Frank A D T G Wagener

List of Publications by Year
in descending order

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74 papers	3,426 citations	201674 27 h-index	144013 57 g-index
80 all docs	80 docs citations	80 times ranked	4851 citing authors

#	Article	IF	Citations
1	Different Faces of the Heme-Heme Oxygenase System in Inflammation. Pharmacological Reviews, 2003, 55, 551-571.	16.0	503
2	Heme is a potent inducer of inflammation in mice and is counteracted by heme oxygenase. Blood, 2001, 98, 1802-1811.	1.4	383
3	Heme Induces the Expression of Adhesion Molecules ICAM-1, VCAM-1, and E Selectin in Vascular Endothelial Cells. Experimental Biology and Medicine, 1997, 216, 456-463.	2.4	205
4	The macrophage heme-heme oxygenase-1 system and its role in inflammation. Biochemical Pharmacology, 2018, 153, 159-167.	4.4	187
5	Design Considerations for Hydrogel Wound Dressings: Strategic and Molecular Advances. Tissue Engineering - Part B: Reviews, 2020, 26, 230-248.	4.8	153
6	Targeting the Redox Balance in Inflammatory Skin Conditions. International Journal of Molecular Sciences, 2013, 14, 9126-9167.	4.1	149
7	The heme-heme oxygenase system: a molecular switch in wound healing. Blood, 2003, 102, 521-528.	1.4	122
8	The role of reactive oxygen species in apoptosis of the diabetic kidney. Apoptosis: an International Journal on Programmed Cell Death, 2009, 14, 1451-1458.	4.9	110
9	The Bilirubin-Increasing Drug Atazanavir Improves Endothelial Function in Patients With Type 2 Diabetes Mellitus. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 458-463.	2.4	99
10	Curcuminâ€induced fibroblast apoptosis and in vitro wound contraction are regulated by antioxidants and heme oxygenase: implications for scar formation. Journal of Cellular and Molecular Medicine, 2009, 13, 712-725.	3.6	96
11	Thermosensitive biomimetic polyisocyanopeptide hydrogels may facilitate wound repair. Biomaterials, 2018, 181, 392-401.	11.4	90
12	Remote ischaemic preconditioning by brief hind limb ischaemia protects against renal ischaemia-reperfusion injury: the role of adenosine. Nephrology Dialysis Transplantation, 2011, 26, 3108-3117.	0.7	74
13	Heme Oxygenase, Inflammation, and Fibrosis: The Good, the Bad, and the Ugly?. Frontiers in Pharmacology, 2012, 3, 81.	3.5	72
14	Heme-induced cell adhesion in the pathogenesis of sickle-cell disease and inflammation. Trends in Pharmacological Sciences, 2001, 22, 52-54.	8.7	64
15	Targeting the Heme-Heme Oxygenase System to Prevent Severe Complications Following COVID-19 Infections. Antioxidants, 2020, 9, 540.	5.1	63
16	Involvement of VDAC, Bax and Ceramides in the Efflux of AIF from Mitochondria during Curcumin-Induced Apoptosis. PLoS ONE, 2009, 4, e6688.	2.5	62
17	Vitamin A and clefting: putative biological mechanisms. Nutrition Reviews, 2011, 69, 613-624.	5.8	56
18	Optimal force magnitude for bodily orthodontic tooth movement with fixed appliances: A systematic review. American Journal of Orthodontics and Dentofacial Orthopedics, 2019, 156, 582-592.	1.7	48

