Themis R Kyriakides

List of Publications by Year
in descending order

111 papers	8,308 citations	34105 52 h-index	48315 88 g-index
111 all docs	111 docs citations	111 times ranked	10225 citing authors

#	Article	IF	Citations
1	Foreign body response to synthetic polymer biomaterials and the role of adaptive immunity. Biomedical Materials (Bristol), 2022, 17, 022007.	3.3	20
2	Locally delivered adjuvant biofilmâ€penetrating antibiotics rescue impaired endochondral fracture healing caused by MRSA infection. Journal of Orthopaedic Research, 2021, 39, 402-414.	2.3	13
3	Biocompatibility of nanomaterials and their immunological properties. Biomedical Materials (Bristol), 2021, 16, 042005.	3.3	54
4	Loss of endothelial glucocorticoid receptor promotes angiogenesis via upregulation of Wnt/Î²-catenin pathway. Angiogenesis, 2021, 24, 631-645.	7.2	18
5	Biocompatibility of platinum-based bulk metallic glass in orthopedic applications. Biomedical Materials (Bristol), 2021, 16, 045018.	3.3	8
6	Dual therapeutic targeting of intra-articular inflammation and intracellular bacteria enhances chondroprotection in septic arthritis. Science Advances, 2021, 7, .	10.3	21
7	Integrin Î²3 targeting biomaterial preferentially promotes secretion of bFGF and viability of iPSC-derived vascular smooth muscle cells. Biomaterials Science, 2021, 9, 5319-5329.	5.4	4
8	Extracellular matrix-derived biomaterials in engineering cell function. Biotechnology Advances, 2020, 42, 107421.	11.7	163
9	An in situ collagenâ€HA hydrogel system promotes survival and preserves the proangiogenic secretion of hiPSCâ€derived vascular smooth muscle cells. Biotechnology and Bioengineering, 2020, 117, 3912-3923.	3.3	17
10	The role of extracellular matrix in the pathophysiology of diabetic wounds. Matrix Biology Plus, 2020, 6-7, 100037.	3.5	36
11	Cell interactions with polymers. , 2020, , 275-293.		3
12	Glycocalyxâ€Like Hydrogel Coatings for Small Diameter Vascular Grafts. Advanced Functional Materials, 2020, 30, 1908963.	14.9	33
13	Elevated Thrombospondin 2 Contributes to Delayed Wound Healing in Diabetes. Diabetes, 2019, 68, 2016-2023.	0.6	23
14	The impact of modulating the bloodâ€“brain barrier on the electrophysiological and histological outcomes of intracortical electrodes. Journal of Neural Engineering, 2019, 16, 046005.	3.5	6
15	LMO7 Is a Negative Feedback Regulator of Transforming Growth Factor Î² Signaling and Fibrosis. Circulation, 2019, 139, 679-693.	1.6	63
16	Decellularized materials derived from TSP2-KO mice promote enhanced neovascularization and integration in diabetic wounds. Biomaterials, 2018, 169, 61-71.	11.4	31
17	Endothelial Cell Autonomous Role of Akt1. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 870-879.	2.4	34
18	HIF-1Î± represses the expression of the angiogenesis inhibitor thrombospondin-2. Matrix Biology, 2018, 65, 45-58.	3.6	26

