

Thomas Pufe

List of Publications by Year in descending order

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91
papers

3,544
citations

109321

35
h-index

149698

56
g-index

94
all docs

94
docs citations

94
times ranked

5166
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of oxidative stress in rheumatoid arthritis: insights from the Nrf2-knockout mice. <i>Annals of the Rheumatic Diseases</i> , 2011, 70, 844-850.	0.9	223
2	The splice variants VEGF121 and VEGF189 of the angiogenic peptide vascular endothelial growth factor are expressed in osteoarthritic cartilage. <i>Arthritis and Rheumatism</i> , 2001, 44, 1082-1088.	6.7	169
3	Vascular endothelial growth factor (VEGF) induces matrix metalloproteinase expression in immortalized chondrocytes. <i>Journal of Pathology</i> , 2004, 202, 367-374.	4.5	164
4	Mechanical Overload Induces VEGF in Cartilage Discs via Hypoxia-Inducible Factor. <i>American Journal of Pathology</i> , 2004, 164, 185-192.	3.8	136
5	Antimicrobial peptides are expressed and produced in healthy and inflamed human synovial membranes. <i>Journal of Pathology</i> , 2002, 198, 369-377.	4.5	117
6	Sulforaphane suppresses LPS-induced inflammation in primary rat microglia. <i>Inflammation Research</i> , 2010, 59, 443-450.	4.0	116
7	Kavalactones Protect Neural Cells against Amyloid β^2 Peptide-Induced Neurotoxicity via Extracellular Signal-Regulated Kinase 1/2-Dependent Nuclear Factor Erythroid 2-Related Factor 2 Activation. <i>Molecular Pharmacology</i> , 2008, 73, 1785-1795.	2.3	108
8	Nrf2 in health and disease: current and future clinical implications. <i>Clinical Science</i> , 2015, 129, 989-999.	4.3	101
9	Antimicrobial Peptides: Multifunctional Drugs for Different Applications. <i>Polymers</i> , 2012, 4, 539-560.	4.5	96
10	Cyclic strain influences the expression of the vascular endothelial growth factor (VEGF) and the hypoxia inducible factor 1 alpha (HIF-1 α) in tendon fibroblasts. <i>Journal of Orthopaedic Research</i> , 2004, 22, 847-853.	2.3	95
11	Intraarticular injection of platelet-rich plasma reduces inflammation in a pig model of rheumatoid arthritis of the knee joint. <i>Arthritis and Rheumatism</i> , 2011, 63, 3344-3353.	6.7	93
12	Interplay between Vascular Endothelial Growth Factor (VEGF) and Nuclear Factor Erythroid 2-related Factor-2 (Nrf2). <i>Journal of Biological Chemistry</i> , 2011, 286, 42863-42872.	3.4	85
13	Quantitative measurement of the splice variants 120 and 164 of the angiogenic peptide vascular endothelial growth factor in the time flow of fracture healing: a study in the rat. <i>Cell and Tissue Research</i> , 2002, 309, 387-392.	2.9	81
14	Platelet-released growth factors can accelerate tenocyte proliferation and activate the anti-oxidant response element. <i>Histochemistry and Cell Biology</i> , 2011, 135, 453-460.	1.7	81
15	Role of platelet-released growth factors in detoxification of reactive oxygen species in osteoblasts. <i>Bone</i> , 2014, 65, 9-17.	2.9	68
16	Oral administration of methysticin improves cognitive deficits in a mouse model of Alzheimer's disease. <i>Redox Biology</i> , 2017, 12, 843-853.	9.0	62
17	The role of vascular endothelial growth factor in glucocorticoid-induced bone loss: evaluation in a minipig model. <i>Bone</i> , 2003, 33, 869-876.	2.9	61
18	Mechanical factors influence the expression of endostatin, an inhibitor of angiogenesis, in tendons. <i>Journal of Orthopaedic Research</i> , 2003, 21, 610-616.	2.3	58

