

Geert Schmid-Schoenbein

List of Publications by Year in descending order

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131
papers

4,508
citations

87723

38
h-index

114278

63
g-index

133
all docs

133
docs citations

133
times ranked

4237
citing authors

#	ARTICLE	IF	CITATIONS
1	Continuous enteral protease inhibition as a novel treatment for experimental trauma/hemorrhagic shock. <i>European Journal of Trauma and Emergency Surgery</i> , 2022, 48, 1579-1588.	0.8	6
2	Anti-Obesity Effect of Rice Bran Extract on High-Fat Diet-Induced Obese Mice. <i>Preventive Nutrition and Food Science</i> , 2022, 27, 172-179.	0.7	6
3	Fluid shear stress-mediated mechanotransduction in circulating leukocytes and its defect in microvascular dysfunction. <i>Journal of Biomechanics</i> , 2021, 120, 110394.	0.9	4
4	Enhanced intestinal permeability and intestinal co-morbidities in heat strain: A review and case for autodigestion. <i>Temperature</i> , 2021, 8, 223-244.	1.7	3
5	Digestive Enzyme Activity and Protein Degradation in Plasma of Heart Failure Patients. <i>Cellular and Molecular Bioengineering</i> , 2021, 14, 583-596.	1.0	3
6	Inhibition of Serine Protease Activity Protects Against High Fat Diet-Induced Inflammation and Insulin Resistance. <i>Scientific Reports</i> , 2020, 10, 1725.	1.6	20
7	Fine control of endothelial VEGFR-2 activation: caveolae as fluid shear stress shelters for membrane receptors. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019, 18, 5-16.	1.4	18
8	A Lifetime Achievement in Bioengineering: Professor Shu Chien. <i>Annals of Biomedical Engineering</i> , 2019, 47, 2147-2150.	1.3	0
9	Pancreatic source of protease activity in the spontaneously hypertensive rat and its reduction during temporary food restriction. <i>Microcirculation</i> , 2019, 26, e12548.	1.0	4
10	Elevated Resting and Postprandial Digestive Proteolytic Activity in Peripheral Blood of Individuals With Type-2 Diabetes Mellitus, With Uncontrolled Cleavage of Insulin Receptors. <i>Journal of the American College of Nutrition</i> , 2019, 38, 485-492.	1.1	4
11	IGF-1 receptor cleavage in hypertension. <i>Hypertension Research</i> , 2018, 41, 406-413.	1.5	10
12	Proteolysis in septic shock patients: plasma peptidomic patterns are associated with mortality. <i>British Journal of Anaesthesia</i> , 2018, 121, 1065-1074.	1.5	37
13	Cleavage of the leptin receptor by matrix metalloproteinase-2 promotes leptin resistance and obesity in mice. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	46
14	Heart period and blood pressure characteristics in splanchnic arterial occlusion shock-induced collapse. <i>Journal of Clinical Monitoring and Computing</i> , 2017, 31, 167-175.	0.7	7
15	Fluid shear-induced cathepsin B release in the control of Mac1-dependent neutrophil adhesion. <i>Journal of Leukocyte Biology</i> , 2017, 102, 117-126.	1.5	7
16	Preliminary profiling of blood transcriptome in a rat model of hemorrhagic shock. <i>Experimental Biology and Medicine</i> , 2017, 242, 1462-1470.	1.1	6
17	The autodigestion hypothesis: Proteolytic receptor cleavage in rheological and cardiovascular cell dysfunction1. <i>Biorheology</i> , 2017, 53, 179-191.	1.2	2
18	Proteolytic receptor cleavage in the pathogenesis of blood rheology and co-morbidities in metabolic syndrome. Early forms of autodigestion. <i>Biorheology</i> , 2016, 52, 337-352.	1.2	9