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19	Tunable Hydrogels Derived from Genetically Engineered Extracellular Matrix Accelerate Diabetic Wound Healing. ACS Applied Materials & Interfaces, 2018, 10, 41892-41901.	8.0	33
20	Nanopatterned bulk metallic glass-based biomaterials modulate macrophage polarization. Acta Biomaterialia, 2018, 75, 427-438.	8.3	57
21	Regulation of Mesenchymal Stem Cell Differentiation by Nanopatterning of Bulk Metallic Glass. Scientific Reports, 2018, 8, 8758.	3.3	41
22	Hierarchical Micro- and Nanopatterning of Metallic Glass to Engineer Cellular Responses. ACS Applied Bio Materials, 2018, 1, 51-58.	4.6	12
23	Elevated Thrombospondinâ€2 Contributes to Delayed Wound Healing in Diabetes. FASEB Journal, 2018, 32, 414.3.	0.5	1
24	The host response to naturally-derived extracellular matrix biomaterials. Seminars in Immunology, 2017, 29, 72-91.	5.6	111
25	Multicompartment Drug Release System for Dynamic Modulation of Tissue Responses. Advanced Healthcare Materials, 2017, 6, 1700370.	7.6	14
26	The role of myeloid cell-derived PDGF-B in neotissue formation in a tissue-engineered vascular graft. Regenerative Medicine, 2017, 12, 249-261.	1.7	16
27	Redox Signaling in Diabetic Wound Healing Regulates Extracellular Matrix Deposition. Antioxidants and Redox Signaling, 2017, 27, 823-838.	5.4	144
28	Nanopatterned Bulk Metallic Glass Biosensors. ACS Sensors, 2017, 2, 1779-1787.	7.8	26
29	Improving inÂvivo outcomes of decellularized vascular grafts via incorporation of a novel extracellular matrix. Biomaterials, 2017, 141, 63-73.	11.4	48
30	Impaired von Willebrand factor adhesion and platelet response in thrombospondin-2 knockout mice. Blood, 2016, 128, 1642-1650.	1.4	25
31	Inadequate Processing of Decellularized Dermal Matrix Reduces Cell Viability <i>In Vitro</i> and Increases Apoptosis and Acute Inflammation <i>In Vivo</i>. BioResearch Open Access, 2016, 5, 177-187.	2.6	30
32	New Functional Tools for Antithrombogenic Activity Assessment of Live Surface Glycocalyx. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 1847-1853.	2.4	18
33	Regulation of cell-cell fusion by nanotopography. Scientific Reports, 2016, 6, 33277.	3.3	30
34	Matricellular proteins in drug delivery: Therapeutic targets, active agents, and therapeutic localization. Advanced Drug Delivery Reviews, 2016, 97, 56-68.	13.7	39
35	Nanoparticle delivery of miR-223 to attenuate macrophage fusion. Biomaterials, 2016, 89, 127-135.	11.4	25
36	Angiogenesis and Vasculogenesis in Health and Disease. BioMed Research International, 2015, 2015, 1-2.	1.9	21

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37	Click-coated, heparinized, decellularized vascular grafts. Acta Biomaterialia, 2015, 13, 177-187.	8.3	65
38	Up-regulation of Thrombospondin-2 in Akt1-null Mice Contributes to Compromised Tissue Repair Due to Abnormalities in Fibroblast Function. Journal of Biological Chemistry, 2015, 290, 409-422.	3.4	14
39	Histologic changes of the fetal membranes after fetoscopic laser surgery for twin-twin transfusion syndrome. Pediatric Research, 2015, 78, 247-255.	2.3	40
40	Molecular Events at Tissueâ€“Biomaterial Interface. , 2015, , 81-116.		13
41	Molecular Characterization of Macrophage-Biomaterial Interactions. Advances in Experimental Medicine and Biology, 2015, 865, 109-122.	1.6	42
42	Nanomaterials, Inflammation, and Tissue Engineering. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2015, 7, 355-370.	6.1	84
43	Linking the foreign body response and protein adsorption to PEG-based hydrogels using proteomics. Biomaterials, 2015, 41, 26-36.	11.4	129
44	Immunomodulation by mesenchymal stem cells combats the foreign body response to cell-laden synthetic hydrogels. Biomaterials, 2015, 41, 79-88.	11.4	122
45	Loss of monocyte chemoattractant protein-1 alters macrophage polarization and reduces NFÎºB activation in the foreign body response. Acta Biomaterialia, 2015, 11, 37-47.	8.3	56
46	Thrombospondin-2 and extracellular matrix assembly. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 2396-2402.	2.4	92
47	Matricellular proteins and biomaterials. Matrix Biology, 2014, 37, 183-191.	3.6	51
48	Angiopoietin-2 Secretion by Endothelial Cell Exosomes. Journal of Biological Chemistry, 2014, 289, 510-519.	3.4	79
49	Endothelial Akt1 mediates angiogenesis by phosphorylating multiple angiogenic substrates. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12865-12870.	7.1	120
50	Engineering Cellular Response Using Nanopatterned Bulk Metallic Glass. ACS Nano, 2014, 8, 4366-4375.	14.6	91
51	The effect of inflammatory cell-derived MCP-1 loss on neuronal survival during chronic neuroinflammation. Biomaterials, 2014, 35, 6698-6706.	11.4	48
52	An electrospun scaffold integrating nucleic acid delivery for treatment of full-thickness wounds. Biomaterials, 2013, 34, 3891-3901.	11.4	89
53	A peptide-morpholino oligomer conjugate targeting Staphylococcus aureus gyrA mRNA improves healing in an infected mouse cutaneous wound model. International Journal of Pharmaceutics, 2013, 453, 651-655.	5.2	37
54	Understanding the host response to cell-laden poly(ethylene glycol)-based hydrogels. Biomaterials, 2013, 34, 952-964.	11.4	30