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19	Osteoblasts participate in the innate immunity of the bone by producing human beta defensin-3. <i>Histochemistry and Cell Biology</i> , 2009, 131, 207-218.	1.7	56
20	Platelets display potent antimicrobial activity and release human beta-defensin 2. <i>Platelets</i> , 2012, 23, 217-223.	2.3	53
21	Differential Expression of Vascular Endothelial Growth Factor in Glucocorticoid-related Osteonecrosis of the Femoral Head. <i>Clinical Orthopaedics and Related Research</i> , 2009, 467, 3273-3282.	1.5	50
22	A possible protective role of Nrf2 in preeclampsia. <i>Annals of Anatomy</i> , 2014, 196, 268-277.	1.9	48
23	Role of Nrf2 in Fracture Healing: Clinical Aspects of Oxidative Stress. <i>Calcified Tissue International</i> , 2019, 105, 341-352.	3.1	46
24	Thrombocytes are effectors of the innate immune system releasing human beta defensin-3. <i>Injury</i> , 2011, 42, 682-686.	1.7	44
25	Expression and regulation of antimicrobial peptides in articular joints. <i>Annals of Anatomy</i> , 2005, 187, 499-508.	1.9	43
26	The influence of biomechanical parameters on the expression of VEGF and endostatin in the bone and joint system. <i>Annals of Anatomy</i> , 2005, 187, 461-472.	1.9	42
27	Sulforaphane has opposing effects on TNF-alpha stimulated and unstimulated synoviocytes. <i>Arthritis Research and Therapy</i> , 2012, 14, R220.	3.5	41
28	Nrf2 Deficiency Impairs Fracture Healing in Mice. <i>Calcified Tissue International</i> , 2014, 95, 349-361.	3.1	40
29	Quantitative OCT and MRI biomarkers for the differentiation of cartilage degeneration. <i>Skeletal Radiology</i> , 2016, 45, 505-516.	2.0	39
30	Mechanical Forces Induce Changes in VEGF and VEGFR-1/sFlt-1 Expression in Human Chondrocytes. <i>International Journal of Molecular Sciences</i> , 2014, 15, 15456-15474.	4.1	38
31	A Role for Nrf2 in Redox Signalling of the Invasive Extravillous Trophoblast in Severe Early Onset IUGR Associated with Preeclampsia. <i>PLoS ONE</i> , 2012, 7, e47055.	2.5	38
32	Enoxaparin Prevents Steroid-Related Avascular Necrosis of the Femoral Head. <i>Scientific World Journal</i> , The, 2014, 2014, 1-6.	2.1	36
33	Rivaroxaban does not impair fracture healing in a rat femur fracture model: an experimental study. <i>BMC Musculoskeletal Disorders</i> , 2015, 16, 79.	1.9	36
34	Ex vivo quantitative multiparametric MRI mapping of human meniscus degeneration. <i>Skeletal Radiology</i> , 2016, 45, 1649-1660.	2.0	36
35	Role of a fetal defence mechanism against oxidative stress in the aetiology of preeclampsia. <i>Histopathology</i> , 2009, 55, 102-106.	2.9	35
36	Functional MR Imaging Mapping of Human Articular Cartilage Response to Loading. <i>Radiology</i> , 2017, 282, 464-474.	7.3	35

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37	Expansion of functional personalized cells with specific transgene combinations. <i>Nature Communications</i> , 2018, 9, 994.	12.8	35
38	Programmable cells of monocytic origin (PCMO): A source of peripheral blood stem cells that generate collagen type II-producing chondrocytes. <i>Journal of Orthopaedic Research</i> , 2008, 26, 304-313.	2.3	34
39	Platelet-released growth factors induce the antimicrobial peptide human beta-defensin-2 in primary keratinocytes. <i>Experimental Dermatology</i> , 2016, 25, 460-465.	2.9	33
40	The effect of platelet rich plasma on angiogenesis in ischemic flaps in VEGFR2-luc mice. <i>Biomaterials</i> , 2013, 34, 2674-2682.	11.4	30
41	The antimicrobial peptide HBD-2 and the Toll-like receptors-2 and -4 are induced in synovial membranes in case of septic arthritis. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2009, 454, 685-694.	2.8	29
42	The angiogenic peptide vascular endothelial growth factor (VEGF) is expressed in chronic sacral pressure ulcers. <i>Journal of Pathology</i> , 2003, 200, 130-136.	4.5	28
43	Platelet-Released Growth Factors Modulate the Secretion of Cytokines in Synoviocytes under Inflammatory Joint Disease. <i>Mediators of Inflammation</i> , 2017, 2017, 1-9.	3.0	28
44	Inhibition of formyl peptide receptors improves the outcome in a mouse model of Alzheimer disease. <i>Journal of Neuroinflammation</i> , 2020, 17, 131.	7.2	27
45	Lack of Proinflammatory Cytokine Interleukin-6 or Tumor Necrosis Factor Receptor-1 Results in a Failure of the Innate Immune Response after Bacterial Meningitis. <i>Mediators of Inflammation</i> , 2016, 2016, 1-12.	3.0	26
46	The Role of Adipose Stem Cells in Bone Regeneration and Bone Tissue Engineering. <i>Cells</i> , 2021, 10, 975.	4.1	26
47	Aggregated Tau-PHF6 (VQIVYK) Potentiates NLRP3 Inflammasome Expression and Autophagy in Human Microglial Cells. <i>Cells</i> , 2021, 10, 1652.	4.1	26
48	Expression of Natural Peptide Antibiotics in Human Articular Cartilage and Synovial Membrane. <i>Vaccine Journal</i> , 2001, 8, 1021-1023.	2.6	25
49	Bone-preserving total hip arthroplasty in avascular necrosis of the hip—a matched-pairs analysis. <i>International Orthopaedics</i> , 2018, 42, 1509-1516.	1.9	23
50	Bioreactor-Controlled Physoxia Regulates TGF- β 2 Signaling to Alter Extracellular Matrix Synthesis by Human Chondrocytes. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1715.	4.1	23
51	The Antimicrobial Peptide Lysozyme Is Induced after Multiple Trauma. <i>Mediators of Inflammation</i> , 2014, 2014, 1-7.	3.0	22
52	Toll-Like Receptor 2-Mediated Glial Cell Activation in a Mouse Model of Cuprizone-Induced Demyelination. <i>Molecular Neurobiology</i> , 2018, 55, 6237-6249.	4.0	22
53	Role of Phospholipase D in G-Protein Coupled Receptor Function. <i>Membranes</i> , 2014, 4, 302-318.	3.0	20
54	Nrf2 Ameliorates DDC-Induced Sclerosing Cholangitis and Biliary Fibrosis and Improves the Regenerative Capacity of the Liver. <i>Toxicological Sciences</i> , 2019, 169, 485-498.	3.1	20

