

Stefan Zahler

List of Publications by Year in descending order

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97
papers

3,347
citations

126858

33
h-index

168321

53
g-index

100
all docs

100
docs citations

100
times ranked

5266
citing authors

#	ARTICLE	IF	CITATIONS
1	Disentangling cadherin-mediated cell-cell interactions in collective cancer cell migration. <i>Biophysical Journal</i> , 2022, 121, 44-60.	0.2	10
2	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.	1.6	10
3	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.	1.2	1
4	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.	1.6	6
5	Spatio-selective activation of nuclear translocation of YAP with light directs invasion of cancer cell spheroids. <i>IScience</i> , 2021, 24, 102185.	1.9	10
6	Sequential and Switchable Patterning for Studying Cellular Processes under Spatiotemporal Control. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 35545-35560.	4.0	1
7	Turning the Actin Nucleating Compound Miuraenamamide into Nucleation Inhibitors. <i>ACS Omega</i> , 2021, 6, 22165-22172.	1.6	5
8	Tetrapyrrolic Pigments from Heme and Chlorophyll Breakdown are Actin-Targeting Compounds. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22578-22584.	7.2	7
9	Tetrapyrrolic Pigmente aus dem Häm- und Chlorophyllabbau interagieren mit Aktin. <i>Angewandte Chemie</i> , 2021, 133, 22753-22760.	1.6	0
10	Mechanical Aspects of Angiogenesis. <i>Cancers</i> , 2021, 13, 4987.	1.7	46
11	Cell-Based Strain Remodeling of a Nonfibrous Matrix as an Organizing Principle for Vasculogenesis. <i>Cell Reports</i> , 2020, 32, 108015.	2.9	18
12	Optical Manipulation of F-Actin with Photoswitchable Small Molecules. <i>Journal of the American Chemical Society</i> , 2020, 142, 9240-9249.	6.6	63
13	Metal-Organic Framework Nanoparticles Induce Pyroptosis in Cells Controlled by the Extracellular pH. <i>Advanced Materials</i> , 2020, 32, e1907267.	11.1	118
14	Nuclear actin in cancer biology. <i>International Review of Cell and Molecular Biology</i> , 2020, 355, 53-66.	1.6	4
15	Novel cilengitide-based cyclic RGD peptides as $\alpha_5\beta_1$ integrin inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020, 30, 127039.	1.0	8
16	Understanding the mechanism of action of pyrrolo[3,2- <i>b</i>]quinoxaline-derivatives as kinase inhibitors. <i>RSC Medicinal Chemistry</i> , 2020, 11, 665-675.	1.7	4
17	Inhibition of Cyclin-Dependent Kinase 5: A Strategy to Improve Sorafenib Response in Hepatocellular Carcinoma Therapy. <i>Hepatology</i> , 2019, 69, 376-393.	3.6	38
18	Actin stabilizing compounds show specific biological effects due to their binding mode. <i>Scientific Reports</i> , 2019, 9, 9731.	1.6	30

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19	Chivosazole A Modulates Protein-Protein Interactions of Actin. <i>Journal of Natural Products</i> , 2019, 82, 1961-1970.	1.5	8
20	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.	2.9	14
21	Combined antitumoral effects of pretubulysin and methotrexate. <i>Pharmacology Research and Perspectives</i> , 2019, 7, e00460.	1.1	10
22	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.	2.7	29
23	Fiber stiffness, pore size and adhesion control migratory phenotype of MDA-MB-231 cells in collagen gels. <i>PLoS ONE</i> , 2019, 14, e0225215.	1.1	30
24	Inducible microRNA-200c decreases motility of breast cancer cells and reduces filamin A. <i>PLoS ONE</i> , 2019, 14, e0224314.	1.1	13
25	Targeting the endoplasmic reticulum-mitochondria interface sensitizes leukemia cells to cytostatics. <i>Haematologica</i> , 2019, 104, 546-555.	1.7	10
26	Plasminogen Activator Inhibitor-1 Promotes Neutrophil Infiltration and Tissue Injury on Ischemia-Reperfusion. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 829-842.	1.1	51
27	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.	1.2	8
28	Targeting de novo lipogenesis as a novel approach in anti-cancer therapy. <i>British Journal of Cancer</i> , 2018, 118, 43-51.	2.9	47
29	Synthesis and Biological Evaluation of Modified Miuraenamides. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 6952-6965.	1.2	16
30	Transcriptional effects of actin-binding compounds: the cytoplasm sets the tone. <i>Cellular and Molecular Life Sciences</i> , 2018, 75, 4539-4555.	2.4	14
31	Micropatterning as a tool to identify regulatory triggers and kinetics of actin-mediated endothelial mechanosensing. <i>Journal of Cell Science</i> , 2018, 131, .	1.2	23
32	Zn ²⁺ -triggered self-assembly of Gonadorelin [6-D-Phe] to produce nanostructures and fibrils. <i>Scientific Reports</i> , 2018, 8, 11280.	1.6	6
33	Modulation of actin dynamics as potential macrophage subtype-targeting anti-tumour strategy. <i>Scientific Reports</i> , 2017, 7, 41434.	1.6	19
34	New natural products identified by combined genomics-metabolomics profiling of marine <i>Streptomyces</i> sp. MP131-18. <i>Scientific Reports</i> , 2017, 7, 42382.	1.6	86
35	The Dual Edema-Preventing Molecular Mechanism of the <i>Crataegus</i> Extract WS 1442 Can Be Assigned to Distinct Phytochemical Fractions. <i>Planta Medica</i> , 2017, 83, 701-709.	0.7	3
36	Inhibition of the V-ATPase by Archazolid A: A New Strategy to Inhibit EMT. <i>Molecular Cancer Therapeutics</i> , 2017, 16, 2329-2339.	1.9	14

