Mitogen-Activated Protein Kinase Phosphatase-1 Involves Activation of the Transcription Factors Activator Protein-1 and 3â€²,5â€²-Cyclic Adenosine 5â€²-Monophosphate Response Element-Binding Protein and the Generation of Reactive Oxygen Species. Endocrinology, 2008, 149, 3635-3642.	1.4	25
49	The selective P-TEFb inhibitor CAN508 targets angiogenesis. European Journal of Medicinal Chemistry, 2011, 46, 4289-4294.	2.6	23
50	Micropatterning as a tool to identify regulatory triggers and kinetics of actin-mediated endothelial mechanosensing. Journal of Cell Science, 2018, 131, .	1.2	23
51	Trisubstituted Pyrazolopyrimidines as Novel Angiogenesis Inhibitors. PLoS ONE, 2013, 8, e54607.	1.1	23
52	The Crataegus extract WSÂ® 1442 inhibits balloon catheter-induced intimal hyperplasia in the rat carotid artery by directly influencing PDGFR-Î². Atherosclerosis, 2010, 211, 409-417.	0.4	22
53	Versatile method to generate multiple types of micropatterns. Biointerphases, 2016, 11, 011005.	0.6	22
54	A novel role for inhibitor of apoptosis (IAP) proteins as regulators of endothelial barrier function by mediating RhoA activation. FASEB Journal, 2014, 28, 1938-1946.	0.2	21

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55	Anti-angiogenic potential of small molecular inhibitors of cyclin dependent kinases in vitro. Angiogenesis, 2010, 13, 239-249.	3.7	20
56	Ginkgo biloba extract EGb^{Â®} 761 exerts antiâ€angiogenic effects via activation of tyrosine phosphatases. Journal of Cellular and Molecular Medicine, 2009, 13, 2122-2130.	1.6	19
57	Modulation of actin dynamics as potential macrophage subtype-targeting anti-tumour strategy. Scientific Reports, 2017, 7, 41434.	1.6	19
58	The vascular barrier-protecting hawthorn extract WSÂ® 1442 raises endothelial calcium levels by inhibition of SERCA and activation of the IP3 pathway. Journal of Molecular and Cellular Cardiology, 2012, 53, 567-577.	0.9	18
59	Cell-Based Strain Remodeling of a Nonfibrous Matrix as an Organizing Principle for Vasculogenesis. Cell Reports, 2020, 32, 108015.	2.9	18
60	The Biophysical Properties of Basal Lamina Gels Depend on the Biochemical Composition of the Gel. PLoS ONE, 2015, 10, e0118090.	1.1	17
61	Characterization of a Pyrazolo[4,3â€d]pyrimidine Inhibitor of Cyclinâ€Dependent Kinases 2 and 5 and Aurora A With Proâ€Apoptotic and Antiâ€Angiogenic Activity In Vitro. Chemical Biology and Drug Design, 2015, 86, 1528-1540.	1.5	16
62	New View on Endothelial Cell Migration. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 2346-2357.	1.1	16
63	Synthesis and Biological Evaluation of Modified Miuraenamides. European Journal of Organic Chemistry, 2018, 2018, 6952-6965.	1.2	16
64	PI 3-kinase pathway is responsible for antiapoptotic effects of atrial natriuretic peptide in rat liver transplantation. World Journal of Gastroenterology, 2006, 12, 1049.	1.4	16
65	Novel Tubulin Antagonist Pretubulysin Displays Antivascular Properties In Vitro and In Vivo. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 294-303.	1.1	14
66	Inhibition of the V-ATPase by Archazolid A: A New Strategy to Inhibit EMT. Molecular Cancer Therapeutics, 2017, 16, 2329-2339.	1.9	14
67	Transcriptional effects of actin-binding compounds: the cytoplasm sets the tone. Cellular and Molecular Life Sciences, 2018, 75, 4539-4555.	2.4	14
68	High-Content Imaging of Unbiased Chemical Perturbations Reveals that the Phenotypic Plasticity of the Actin Cytoskeleton Is Constrained. Cell Systems, 2019, 9, 496-507.e5.	2.9	14
69	Contractility as a global regulator of cellular morphology, velocity, and directionality in low-adhesive fibrillary micro-environments. Biomaterials, 2016, 102, 137-147.	5.7	13
70	Inducible microRNA-200c decreases motility of breast cancer cells and reduces filamin A. PLoS ONE, 2019, 14, e0224314.	1.1	13
71	Influence of Surface Modifications on the Spatiotemporal Microdistribution of Quantum Dots In Vivo. Small, 2016, 12, 2641-2651.	5.2	11
72	Combined antitumoral effects of pretubulysin and methotrexate. Pharmacology Research and Perspectives, 2019, 7, e00460.	1.1	10