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55	Nrf2 Protects Against TWEAK-mediated Skeletal Muscle Wasting. <i>Scientific Reports</i> , 2014, 4, 3625.	3.3	19
56	Different Frequency of Cyclic Tensile Strain Relates to Anabolic/Catabolic Conditions Consistent with Immunohistochemical Staining Intensity in Tenocytes. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1082.	4.1	19
57	Towards Optical Coherence Tomography-based elastographic evaluation of human cartilage. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 56, 106-119.	3.1	18
58	The effects of Nrf2 deletion on placental morphology and exchange capacity in the mouse. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2017, 30, 2068-2073.	1.5	18
59	Intrathecal application of the antimicrobial peptide CRAMP reduced mortality and neuroinflammation in an experimental model of pneumococcal meningitis. <i>Journal of Infection</i> , 2015, 71, 188-199.	3.3	17
60	Impaired Fracture Healing after Hemorrhagic Shock. <i>Mediators of Inflammation</i> , 2015, 2015, 1-7.	3.0	16
61	The Antimicrobial Peptide Human Beta-Defensin-3 Is Induced by Platelet-Released Growth Factors in Primary Keratinocytes. <i>Mediators of Inflammation</i> , 2017, 2017, 1-8.	3.0	16
62	Formyl Peptide Receptor 1-Mediated Glial Cell Activation in a Mouse Model of Cuprizone-Induced Demyelination. <i>Journal of Molecular Neuroscience</i> , 2017, 62, 232-243.	2.3	15
63	Platelet-released growth factors induce psoriasin in keratinocytes: Implications for the cutaneous barrier. <i>Annals of Anatomy</i> , 2017, 213, 25-32.	1.9	15
64	Lack of Toll-like receptor 2 results in higher mortality of bacterial meningitis by impaired host resistance. <i>Journal of Neuroimmunology</i> , 2016, 299, 90-97.	2.3	14
65	Involvement of Phospholipase D 1 and 2 in the subcellular localization and activity of formyl-peptide-receptors in the human colonic cell line HT29. <i>Molecular Membrane Biology</i> , 2009, 26, 371-383.	2.0	13
66	Optical coherence tomography-based parameterization and quantification of articular cartilage surface integrity. <i>Biomedical Optics Express</i> , 2015, 6, 2398.	2.9	13
67	CRAMP deficiency leads to a pro-inflammatory phenotype and impaired phagocytosis after exposure to bacterial meningitis pathogens. <i>Cell Communication and Signaling</i> , 2017, 15, 32.	6.5	13
68	Platelet-Released Growth Factors Induce Differentiation of Primary Keratinocytes. <i>Mediators of Inflammation</i> , 2017, 2017, 1-12.	3.0	13
69	Evaluation of Single-Impact-Induced Cartilage Degeneration by Optical Coherence Tomography. <i>BioMed Research International</i> , 2015, 2015, 1-11.	1.9	12
70	A new multiple trauma model of the mouse. <i>BMC Musculoskeletal Disorders</i> , 2017, 18, 468.	1.9	12
71	The formyl peptide receptor agonist Ac2-26 alleviates neuroinflammation in a mouse model of pneumococcal meningitis. <i>Journal of Neuroinflammation</i> , 2020, 17, 325.	7.2	12
72	Platelet-Released Growth Factors and Platelet-Rich Fibrin Induce Expression of Factors Involved in Extracellular Matrix Organization in Human Keratinocytes. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4404.	4.1	12