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37	Persistent inhibition of pore-based cell migration by sub-toxic doses of miuraenamamide, an actin filament stabilizer. <i>Scientific Reports</i> , 2017, 7, 16407.	1.6	9
38	Inhibition of endothelial Cdk5 reduces tumor growth by promoting non-productive angiogenesis. <i>Oncotarget</i> , 2016, 7, 6088-6104.	0.8	32
39	Influence of Surface Modifications on the Spatiotemporal Microdistribution of Quantum Dots In Vivo. <i>Small</i> , 2016, 12, 2641-2651.	5.2	11
40	Nanoparticles: Influence of Surface Modifications on the Spatiotemporal Microdistribution of Quantum Dots In Vivo (Small 19/2016). <i>Small</i> , 2016, 12, 2666-2666.	5.2	0
41	Versatile method to generate multiple types of micropatterns. <i>Biointerphases</i> , 2016, 11, 011005.	0.6	22
42	New View on Endothelial Cell Migration. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, 2346-2357.	1.1	16
43	Contractility as a global regulator of cellular morphology, velocity, and directionality in low-adhesive fibrillary micro-environments. <i>Biomaterials</i> , 2016, 102, 137-147.	5.7	13
44	Cyclin-dependent kinase 5 stabilizes hypoxia-inducible factor-1 β : a novel approach for inhibiting angiogenesis in hepatocellular carcinoma. <i>Oncotarget</i> , 2016, 7, 27108-27121.	0.8	45
45	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.	1.5	16
46	Components of the Plasminogen Activation System Promote Engraftment of Porous Polyethylene Biomaterial via Common and Distinct Effects. <i>PLoS ONE</i> , 2015, 10, e0116883.	1.1	9
47	The Biophysical Properties of Basal Lamina Gels Depend on the Biochemical Composition of the Gel. <i>PLoS ONE</i> , 2015, 10, e0118090.	1.1	17
48	Cdk5 controls lymphatic vessel development and function by phosphorylation of Foxc2. <i>Nature Communications</i> , 2015, 6, 7274.	5.8	42
49	Endothelial Alpha-Parvin Controls Integrity of Developing Vasculature and Is Required for Maintenance of Cell-Cell Junctions. <i>Circulation Research</i> , 2015, 117, 29-40.	2.0	44
50	Targeting cyclin dependent kinase 5 in hepatocellular carcinoma – A novel therapeutic approach. <i>Journal of Hepatology</i> , 2015, 63, 102-113.	1.8	72
51	Photoswitchable Inhibitors of Microtubule Dynamics Optically Control Mitosis and Cell Death. <i>Cell</i> , 2015, 162, 403-411.	13.5	317
52	The Actin Targeting Compound Chondramide Inhibits Breast Cancer Metastasis via Reduction of Cellular Contractility. <i>PLoS ONE</i> , 2014, 9, e112542.	1.1	26
53	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.	0.2	21
54	Novel Tubulin Antagonist Pretubulysin Displays Antivascular Properties In Vitro and In Vivo. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, 294-303.	1.1	14