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19	Thrombin generation assay in untreated whole human blood. <i>Electrophoresis</i> , 2016, 37, 2248-2256.	1.3	2
20	Can Fishy Odor Be a Risk Factor for Coronary Artery Disease? —. <i>Journal of the American College of Cardiology</i> , 2016, 67, 2629-2630.	1.2	1
21	Set up of a protocol for rat plasma peptidomics in hemorrhagic shock model in presence of heparin. <i>EuPA Open Proteomics</i> , 2016, 12, 1-3.	2.5	3
22	Control of overweight and obesity in childhood through education in meal time habits. The “good manners for a healthy future” programme. <i>Pediatric Obesity</i> , 2016, 11, 484-490.	1.4	21
23	Is Matrix Metalloproteinase-8 Activity in the Mucosal Barrier a Requirement for Leakage of Cecal Material in Peritonitis?*. <i>Critical Care Medicine</i> , 2016, 44, 854-855.	0.4	4
24	ShockOmics: multiscale approach to the identification of molecular biomarkers in acute heart failure induced by shock. <i>Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine</i> , 2016, 24, 9.	1.1	20
25	Four-and-a-Half LIM Domains Protein 2 Is a Coactivator of Wnt Signaling in Diabetic Kidney Disease. <i>Journal of the American Society of Nephrology: JASN</i> , 2015, 26, 3072-3084.	3.0	34
26	Transmural Intestinal Wall Permeability in Severe Ischemia after Enteral Protease Inhibition. <i>PLoS ONE</i> , 2014, 9, e96655.	1.1	25
27	Cellular and molecular basis of Venous insufficiency. <i>Vascular Cell</i> , 2014, 6, 24.	0.2	56
28	Cleavage and reduced CD36 ectodomain density on heart and spleen macrophages in the Spontaneously Hypertensive Rat. <i>Microvascular Research</i> , 2014, 95, 131-142.	1.1	9
29	The Autodigestion Hypothesis for Shock and Multi-organ Failure. <i>Annals of Biomedical Engineering</i> , 2014, 42, 405-414.	1.3	26
30	The oxygen free radicals control MMP-9 and transcription factors expression in the spontaneously hypertensive rat. <i>Microvascular Research</i> , 2013, 90, 154-161.	1.1	13
31	Receptor cleavage and P-selectin-dependent reduction of leukocyte adhesion in the spontaneously hypertensive rat. <i>Journal of Leukocyte Biology</i> , 2012, 92, 183-194.	1.5	15
32	An elementary analysis of physiologic shock and multi-organ failure: The Autodigestion Hypothesis. , 2012, 2012, 3114-5.		4
33	Disruption of the Mucosal Barrier During Gut Ischemia Allows Entry of Digestive Enzymes Into the Intestinal Wall. <i>Shock</i> , 2012, 37, 297-305.	1.0	65
34	Nitric oxide (NO) side of lymphatic flow and immune surveillance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 3-4.	3.3	47
35	An Emerging Role of Degrading Proteinases in Hypertension and the Metabolic Syndrome: Autodigestion and Receptor Cleavage. <i>Current Hypertension Reports</i> , 2012, 14, 88-96.	1.5	16
36	Mucin Protects against Trypsin-mediated Increases in Intestinal Epithelial Permeability. <i>FASEB Journal</i> , 2012, 26, 275.8.	0.2	0