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19	Defining the standards for medical grade honey. Journal of Apicultural Research, 2020, 59, 125-135.	1.5	48
20	Curcumin-Induced Heme Oxygenase-1 Expression Prevents H2O2-Induced Cell Death in Wild Type and Heme Oxygenase-2 Knockout Adipose-Derived Mesenchymal Stem Cells. International Journal of Molecular Sciences, 2014, 15, 17974-17999.	4.1	41
21	Strategies to Improve Regeneration of the Soft Palate Muscles After Cleft Palate Repair. Tissue Engineering - Part B: Reviews, 2012, 18, 468-477.	4.8	40
22	Hepcidin suppression and defective iron recycling account for dysregulation of iron homeostasis in heme oxygenaseâ€1 deficiency. Journal of Cellular and Molecular Medicine, 2009, 13, 3091-3102.	3.6	37
23	HMOX1 promoter polymorphism modulates the relationship between disease activity and joint damage in rheumatoid arthritis. Arthritis and Rheumatism, 2008, 58, 3388-3393.	6.7	35
24	Diannexin Protects against Renal Ischemia Reperfusion Injury and Targets Phosphatidylserines in Ischemic Tissue. PLoS ONE, 2011, 6, e24276.	2.5	35
25	Rate of orthodontic tooth movement after changing the force magnitude: an experimental study in beagle dogs. Orthodontics and Craniofacial Research, 2010, 13, 238-245.	2.8	33
26	Synergistic Antimicrobial Activity of Supplemented Medical-Grade Honey against Pseudomonas aeruginosa Biofilm Formation and Eradication. Antibiotics, 2020, 9, 866.	3.7	29
27	Low heme oxygenase-1 levels in patients with systemic sclerosis are associated with an altered Toll-like receptor response: another role for CXCL4?. Rheumatology, 2016, 55, 2066-2073.	1.9	28
28	The Heme-Heme Oxygenase System in Wound Healing; Implications for Scar Formation. Current Drug Targets, 2010, 11, 1571-1585.	2.1	28
29	Retinoic acid disrupts osteogenesis in pre-osteoblasts by down-regulating WNT signaling. International Journal of Biochemistry and Cell Biology, 2019, 116, 105597.	2.8	27
30	Recent advances in bioprinting technologies for engineering hepatic tissue. Materials Science and Engineering C, 2021, 123, 112013.	7.3	26
31	Orofacial Muscles: Embryonic Development and Regeneration after Injury. Journal of Dental Research, 2020, 99, 125-132.	5.2	25
32	A Rat Model for Muscle Regeneration in the Soft Palate. PLoS ONE, 2013, 8, e59193.	2.5	24
33	Zebrafish Models of Craniofacial Malformations: Interactions of Environmental Factors. Frontiers in Cell and Developmental Biology, 2020, 8, 600926.	3.7	24
34	Humoral signalling compounds in remote ischaemic preconditioning of the kidney, a role for the opioid receptor. Nephrology Dialysis Transplantation, 2013, 28, 1721-1732.	0.7	23
35	Mechanical cues in orofacial tissue engineering and regenerative medicine. Wound Repair and Regeneration, 2015, 23, 302-311.	3.0	23
36	Circulating Lipoproteins Are a Crucial Component of Host Defense against Invasive Salmonella typhimurium Infection. PLoS ONE, 2009, 4, e4237.	2.5	23

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37	Monitoring ¹¹¹In-labelled polyisocyanopeptide (PIC) hydrogel wound dressings in full-thickness wounds. Biomaterials Science, 2019, 7, 3041-3050.	5.4	22
38	Cell-type-specific downregulation of heme oxygenase-1 by lipopolysaccharide via Bach1 in primary human mononuclear cells. Free Radical Biology and Medicine, 2015, 78, 224-232.	2.9	21
39	Tissue engineering strategies combining molecular targets against inflammation and fibrosis, and umbilical cord blood stem cells to improve hampered muscle and skin regeneration following cleft repair. Medicinal Research Reviews, 2020, 40, 9-26.	10.5	21
40	Curcumin induces differential expression of cytoprotective enzymes but similar apoptotic responses in fibroblasts and myofibroblasts. Experimental Cell Research, 2015, 330, 429-441.	2.6	19
41	Heme Oxygenase-1 and Breast Cancer Resistance Protein Protect Against Hemeinduced Toxicity. Current Pharmaceutical Design, 2013, 19, 2698-2707.	1.9	19
42	Revolutionizing non-conventional wound healing using honey by simultaneously targeting multiple molecular mechanisms. Drug Resistance Updates, 2022, 62, 100834.	14.4	18
43	Erythropoietin Attenuates Pulmonary Vascular Remodeling in Experimental Pulmonary Arterial Hypertension through Interplay between Endothelial Progenitor Cells and Heme Oxygenase. Frontiers in Pediatrics, 2015, 3, 71.	1.9	17
44	Novel Synthetic Polymer-Based 3D Contraction Assay: A Versatile Preclinical Research Platform for Fibrosis. ACS Applied Materials & Interfaces, 2022, 14, 19212-19225.	8.0	17
45	Mechanical Stress Changes the Complex Interplay Between HO-1, Inflammation and Fibrosis, During Excisional Wound Repair. Frontiers in Medicine, 2015, 2, 86.	2.6	16
46	Fgf8a mutation affects craniofacial development and skeletal gene expression in zebrafish larvae. Biology Open, 2019, 8, .	1.2	16
47	Fibrosis impairs the formation of new myofibers in the soft palate after injury. Wound Repair and Regeneration, 2015, 23, 866-873.	3.0	15
48	Parenteral bilirubin in healthy volunteers: a reintroduction in translational research. British Journal of Clinical Pharmacology, 2018, 84, 268-279.	2.4	15
49	Delayed cutaneous wound closure in HO â€2 deficient mice despite normal HO â€1 expression. Journal of Cellular and Molecular Medicine, 2014, 18, 2488-2498.	3.6	14
50	Dihydroorotate dehydrogenase depletion hampers mitochondrial function and osteogenic differentiation in osteoblasts. European Journal of Oral Sciences, 2016, 124, 241-245.	1.5	13
51	The anti-epileptic drug valproic acid causes malformations in the developing craniofacial skeleton of zebrafish larvae. Mechanisms of Development, 2020, 163, 103632.	1.7	12
52	Cytoprotective responses in HaCaT keratinocytes exposed to high doses of curcumin. Experimental Cell Research, 2015, 336, 298-307.	2.6	11
53	Neonatal Satellite Cells Form Small Myotubes In Vitro. Journal of Dental Research, 2017, 96, 331-338.	5.2	11
54	Polyisocyanopeptide Hydrogels Are Effectively Sterilized Using Supercritical Carbon Dioxide. Tissue Engineering - Part C: Methods, 2020, 26, 132-141.	2.1	9

