

Stefan Zahler

List of Publications by Year in descending order

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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 | Disentangling cadherin-mediated cell-cell interactions in collective cancer cell migration. <i>Biophysical Journal</i> , 2022, 121, 44-60. | 0.5 | 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. | 3.3 | 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. | 2.5 | 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. | 3.3 | 6 |
| 5 | 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 |
| 6 | Sequential and Switchable Patterning for Studying Cellular Processes under Spatiotemporal Control. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 35545-35560. | 8.0 | 1 |
| 7 | Turning the Actin Nucleating Compound Miuraenamamide into Nucleation Inhibitors. <i>ACS Omega</i> , 2021, 6, 22165-22172. | 3.5 | 5 |
| 8 | Tetrapyrrolic Pigments from Heme and Chlorophyll Breakdown are Actin-Targeting Compounds. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22578-22584. | 13.8 | 7 |
| 9 | Tetrapyrrolic Pigmente aus dem Häm- und Chlorophyllabbau interagieren mit Aktin. <i>Angewandte Chemie</i> , 2021, 133, 22753-22760. | 2.0 | 0 |
| 10 | Mechanical Aspects of Angiogenesis. <i>Cancers</i> , 2021, 13, 4987. | 3.7 | 46 |
| 11 | Cell-Based Strain Remodeling of a Nonfibrous Matrix as an Organizing Principle for Vasculogenesis. <i>Cell Reports</i> , 2020, 32, 108015. | 6.4 | 18 |
| 12 | Optical Manipulation of F-Actin with Photoswitchable Small Molecules. <i>Journal of the American Chemical Society</i> , 2020, 142, 9240-9249. | 13.7 | 63 |
| 13 | Metal-Organic Framework Nanoparticles Induce Pyroptosis in Cells Controlled by the Extracellular pH. <i>Advanced Materials</i> , 2020, 32, e1907267. | 21.0 | 118 |
| 14 | Nuclear actin in cancer biology. <i>International Review of Cell and Molecular Biology</i> , 2020, 355, 53-66. | 3.2 | 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. | 2.2 | 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. | 3.9 | 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. | 7.3 | 38 |
| 18 | Actin stabilizing compounds show specific biological effects due to their binding mode. <i>Scientific Reports</i> , 2019, 9, 9731. | 3.3 | 30 |