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55	Nanoparticle-based evaluation of bloodâ€"brain barrier leakage during the foreign body response. Journal of Neural Engineering, 2013, 10, 016013.	3.5	19
56	Macrophage Î²2 Integrinâ€"Mediated, HuR-Dependent Stabilization of Angiogenic Factorâ€"Encoding mRNAs in Inflammatory Angiogenesis. American Journal of Pathology, 2012, 180, 1751-1760.	3.8	47
57	Inflammasome components Asc and caspase-1 mediate biomaterial-induced inflammation and foreign body response. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20095-20100.	7.1	91
58	Lack of TNF-Î±â€"Induced MMP-9 Production and Abnormal E-Cadherin Redistribution Associated with Compromised Fusion in MCP-1â€"Null Macrophages. American Journal of Pathology, 2011, 178, 2311-2321.	3.8	54
59	Astrocyte-Derived Thrombospondin-2 Is Critical for the Repair of the Blood-Brain Barrier. American Journal of Pathology, 2011, 179, 860-868.	3.8	39
60	Temporal progression of the host response to implanted poly(ethylene glycol)â€based hydrogels. Journal of Biomedical Materials Research - Part A, 2011, 96A, 621-631.	4.0	70
61	Biodegradation, biocompatibility, and drug delivery in poly(Ï‰-pentadecalactone-co-p-dioxanone) copolyesters. Biomaterials, 2011, 32, 6646-6654.	11.4	49
62	Tissueâ€engineered vascular grafts form neovessels that arise from regeneration of the adjacent blood vessel. FASEB Journal, 2011, 25, 2731-2739.	0.5	136
63	A critical role for macrophages in neovessel formation and the development of stenosis in tissueâ€engineered vascular grafts. FASEB Journal, 2011, 25, 4253-4263.	0.5	199
64	Endothelial nitric oxide synthase controls the expression of the angiogenesis inhibitor thrombospondin 2. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E1137-45.	7.1	62
65	Macrophage fusion leading to foreign body giant cell formation persists under phagocytic stimulation by microspheres <i>in vitro</i> and <i>in vivo</i> in mouse models. Journal of Biomedical Materials Research - Part A, 2010, 93A, 189-199.	4.0	33
66	Characterization of the <i>in vitro</i> macrophage response and <i>in vivo</i> host response to poly(ethylene glycol)â€based hydrogels. Journal of Biomedical Materials Research - Part A, 2010, 93A, 941-953.	4.0	120
67	Increased Marrow-Derived Osteoprogenitor Cells and Endosteal Bone Formation in Mice Lacking Thrombospondin 2. Journal of Bone and Mineral Research, 2010, 15, 851-862.	2.8	85
68	Dual delivery of VEGF and MCP-1 to support endothelial cell transplantation for therapeutic vascularization. Biomaterials, 2010, 31, 3054-3062.	11.4	85
69	Tissue-engineered vascular grafts transform into mature blood vessels via an inflammation-mediated process of vascular remodeling. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4669-4674.	7.1	495
70	CXCR3-dependent accumulation and activation of perivascular macrophages is necessary for homeostatic arterial remodeling to hemodynamic stresses. Journal of Experimental Medicine, 2010, 207, 1951-1966.	8.5	84
71	Reticulon 4B (Nogo-B) is necessary for macrophage infiltration and tissue repair. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 17511-17516.	7.1	82
72	Macrophage fusion, giant cell formation, and the foreign body response require matrix metalloproteinase 9. Journal of Leukocyte Biology, 2009, 85, 617-626.	3.3	137