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55	Tissue Plasminogen Activator Promotes Postischemic Neutrophil Recruitment via Its Proteolytic and Nonproteolytic Properties. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, 1495-1504.	1.1	44
56	In vitro and in vivo characterization of the actin polymerizing compound chondramide as an angiogenic inhibitor. <i>Cardiovascular Research</i> , 2014, 104, 303-314.	1.8	4
57	Regulation of endothelial signaling and migration by v-ATPase. <i>Angiogenesis</i> , 2014, 17, 587-601.	3.7	33
58	Indirubin Derivative 6BIO Suppresses Metastasis. <i>Cancer Research</i> , 2013, 73, 6004-6012.	0.4	37
59	Trisubstituted Pyrazolopyrimidines as Novel Angiogenesis Inhibitors. <i>PLoS ONE</i> , 2013, 8, e54607.	1.1	23
60	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.	0.4	94
61	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
62	A novel approach to prevent endothelial hyperpermeability: The Crataegus extract WSÂ® 1442 targets the cAMP/Rap1 pathway. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 52, 196-205.	0.9	28
63	The vascular barrier-protecting hawthorn extract WSÂ® 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.	0.9	18
64	Anti-angiogenic effects of the tubulysin precursor pretubulysin and of simplified pretubulysin derivatives. <i>British Journal of Pharmacology</i> , 2012, 167, 1048-1061.	2.7	38
65	Roscovitine blocks leukocyte extravasation by inhibition of cyclin-dependent kinases 5 and 9. <i>British Journal of Pharmacology</i> , 2011, 163, 1086-1098.	2.7	35
66	The selective P-TEFb inhibitor CAN508 targets angiogenesis. <i>European Journal of Medicinal Chemistry</i> , 2011, 46, 4289-4294.	2.6	23
67	Twice switched at birth: Cell cycle-independent roles of the neuron-specific cyclin-dependent kinase 5 (Cdk5) in non-neuronal cells. <i>Cellular Signalling</i> , 2011, 23, 1698-1707.	1.7	39
68	Anti-angiogenic effects of purine inhibitors of cyclin dependent kinases. <i>Angiogenesis</i> , 2011, 14, 281-291.	3.7	29
69	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.	1.1	52
70	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
71	Inhibitor of Apoptosis Proteins as Novel Targets in Inflammatory Processes. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011, 31, 2240-2250.	1.1	28
72	Plasmin Inhibitors Prevent Leukocyte Accumulation and Remodeling Events in the Postischemic Microvasculature. <i>PLoS ONE</i> , 2011, 6, e17229.	1.1	54

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73	Anti-angiogenic potential of small molecular inhibitors of cyclin dependent kinases in vitro. <i>Angiogenesis</i> , 2010, 13, 239-249.	3.7	20
74	Cyclin-dependent Kinase 5 Regulates Endothelial Cell Migration and Angiogenesis. <i>Journal of Biological Chemistry</i> , 2010, 285, 35932-35943.	1.6	89
75	The Crataegus extract WSÂ® 1442 inhibits balloon catheter-induced intimal hyperplasia in the rat carotid artery by directly influencing PDGFR-Î². <i>Atherosclerosis</i> , 2010, 211, 409-417.	0.4	22
76	Investigation of the marine compound spongistatin 1 links the inhibition of PKCÎ± translocation to nonmitotic effects of tubulin antagonism in angiogenesis. <i>FASEB Journal</i> , 2009, 23, 1127-1137.	0.2	33
77	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.	1.1	96
78	Ginkgo biloba extract EGbÂ® 761 exerts anti-angiogenic effects via activation of tyrosine phosphatases. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 2122-2130.	1.6	19
79	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.	0.2	0
80	Atrial Natriuretic Peptide Protects against Histamine-Induced Endothelial Barrier Dysfunction in Vivo. <i>Molecular Pharmacology</i> , 2008, 74, 1-8.	1.0	28
81	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. <i>Endocrinology</i> , 2008, 149, 3635-3642.	1.4	25
82	Atrial Natriuretic Peptide, a Regulator of Nuclear Factor-Î²B Activation in Vivo. <i>Endocrinology</i> , 2007, 148, 332-336.	1.4	56
83	MAPK phosphataseâ€1 represents a novel anti-inflammatory target of glucocorticoids in the human endothelium. <i>FASEB Journal</i> , 2007, 21, 74-80.	0.2	81
84	Inverse In Silico Screening for Identification of Kinase Inhibitor Targets. <i>Chemistry and Biology</i> , 2007, 14, 1207-1214.	6.2	80
85	Ginkgo biloba extract EGbÂ® 761 increases endothelial nitric oxide production in vitro and in vivo. <i>Cellular and Molecular Life Sciences</i> , 2007, 64, 1715-1722.	2.4	70
86	Nuclear Factor-Î²B-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.	1.3	30
87	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.	1.4	16
88	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.	2.0	98
89	Metalloporphyrins inactivate caspaseâ€3 and â€8. <i>FASEB Journal</i> , 2005, 19, 1272-1279.	0.2	30
90	Gap-junctional coupling between neutrophils and endothelial cells: a novel modulator of transendothelial migration. <i>Journal of Leukocyte Biology</i> , 2003, 73, 118-126.	1.5	83

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91	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.	2.5	7
92	Endothelial preconditioning by transient oxidative stress reduces inflammatory responses of cultured endothelial cells to TNF α . <i>FASEB Journal</i> , 2000, 14, 555-564.	0.2	84
93	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.	0.6	26
94	Acute cardiac inflammatory responses to postischemic reperfusion during cardiopulmonary bypass. <i>Cardiovascular Research</i> , 1999, 41, 722-730.	1.8	131
95	Catabolism of adenine nucleotides in the human heart before and after cardiac bypass surgery. <i>Drug Development Research</i> , 1998, 45, 159-165.	1.4	3
96	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.	1.4	2
97	ACE-inhibition prevents postischemic coronary leukocyte adhesion and leukocyte-dependent reperfusion injury. <i>Cardiovascular Research</i> , 1997, 36, 386-395.	1.8	45