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73	Local pamidronate influences fracture healing in a rodent femur fracture model: an experimental study. <i>BMC Musculoskeletal Disorders</i> , 2016, 17, 255.	1.9	11
74	Platelet-released growth factors inhibit proliferation of primary keratinocytes in vitro. <i>Annals of Anatomy</i> , 2018, 215, 1-7.	1.9	11
75	Adverse Effects of Oxidative Stress on Bone and Vasculature in Corticosteroid-Associated Osteonecrosis: Potential Role of Nuclear Factor Erythroid 2-Related Factor 2 in Cytoprotection. <i>Antioxidants and Redox Signaling</i> , 2021, 35, 357-376.	5.4	11
76	Sulforaphane-Dependent Up-Regulation of NRF2 Activity Alleviates Both Systemic Inflammatory Response and Lung Injury After Hemorrhagic Shock/Resuscitation in Mice. <i>Shock</i> , 2022, 57, 221-229.	2.1	11
77	Impact of Uniaxial Stretching on Both Gliding and Traction Areas of Tendon Explants in a Novel Bioreactor. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2925.	4.1	9
78	Effects of Strontium-Doped β -Tricalcium Scaffold on Longitudinal Nuclear Factor-Kappa Beta and Vascular Endothelial Growth Factor Receptor-2 Promoter Activities during Healing in a Murine Critical-Size Bone Defect Model. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3208.	4.1	9
79	Nrf2/ARE Signaling Directly Regulates SOX9 to Potentially Alter Age-Dependent Cartilage Degeneration. <i>Antioxidants</i> , 2022, 11, 263.	5.1	8
80	Sulforaphane Exerts Beneficial Immunomodulatory Effects on Liver Tissue via a Nrf2 Pathway-Related Mechanism in a Murine Model of Hemorrhagic Shock and Resuscitation. <i>Frontiers in Immunology</i> , 2022, 13, 822895.	4.8	8
81	Inhalative IL-10 treatment after bilateral femoral fractures affect pulmonary inflammation in mice. <i>Annals of Anatomy</i> , 2015, 200, 73-78.	1.9	7
82	Lack of chemokine (C-C motif) ligand 3 leads to decreased survival and reduced immune response after bacterial meningitis. <i>Cytokine</i> , 2018, 111, 246-254.	3.2	7
83	Transient Focal Cerebral Ischemia Leads to miRNA Alterations in Different Brain Regions, Blood Serum, Liver, and Spleen. <i>International Journal of Molecular Sciences</i> , 2022, 23, 161.	4.1	7
84	Effect of platelet mediator concentrate (PMC) on Achilles tenocytes: an in vitro study. <i>BMC Musculoskeletal Disorders</i> , 2016, 17, 307.	1.9	6
85	Psoriasis has divergent effects on the innate immune responses of murine glial cells. <i>Journal of Neurochemistry</i> , 2017, 141, 86-99.	3.9	5
86	Impact of Nrf2 on esophagus epithelium cornification. <i>International Journal of Dermatology</i> , 2011, 50, 1362-1365.	1.0	4
87	Impact of FGF1 on human periodontal ligament fibroblast growth, osteogenic differentiation and inflammatory reaction in vitro. <i>Journal of Orofacial Orthopedics</i> , 2022, 83, 42-55.	1.3	4
88	Abrasion arthroplasty increases mesenchymal stem cell content of postoperative joint effusions. <i>BMC Musculoskeletal Disorders</i> , 2015, 16, 250.	1.9	3
89	Physosmotic Induction of Chondrogenic Maturation Is TGF- β 2 Dependent and Enhanced by Calcineurin Inhibitor FK506. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5110.	4.1	3
90	The protective effect of platelet released growth factors and bone augmentation (Bio-Oss \hat{A}) on ethanol impaired osteoblasts. <i>Annals of Anatomy</i> , 2017, 214, 36-42.	1.9	2

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91	Platelet-released growth factors protect articular chondrocytes from inflammatory condition. Annals of Anatomy, 2021, 238, 151787.	1.9	0