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37	Proteolytically derived inflammatory peptides from the bowel may circulate systemically in shock. FASEB Journal, 2012, 26, 1132-7.	0.2	0
38	Systematic polymorphism discovery after genome-wide identification of potential susceptibility loci in a hereditary rodent model of human hypertension. Blood Pressure, 2011, 20, 222-231.	0.7	10
39	Acute venous occlusion enhances matrix metalloprotease activity: Implications on endothelial dysfunction. Microvascular Research, 2011, 81, 108-116.	1.1	18
40	Matrix Metalloproteinase Activity Causes VEGFR α 2 Cleavage and Microvascular Rarefaction in Rat Mesentery. Microcirculation, 2011, 18, 228-237.	1.0	20
41	Proteolytic Cleavage of the Red Blood Cell Glycocalyx in a Genetic Form of Hypertension. Cellular and Molecular Bioengineering, 2011, 4, 678-692.	1.0	18
42	Constitutive Expression and Enzymatic Cleavage of ICAM-1 in the Spontaneously Hypertensive Rat. Journal of Vascular Research, 2011, 48, 386-396.	0.6	19
43	The Autodigestion Hypothesis in Shock and Multi-Organ Failure: Degrading Protease Activity. Boletim Da Sociedade Portuguesa De Hemorreologia E MicrocirculaçãŁo, 2011, 26, 6-15.	0.0	3
44	New hypothesis for insulin resistance in hypertension due to receptor cleavage. Expert Review of Endocrinology and Metabolism, 2010, 5, 149-158.	1.2	22
45	Internalization of Formyl Peptide Receptor in Leukocytes Subject to Fluid Stresses. Cellular and Molecular Bioengineering, 2010, 3, 20-29.	1.0	10
46	Lymphatic/Blood Endothelial Cell Connections at the Capillary Level in Adult Rat Mesentery. Anatomical Record, 2010, 293, spc1-spc1.	0.8	0
47	Receptor cleavage reduces the fluid shear response in neutrophils of the spontaneously hypertensive rat. American Journal of Physiology - Cell Physiology, 2010, 299, C1441-C1449.	2.1	31
48	Enhanced Matrix Metalloproteinase Activity in the Spontaneously Hypertensive Rat: VEGFR-2 Cleavage, Endothelial Apoptosis, and Capillary Rarefaction. Journal of Vascular Research, 2010, 47, 423-431.	0.6	65
49	Matrix metalloproteinases cleave the β -adrenergic receptor in spontaneously hypertensive rats. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 299, H25-H35.	1.5	74
50	Toll-like receptor signaling mechanisms in hostile neutrophils. Focus on Bone marrow MyD88 signaling modulates neutrophil function and ischemic myocardial injury. American Journal of Physiology - Cell Physiology, 2010, 299, C731-C732.	2.1	3
51	Nuclear factor- κ B expression and matrix metalloproteinase activity in hypertension. FASEB Journal, 2010, 24, 592.1.	0.2	0
52	Matrix Metalloproteinases: Discrete Elevations in Essential Hypertension and Hypertensive End-Stage Renal Disease. Clinical and Experimental Hypertension, 2009, 31, 521-533.	0.5	78
53	Biomechanics: Cell Research and Applications for the Next Decade. Annals of Biomedical Engineering, 2009, 37, 847-859.	1.3	169
54	2008 Landis Award Lecture Inflammation and the Autodigestion Hypothesis. Microcirculation, 2009, 16, 289-306.	1.0	25