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55	CXCL12-CXCR4 Interplay Facilitates Palatal Osteogenesis in Mice. Frontiers in Cell and Developmental Biology, 2020, 8, 771.	3.7	7
56	Isolation and Characterization of Satellite Cells from Rat Head Branchiomeric Muscles. Journal of Visualized Experiments, 2015, , e52802.	0.3	6
57	Vascular and metabolic effects of the haem oxygenase-1 inducer haem arginate in subjects with the metabolic syndrome: A translational cross-over study. Diabetes and Vascular Disease Research, 2016, 13, 41-48.	2.0	6
58	Chemokine Signaling during Midline Epithelial Seam Disintegration Facilitates Palatal Fusion. Frontiers in Cell and Developmental Biology, 2017, 5, 94.	3.7	5
59	Heme as Possible Contributing Factor in the Evolvement of Shiga-Toxin Escherichia coli Induced Hemolytic-Uremic Syndrome. Frontiers in Immunology, 2020, 11, 547406.	4.8	5
60	Medical-Grade Honey Outperforms Conventional Treatments for Healing Cold Soresâ€”A Clinical Study. Pharmaceuticals, 2021, 14, 1264.	3.8	5
61	Effects of Remote Ischemic Preconditioning on Heme Oxygenase-1 Expression and Cutaneous Wound Repair. International Journal of Molecular Sciences, 2017, 18, 438.	4.1	4
62	Distinct Effect of Retroviral-Mediated IFN-alpha Gene Transfer on Human Erythroleukemic and CD34+Cell Growth and Differentiation. Journal of Hematotherapy and Stem Cell Research, 1999, 8, 491-502.	1.8	3
63	Orthodontic Forces Induce the Cytoprotective Enzyme Heme Oxygenase-1 in Rats. Frontiers in Physiology, 2016, 7, 283.	2.8	3
64	Functional analysis of the rat soft palate by real-time wireless electromyography. Archives of Oral Biology, 2021, 122, 105021.	1.8	2
65	Fibrin with Laminin-Nidogen Reduces Fibrosis and Improves Soft Palate Regeneration Following Palatal Injury. Biomolecules, 2021, 11, 1547.	4.0	2
66	Hydrazine-induced liver toxicity is enhanced by glutathione depletion but is not mediated by oxidative stress in HepG2 cells. International Journal of Antimicrobial Agents, 2009, 34, 385-386.	2.5	1
67	Modulating TLR responses in systemic sclerosis via heme oxygenase-1. Annals of the Rheumatic Diseases, 2010, 69, A39-A40.	0.9	1
68	Locally administered adipose derived mesenchymal stem cells reinforce their anti-inflammatory effect through IL-1Î² mediated attraction of neutrophils into knee joints with experimental osteoarthritis. Osteoarthritis and Cartilage, 2015, 23, A379-A380.	1.3	1
69	Editorial: Molecular Mechanisms Protecting against Tissue Injury. Frontiers in Pharmacology, 2016, 7, 272.	3.5	1
70	Heme Oxygenase Protects against Placental Vascular Inflammation and Abortion by the Alarmin Heme in Mice. International Journal of Molecular Sciences, 2020, 21, 5385.	4.1	1
71	Protective mechanisms harnessing against injurious heme and preventing kidney damage in STEC-HUS: toward new therapies?. Kidney International, 2022, 101, 1107-1109.	5.2	1
72	OP0146â€…Locally Administered Adipose Derived Mesenchymal Stem Cells Augment their Anti-Inflammatory Efficacy Through IL-1Î² Mediated Influx of Neutrophils into Knee Joints with Experimental Osteoarthritis. Annals of the Rheumatic Diseases, 2015, 74, 123.3-124.	0.9	0

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73	A8.19â€...Locally administrated adipose derived mesenchymal stem cells reinforce their anti-inflammatory effect through IL-1Î² mediated attraction of neutrophils into knee joints with experimental osteoarthritis. Annals of the Rheumatic Diseases, 2015, 74, A89.1-A89.	0.9	0
74	Heme oxygenase-1 promoter polymorphisms do not influence susceptibility to systemic sclerosis and its clinical phenotypes. Clinical and Experimental Rheumatology, 2013, 31, 186.	0.8	0