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73	The role of thrombospondins in wound healing, ischemia, and the foreign body reaction. Journal of Cell Communication and Signaling, 2009, 3, 215-225.	3.4	91
74	Bulk metallic glasses for biomedical applications. Jom, 2009, 61, 21-29.	1.9	273
75	On-line observation of cell growth in a three-dimensional matrix on surface-modified microelectrode arrays. Biomaterials, 2009, 30, 3110-3117.	11.4	25
76	Mice that lack matrix metalloproteinase-9 display delayed wound healing associated with delayed reepithelization and disordered collagen fibrillogenesis. Matrix Biology, 2009, 28, 65-73.	3.6	144
77	Matrix metalloproteinase-9 deficiency leads to prolonged foreign body response in the brain associated with increased IL-1Î² levels and leakage of the blood-brain barrier. Matrix Biology, 2009, 28, 148-159.	3.6	43
78	Enhanced Angiogenesis and Reduced Contraction in Thrombospondin-2â€“null Wounds Is Associated With Increased Levels of Matrix Metalloproteinases-2 and â^'9, and Soluble VEGF. Journal of Histochemistry and Cytochemistry, 2009, 57, 301-313.	2.5	47
79	Thrombospondin 2-null mice display an altered brain foreign body response to polyvinyl alcohol sponge implants. Biomedical Materials (Bristol), 2009, 4, 015010.	3.3	9
80	Engineered molecular delivery for control and enhancement of transplanted endothelial cell fate in tissue engineering. , 2009, , .		0
81	Small-diameter biodegradable scaffolds for functional vascular tissue engineering in the mouse model. Biomaterials, 2008, 29, 1454-1463.	11.4	160
82	Thrombospondin-2 Modulates Extracellular Matrix Remodeling during Physiological Angiogenesis. American Journal of Pathology, 2008, 173, 879-891.	3.8	95
83	Essential Role of DAP12 Signaling in Macrophage Programming into a Fusion-Competent State. Science Signaling, 2008, 1, ra11.	3.6	92
84	Endothelial Expression of Î²1 Integrin Is Required for Embryonic Vascular Patterning and Postnatal Vascular Remodeling. Molecular and Cellular Biology, 2008, 28, 794-802.	2.3	83
85	Thrombospondin says no to NO. Blood, 2007, 109, 1793-1793.	1.4	3
86	Foreign Body Giant Cell Formation Is Preceded by Lamellipodia Formation and Can Be Attenuated by Inhibition of Rac1 Activation. American Journal of Pathology, 2007, 171, 632-640.	3.8	88
87	Thrombospondin 2 deficiency influences extracellular matrix assembly leading to increased ischemiaâ€induced angiogenesis and arteriogenesis. FASEB Journal, 2007, 21, A529.	0.5	0
88	Biodegradation of poly(anhydride-esters) into non-steroidal anti-inflammatory drugs and their effect on Pseudomonas aeruginosa biofilms in vitro and on the foreign-body response in vivo. Biomaterials, 2006, 27, 5039-5048.	11.4	67
89	SPARC-thrombospondin-2-double-null Mice Exhibit Enhanced Cutaneous Wound Healing and Increased Fibrovascular Invasion of Subcutaneous Polyvinyl Alcohol Sponges. Journal of Histochemistry and Cytochemistry, 2005, 53, 571-581.	2.5	29
90	Proteolysis of Cell-Surface Tissue Transglutaminase by Matrix Metalloproteinase-2 Contributes to the Adhesive Defect and Matrix Abnormalities in Thrombospondin-2-Null Fibroblasts and Mice. American Journal of Pathology, 2005, 167, 81-88.	3.8	58