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55	Blockade of Pancreatic Digestive Proteases in Severe Hemorrhagic Shock Enhances Long-term Survival Rate. FASEB Journal, 2009, 23, 594.13.	0.2	0
56	Proteinase Activity and Receptor Cleavage. Hypertension, 2008, 52, 415-423.	1.3	95
57	Contribution of Leukocytes to Capillary Hemostasis in the Spontaneously Hypertensive Rat. FASEB Journal, 2008, 22, 732.5.	0.2	0
58	Enhanced Matrix Metalloproteinase Activity in Microvascular Endothelium of the Spontaneously Hypertensive Rat. FASEB Journal, 2008, 22, 731.5.	0.2	0
59	Microvascular Network Restructuring Associated with MMP Inhibition in Spontaneously Hypertensive Rats. FASEB Journal, 2008, 22, 732.8.	0.2	1
60	Shock survival improved by combined protease and lipase inhibition in the intestinal lumen. FASEB Journal, 2008, 22, .	0.2	0
61	Biomechanical aspects of the auto-digestion theory. MCB Molecular and Cellular Biomechanics, 2008, 5, 83-95.	0.3	7
62	The Primary Valves in the Initial Lymphatics during Inflammation. Lymphatic Research and Biology, 2007, 5, 3-10.	0.5	51
63	A journey with Tony Hugli up the inflammatory cascade towards the auto-digestion hypothesis. International Immunopharmacology, 2007, 7, 1845-1851.	1.7	6
64	Analysis of primary valve structure along initial lymphatic networks in adult rat mesentery. FASEB Journal, 2007, 21, A490.	0.2	0
65	ANALYSIS OF INFLAMMATION. Annual Review of Biomedical Engineering, 2006, 8, 93-151.	5.7	154
66	Decentralized and adaptive control of nonlinear fluid flow networks. International Journal of Control, 2006, 79, 1495-1504.	1.2	25
67	Microvascular Display of Xanthine Oxidase and NADPH Oxidase in the Spontaneously Hypertensive Rat. Microcirculation, 2006, 13, 551-566.	1.0	41
68	Chronotropic Response of Cultured Neonatal Rat Ventricular Myocytes to Short-Term Fluid Shear. Cell Biochemistry and Biophysics, 2006, 46, 113-122.	0.9	27
69	G protein-coupled receptors serve as mechanosensors for fluid shear stress in neutrophils. American Journal of Physiology - Cell Physiology, 2006, 290, C1633-C1639.	2.1	100
70	A New Hypothesis for Microvascular Inflammation in Shock and Multiorgan Failure: Self-Digestion by Pancreatic Enzymes. Microcirculation, 2005, 12, 71-82.	1.0	46
71	Transport Processes in Biomedical Systems: A Roadmap for Future Research Directions. Annals of Biomedical Engineering, 2005, 33, 1136-1141.	1.3	6
72	Mechanics of Curved Plasma Membrane Vesicles: Resting Shapes, Membrane Curvature, and In-Plane Shear Elasticity. Journal of Biomechanical Engineering, 2005, 127, 229-236.	0.6	14

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73	Leukocyte fluid shear response in the presence of glucocorticoid. <i>Journal of Leukocyte Biology</i> , 2004, 75, 664-670.	1.5	24
74	Contribution of Fluid Shear Response in Leukocytes to Hemodynamic Resistance in the Spontaneously Hypertensive Rat. <i>Circulation Research</i> , 2004, 95, 100-108.	2.0	62
75	Enhancement of Glucocorticoid and Mineralocorticoid Receptor Density in the Microcirculation of the Spontaneously Hypertensive Rat. <i>Microcirculation</i> , 2004, 11, 69-78.	1.0	44
76	Pancreatic Trypsin Increases Matrix Metalloproteinase-9 Accumulation and Activation during Acute Intestinal Ischemia-Reperfusion in the Rat. <i>American Journal of Pathology</i> , 2004, 164, 1707-1716.	1.9	79
77	Xanthine oxidase activity in the dexamethasone-induced hypertensive rat. <i>Microvascular Research</i> , 2003, 66, 30-37.	1.1	53
78	The Second Valve System in Lymphatics. <i>Lymphatic Research and Biology</i> , 2003, 1, 25-31.	0.5	87
79	The Inflammatory Aspect of the Microcirculation in Hypertension: Oxidative Stress, Leukocytes/Endothelial Interaction, Apoptosis. <i>Microcirculation</i> , 2002, 9, 259-276.	1.0	128
80	Microvascular Cell Death in Spontaneously Hypertensive Rats During Experimental Inflammation. <i>Microcirculation</i> , 2002, 9, 397-405.	1.0	3
81	Microvascular Cell Death in Spontaneously Hypertensive Rats During Experimental Inflammation. <i>Microcirculation</i> , 2002, 9, 397-405.	1.0	1
82	New Advances in the Understanding of the Pathophysiology of Chronic Venous Insufficiency. <i>Angiology</i> , 2001, 52, S27-S34.	0.8	79
83	Pancreatic Enzymes and Microvascular Cell Activation in Multiorgan Failure. <i>Microcirculation</i> , 2001, 8, 5-14.	1.0	14
84	Microvascular Endothelial Cell Death and Rarefaction in the Glucocorticoid-Induced Hypertensive Rat. <i>Microcirculation</i> , 2001, 8, 129-139.	1.0	51
85	Evidence for a second valve system in lymphatics: endothelial microvalves. <i>FASEB Journal</i> , 2001, 15, 1711-1717.	0.2	151
86	CELL ACTIVATION IN THE CIRCULATION. <i>Advanced Series in Biomechanics</i> , 2001, , 185-216.	0.1	0
87	Pancreatic enzymes and microvascular cell activation in multiorgan failure. <i>Microcirculation</i> , 2001, 8, 5-14.	1.0	3
88	Microvascular endothelial cell death and rarefaction in the glucocorticoid-induced hypertensive rat. <i>Microcirculation</i> , 2001, 8, 129-39.	1.0	30
89	Mechanisms for cell activation and its consequences for biorheology and microcirculation: Multi-organ failure in shock. <i>Biorheology</i> , 2001, 38, 185-201.	1.2	14
90	The Pancreas as a Source of Cardiovascular Cell Activating Factors. <i>Microcirculation</i> , 2000, 7, 183-192.	1.0	49