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|----|---|-----|-----------|
| 19 | Chivosazole A Modulates Protein-Protein Interactions of Actin. <i>Journal of Natural Products</i> , 2019, 82, 1961-1970. | 3.0 | 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. | 6.2 | 14 |
| 21 | Combined antitumoral effects of pretubulysin and methotrexate. <i>Pharmacology Research and Perspectives</i> , 2019, 7, e00460. | 2.4 | 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. | 6.3 | 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. | 2.5 | 30 |
| 24 | Inducible microRNA-200c decreases motility of breast cancer cells and reduces filamin A. <i>PLoS ONE</i> , 2019, 14, e0224314. | 2.5 | 13 |
| 25 | Targeting the endoplasmic reticulum-mitochondria interface sensitizes leukemia cells to cytostatics. <i>Haematologica</i> , 2019, 104, 546-555. | 3.5 | 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. | 2.4 | 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. | 2.5 | 8 |
| 28 | 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 |
| 29 | Synthesis and Biological Evaluation of Modified Miuraenamides. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 6952-6965. | 2.4 | 16 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | Modulation of actin dynamics as potential macrophage subtype-targeting anti-tumour strategy. <i>Scientific Reports</i> , 2017, 7, 41434. | 3.3 | 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. | 3.3 | 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. | 1.3 | 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. | 4.1 | 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. | 3.3 | 9 |
| 38 | Inhibition of endothelial Cdk5 reduces tumor growth by promoting non-productive angiogenesis. <i>Oncotarget</i> , 2016, 7, 6088-6104. | 1.8 | 32 |
| 39 | Influence of Surface Modifications on the Spatiotemporal Microdistribution of Quantum Dots In Vivo. <i>Small</i> , 2016, 12, 2641-2651. | 10.0 | 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. | 10.0 | 0 |
| 41 | Versatile method to generate multiple types of micropatterns. <i>Biointerphases</i> , 2016, 11, 011005. | 1.6 | 22 |
| 42 | New View on Endothelial Cell Migration. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, 2346-2357. | 2.4 | 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. | 11.4 | 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. | 1.8 | 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. | 3.2 | 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. | 2.5 | 9 |
| 47 | 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 |
| 48 | Cdk5 controls lymphatic vessel development and function by phosphorylation of Foxc2. <i>Nature Communications</i> , 2015, 6, 7274. | 12.8 | 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. | 4.5 | 44 |
| 50 | Targeting cyclin dependent kinase 5 in hepatocellular carcinoma – A novel therapeutic approach. <i>Journal of Hepatology</i> , 2015, 63, 102-113. | 3.7 | 72 |
| 51 | Photoswitchable Inhibitors of Microtubule Dynamics Optically Control Mitosis and Cell Death. <i>Cell</i> , 2015, 162, 403-411. | 28.9 | 317 |
| 52 | The Actin Targeting Compound Chondramide Inhibits Breast Cancer Metastasis via Reduction of Cellular Contractility. <i>PLoS ONE</i> , 2014, 9, e112542. | 2.5 | 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. | 0.5 | 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. | 2.4 | 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. | 2.4 | 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. | 3.8 | 4 |
| 57 | Regulation of endothelial signaling and migration by v-ATPase. <i>Angiogenesis</i> , 2014, 17, 587-601. | 7.2 | 33 |
| 58 | Indirubin Derivative 6BIO Suppresses Metastasis. <i>Cancer Research</i> , 2013, 73, 6004-6012. | 0.9 | 37 |
| 59 | Trisubstituted Pyrazolopyrimidines as Novel Angiogenesis Inhibitors. <i>PLoS ONE</i> , 2013, 8, e54607. | 2.5 | 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. | 0.9 | 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. | 1.9 | 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. | 1.9 | 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. | 5.4 | 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. | 5.4 | 35 |
| 66 | The selective P-TEFb inhibitor CAN508 targets angiogenesis. <i>European Journal of Medicinal Chemistry</i> , 2011, 46, 4289-4294. | 5.5 | 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. | 3.6 | 39 |
| 68 | Anti-angiogenic effects of purine inhibitors of cyclin dependent kinases. <i>Angiogenesis</i> , 2011, 14, 281-291. | 7.2 | 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. | 2.4 | 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. | 2.4 | 28 |
| 72 | Plasmin Inhibitors Prevent Leukocyte Accumulation and Remodeling Events in the Postischemic Microvasculature. <i>PLoS ONE</i> , 2011, 6, e17229. | 2.5 | 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. | 7.2 | 20 |
| 74 | Cyclin-dependent Kinase 5 Regulates Endothelial Cell Migration and Angiogenesis. <i>Journal of Biological Chemistry</i> , 2010, 285, 35932-35943. | 3.4 | 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. | 0.8 | 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. | 0.5 | 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. | 2.4 | 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. | 3.6 | 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. | 0.5 | 0 |
| 80 | Atrial Natriuretic Peptide Protects against Histamine-Induced Endothelial Barrier Dysfunction in Vivo. <i>Molecular Pharmacology</i> , 2008, 74, 1-8. | 2.3 | 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. | 2.8 | 25 |
| 82 | Atrial Natriuretic Peptide, a Regulator of Nuclear Factor-Î²B Activation in Vivo. <i>Endocrinology</i> , 2007, 148, 332-336. | 2.8 | 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. | 0.5 | 81 |
| 84 | Inverse In Silico Screening for Identification of Kinase Inhibitor Targets. <i>Chemistry and Biology</i> , 2007, 14, 1207-1214. | 6.0 | 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. | 5.4 | 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. | 2.5 | 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. | 3.3 | 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. | 4.5 | 98 |
| 89 | Metalloporphyrins inactivate caspaseâ€3 and â€8. <i>FASEB Journal</i> , 2005, 19, 1272-1279. | 0.5 | 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. | 3.3 | 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. | 5.9 | 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. | 0.5 | 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. | 1.4 | 26 |
| 94 | Acute cardiac inflammatory responses to posts ischemic reperfusion during cardiopulmonary bypass. <i>Cardiovascular Research</i> , 1999, 41, 722-730. | 3.8 | 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. | 2.9 | 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. | 2.9 | 2 |
| 97 | ACE-inhibition prevents posts ischemic coronary leukocyte adhesion and leukocyte-dependent reperfusion injury. <i>Cardiovascular Research</i> , 1997, 36, 386-395. | 3.8 | 45 |