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91	The role of thrombospondins 1 and 2 in the regulation of cellâ€“matrix interactions, collagen fibril formation, and the response to injury. International Journal of Biochemistry and Cell Biology, 2004, 36, 1115-1125.	2.8	193
92	The CC Chemokine Ligand, CCL2/MCP1, Participates in Macrophage Fusion and Foreign Body Giant Cell Formation. American Journal of Pathology, 2004, 165, 2157-2166.	3.8	198
93	Thrombospondin 2 levels are increased in aged mice: consequences for cutaneous wound healing and angiogenesis. Matrix Biology, 2004, 22, 539-547.	3.6	70
94	Matricellular proteins as modulators of wound healing and the foreign body response. Thrombosis and Haemostasis, 2003, 90, 986-992.	3.4	143
95	Megakaryocytes require thrombospondin-2 for normal platelet formation and function. Blood, 2003, 101, 3915-3923.	1.4	45
96	Increased and prolonged inflammation and angiogenesis in delayed-type hypersensitivity reactions elicited in the skin of thrombospondin-2â€“deficient mice. Blood, 2002, 99, 538-545.	1.4	73
97	The Lack of Thrombospondin-1 (TSP1) Dictates the Course of Wound Healing in Double-TSP1/TSP2-Null Mice. American Journal of Pathology, 2002, 161, 831-839.	3.8	272
98	pH-Sensitive polymers that enhance intracellular drug delivery in vivo. Journal of Controlled Release, 2002, 78, 295-303.	9.9	191
99	Design of ?Smart? polymers that can ï¿½direct intracellular drug delivery. Polymers for Advanced Technologies, 2002, 13, 992-999.	3.2	72
100	Altered Extracellular Matrix Remodeling and Angiogenesis in Sponge Granulomas of Thrombospondin 2-Null Mice. American Journal of Pathology, 2001, 159, 1255-1262.	3.8	105
101	Bioinspired polymers that control intracellular drug delivery. Biotechnology and Bioprocess Engineering, 2001, 6, 205-212.	2.6	15
102	Regulation of Angiogenesis and Matrix Remodeling by Localized, Matrix-Mediated Antisense Gene Delivery. Molecular Therapy, 2001, 3, 842-849.	8.2	59
103	Thrombospondin 2 Modulates Collagen Fibrillogenesis and Angiogenesis. Journal of Investigative Dermatology Symposium Proceedings, 2000, 5, 61-66.	0.8	88
104	Matricellular Proteins as Modulators of Cellâ€“Matrix Interactions: Adhesive Defect in Thrombospondin 2-null Fibroblasts is a Consequence of Increased Levels of Matrix Metalloproteinase-2. Molecular Biology of the Cell, 2000, 11, 3353-3364.	2.1	182
105	Thrombospondin 2, a matricellular protein with diverse functions. Matrix Biology, 2000, 19, 557-568.	3.6	156
106	Accelerated Wound Healing in Mice With a Disruption of the Thrombospondin 2 Gene. Journal of Investigative Dermatology, 1999, 113, 782-787.	0.7	148
107	Mice That Lack Thrombospondin 2 Display Connective Tissue Abnormalities That Are Associated with Disordered Collagen Fibrillogenesis, an Increased Vascular Density, and a Bleeding Diathesis. Journal of Cell Biology, 1998, 140, 419-430.	5.2	458
108	The Distribution of the Matricellular Protein Thrombospondin 2 in Tissues of Embryonic and Adult Mice. Journal of Histochemistry and Cytochemistry, 1998, 46, 1007-1015.	2.5	92

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109	Thrombospondin 1 is expressed by proliferating mesangial cells and is up-regulated by PDGF and bFGF in vivo. Kidney International, 1995, 48, 1846-1856.	5.2	76
110	Regulation and synthesis of selected bacteria-induced proteins in Manduca sexta. Insect Biochemistry and Molecular Biology, 1992, 22, 321-331.	2.7	7
111	Treating â€˜Septicâ€™ With Enhanced Antibiotics and â€˜Arthritisâ€™ by Mitigation of Excessive Inflammation. Frontiers in Cellular and Infection Microbiology, 0, 12, .	3.9	5