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91	Propagation of Viral-Size Particles in Lymph and Blood after Subcutaneous Inoculation. <i>Microcirculation</i> , 2000, 7, 193-200.	1.0	18
92	Microcirculation Supplement: Microcirculation and Chronic Venous Insufficiency. <i>Microcirculation</i> , 2000, 7, S1-S2.	1.0	0
93	Therapeutic Management of Chronic Venous Insufficiency: Microcirculation as a Target. <i>Microcirculation</i> , 2000, 7, S23.	1.0	3
94	Microcirculatory Inflammation in Chronic Venous Insufficiency: Current Status and Future Directions. <i>Microcirculation</i> , 2000, 7, S49.	1.0	15
95	Mechanisms of Parenchymal Cell Death In-vivo after Microvascular Hemorrhage. <i>Microcirculation</i> , 2000, 7, 1-11.	1.0	5
96	The Inflammatory Reaction During Venous Hypertension in the Rat. <i>Microcirculation</i> , 2000, 7, 41-52.	1.0	46
97	Propagation of Viral-Size Particles in Lymph and Blood after Subcutaneous Inoculation. , 2000, 7, 193.		4
98	The Pancreas as a Source of Cardiovascular Cell Activating Factors. , 2000, 7, 183.		14
99	Chained Vesicles in Vascular Endothelial Cells. <i>Journal of Biomechanical Engineering</i> , 1999, 121, 472-479.	0.6	9
100	Transport of colloidal particles in lymphatics and vasculature after subcutaneous injection. <i>Journal of Applied Physiology</i> , 1999, 86, 1381-1387.	1.2	20
101	A Mechanism of Oxygen Free Radical Production in the Dahl Hypertensive Rat. <i>Microcirculation</i> , 1999, 6, 179-187.	1.0	97
102	Mast Cell Degranulation and Parenchymal Cell Injury in the Rat Mesentery. <i>Microcirculation</i> , 1999, 6, 237-244.	1.0	6
103	Biomechanics of Microcirculatory Blood Perfusion. <i>Annual Review of Biomedical Engineering</i> , 1999, 1, 73-102.	5.7	57
104	A Mechanism of Oxygen Free Radical Production in the Dahl Hypertensive Rat. , 1999, 6, 179.		18
105	A Mechanism of Oxygen Free Radical Production in the Dahl Hypertensive Rat. <i>Microcirculation</i> , 1999, 6, 179-187.	1.0	3
106	Role of xanthine oxidase in hydrogen peroxide production. <i>Free Radical Biology and Medicine</i> , 1998, 25, 720-727.	1.3	77
107	Leukocyte contribution to parenchymal cell death in an experimental model of inflammation. <i>Journal of Leukocyte Biology</i> , 1997, 62, 163-175.	1.5	11
108	Attenuation of Oxygen Free Radical Formation and Tissue Injury During Experimental Inflammation by P-selectin Blockade. <i>Microcirculation</i> , 1997, 4, 349-357.	1.0	32