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73	Targeting the endoplasmic reticulum-mitochondria interface sensitizes leukemia cells to cytostatics. Haematologica, 2019, 104, 546-555.	1.7	10
74	Spatio-selective activation of nuclear translocation of YAP with light directs invasion of cancer cell spheroids. IScience, 2021, 24, 102185.	1.9	10
75	Disentangling cadherin-mediated cell-cell interactions in collective cancer cell migration. Biophysical Journal, 2022, 121, 44-60.	0.2	10
76	Catching Speedy Gonzales: Driving forces for Protein Film Formation on Silicone Rubber Tubing During Pumping. Journal of Pharmaceutical Sciences, 2022, 111, 1577-1586.	1.6	10
77	Components of the Plasminogen Activation System Promote Engraftment of Porous Polyethylene Biomaterial via Common and Distinct Effects. PLoS ONE, 2015, 10, e0116883.	1.1	9
78	Persistent inhibition of pore-based cell migration by sub-toxic doses of miuraenamide, an actin filament stabilizer. Scientific Reports, 2017, 7, 16407.	1.6	9
79	The novel brassinosteroid analog BR4848 inhibits angiogenesis in human endothelial cells and induces apoptosis in human cancer cells in vitro. Journal of Steroid Biochemistry and Molecular Biology, 2018, 178, 263-271.	1.2	8
80	Chivosazole A Modulates Proteinâ€“Protein Interactions of Actin. Journal of Natural Products, 2019, 82, 1961-1970.	1.5	8
81	Novel cilengitide-based cyclic RGD peptides as Î±vÎ² integrin inhibitors. Bioorganic and Medicinal Chemistry Letters, 2020, 30, 127039.	1.0	8
82	Selectin-mediated rolling of neutrophils is essential for their activation and retention in the reperfused coronary system. Basic Research in Cardiology, 2002, 97, 359-364.	2.5	7
83	Tetrapyrrolic Pigments from Hemeâ€•and Chlorophyll Breakdown are Actinâ€Targeting Compounds. Angewandte Chemie - International Edition, 2021, 60, 22578-22584.	7.2	7
84	Zn2+-triggered self-assembly of Gonadorelin [6-D-Phe] to produce nanostructures and fibrils. Scientific Reports, 2018, 8, 11280.	1.6	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. Journal of Pharmaceutical Sciences, 2021, 110, 2093-2104.	1.6	6
86	Turning the Actin Nucleating Compound Miuraenamide into Nucleation Inhibitors. ACS Omega, 2021, 6, 22165-22172.	1.6	5
87	In vitro and in vivo characterization of the actin polymerizing compound chondramide as an angiogenic inhibitor. Cardiovascular Research, 2014, 104, 303-314.	1.8	4
88	Nuclear actin in cancer biology. International Review of Cell and Molecular Biology, 2020, 355, 53-66.	1.6	4
89	Understanding the mechanism of action of pyrrolo[3,2-b]quinoxaline-derivatives as kinase inhibitors. RSC Medicinal Chemistry, 2020, 11, 665-675.	1.7	4
90	Catabolism of adenine nucleotides in the human heart before and after cardiac bypass surgery. Drug Development Research, 1998, 45, 159-165.	1.4	3

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91	The Dual Edema-Preventing Molecular Mechanism of the Crataegus Extract WS 1442 Can Be Assigned to Distinct Phytochemical Fractions. Planta Medica, 2017, 83, 701-709.	0.7	3
92	Adhesion of neutrophils to cultured human endothelial cells is enhanced by stimulation of adenosine A1-receptors. Drug Development Research, 1998, 45, 350-355.	1.4	2
93	Sequential and Switchable Patterning for Studying Cellular Processes under Spatiotemporal Control. ACS Applied Materials & Interfaces, 2021, 13, 35545-35560.	4.0	1
94	Using the yeast three-hybrid system for the identification of small molecule-protein interactions with the example of ethinylestradiol. Biological Chemistry, 2022, 403, 421-431.	1.2	1
95	Nanoparticles: Influence of Surface Modifications on the Spatiotemporal Microdistribution of Quantum Dots In Vivo (Small 19/2016). Small, 2016, 12, 2666-2666.	5.2	0
96	Tetrapyrrolische Pigmente aus dem HÃmâ€•und Chlorophyllabbau interagieren mit Aktin. Angewandte Chemie, 2021, 133, 22753-22760.	1.6	0
97	Ccl2 and Ccl3 mediate neutrophil recruitment through induction of protein synthesis and secondary generation of lipid mediators. FASEB Journal, 2009, 23, 762.11.	0.2	0