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109	Experimental Antileukocyte Interventions in Cerebral Ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1996, 16, 1108-1119.	2.4	148
110	Effects of induced tolerance to bacterial lipopolysaccharide on myocardial infarct size in rats. <i>Cardiovascular Research</i> , 1996, 31, 73-81.	1.8	33
111	Modification of leukocyte adhesion in spontaneously hypertensive rats by adrenal corticosteroids. <i>Journal of Leukocyte Biology</i> , 1995, 57, 20-26.	1.5	53
112	Leukocytes in Capillary Flow. <i>International Journal of Microcirculation, Clinical and Experimental</i> , 1995, 15, 255-264.	0.6	18
113	Biomechanics of skeletal muscle capillaries: Hemodynamic resistance, endothelial distensibility, and pseudopod formation. <i>Annals of Biomedical Engineering</i> , 1995, 23, 226-246.	1.3	86
114	Membrane Model of Endothelial Cells and Leukocytes. A Proposal for the Origin of a Cortical Stress. <i>Journal of Biomechanical Engineering</i> , 1995, 117, 171-178.	0.6	59
115	Characterization of rat LECAM-1 (L-selectin) by the use of monoclonal antibodies and evidence for the presence of soluble LECAM-1 in rat sera. <i>European Journal of Immunology</i> , 1993, 23, 2181-2188.	1.6	87
116	Spontaneous activation of circulating granulocytes in patients with acute myocardial and cerebral diseases. <i>Biorheology</i> , 1992, 29, 549-561.	1.2	21
117	Leukocyte counts and activation in spontaneously hypertensive and normotensive rats.. <i>Hypertension</i> , 1991, 17, 323-330.	1.3	171
118	Mechanisms causing initial lymphatics to expand and compress to promote lymph flow.. <i>Archives of Histology and Cytology</i> , 1990, 53, 107-114.	0.2	54
119	Perspectives of leukocyte activation in the microcirculation. <i>Biorheology</i> , 1990, 27, 859-869.	1.2	15
120	Microlymphatics and lymph flow. <i>Physiological Reviews</i> , 1990, 70, 987-1028.	13.1	549
121	Wall structure of arteries and arterioles feeding the spinotrapezius muscle of normotensive and spontaneously hypertensive rats. <i>International Journal of Microcirculation, Clinical and Experimental</i> , 1990, 9, 47-66.	0.6	6
122	Granulocyte activation and capillary obstruction. <i>Monographs on Atherosclerosis</i> , 1990, 15, 150-9.	0.0	5
123	A high precision dual feedback pump for unsteady perfusion of small organs. <i>Annals of Biomedical Engineering</i> , 1989, 17, 269-278.	1.3	5
124	A Theory of Blood Flow in Skeletal Muscle. <i>Journal of Biomechanical Engineering</i> , 1988, 110, 20-26.	0.6	19
125	Cell separation in the buffy coat. <i>Biorheology</i> , 1988, 25, 663-673.	1.2	12
126	Effects of AQA-39 on granulocytes in the microcirculation of rat mesentery. <i>European Heart Journal</i> , 1987, 8, 75-81.	1.0	2

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127	Rheology of Leukocytes. Annals of the New York Academy of Sciences, 1987, 516, 333-347.	1.8	43
128	The Interaction between Leukocytes and Endothelium in Vivo. Annals of the New York Academy of Sciences, 1987, 516, 348-361.	1.8	38
129	Leukocyte kinetics in the microcirculation. Biorheology, 1987, 24, 139-151.	1.2	25
130	Granulocytes as active participants in acute myocardial ischemia and infarction. The American Journal of Cardiovascular Pathology, 1987, 1, 15-30.	0.1	51
131	Deformation of leukocytes on a hematological blood film. Biorheology, 1984, 21, 767-781.	1.2	10