

Themis R Kyriakides

List of Publications by Year in descending order

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111
papers

8,308
citations

34105
52
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48315
88
g-index

111
all docs

111
docs citations

111
times ranked

10225
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Bulk metallic glasses for biomedical applications. Jom, 2009, 61, 21-29.	1.9	273
4	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
5	A critical role for macrophages in neovessel formation and the development of stenosis in tissue-engineered vascular grafts. FASEB Journal, 2011, 25, 4253-4263.	0.5	199
6	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
7	The role of thrombospondins 1 and 2 in the regulation of cell-matrix interactions, collagen fibril formation, and the response to injury. International Journal of Biochemistry and Cell Biology, 2004, 36, 1115-1125.	2.8	193
8	pH-Sensitive polymers that enhance intracellular drug delivery in vivo. Journal of Controlled Release, 2002, 78, 295-303.	9.9	191
9	Matricellular Proteins as Modulators of Cell-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
10	Extracellular matrix-derived biomaterials in engineering cell function. Biotechnology Advances, 2020, 42, 107421.	11.7	163
11	Small-diameter biodegradable scaffolds for functional vascular tissue engineering in the mouse model. Biomaterials, 2008, 29, 1454-1463.	11.4	160
12	Thrombospondin 2, a matricellular protein with diverse functions. Matrix Biology, 2000, 19, 557-568.	3.6	156
13	Accelerated Wound Healing in Mice With a Disruption of the Thrombospondin 2 Gene. Journal of Investigative Dermatology, 1999, 113, 782-787.	0.7	148
14	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
15	Redox Signaling in Diabetic Wound Healing Regulates Extracellular Matrix Deposition. Antioxidants and Redox Signaling, 2017, 27, 823-838.	5.4	144
16	Matricellular proteins as modulators of wound healing and the foreign body response. Thrombosis and Haemostasis, 2003, 90, 986-992.	3.4	143
17	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
18	Tissue-engineered vascular grafts form neovessels that arise from regeneration of the adjacent blood vessel. FASEB Journal, 2011, 25, 2731-2739.	0.5	136

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19	Linking the foreign body response and protein adsorption to PEG-based hydrogels using proteomics. <i>Biomaterials</i> , 2015, 41, 26-36.	11.4	129
20	Immunomodulation by mesenchymal stem cells combats the foreign body response to cell-laden synthetic hydrogels. <i>Biomaterials</i> , 2015, 41, 79-88.	11.4	122
21	Characterization of the <i>in vitro</i> macrophage response and <i>in vivo</i> host response to poly(ethylene glycol)-based hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 93A, 941-953.	4.0	120
22	Endothelial Akt1 mediates angiogenesis by phosphorylating multiple angiogenic substrates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 12865-12870.	7.1	120
23	The host response to naturally-derived extracellular matrix biomaterials. <i>Seminars in Immunology</i> , 2017, 29, 72-91.	5.6	111
24	Altered Extracellular Matrix Remodeling and Angiogenesis in Sponge Granulomas of Thrombospondin 2-Null Mice. <i>American Journal of Pathology</i> , 2001, 159, 1255-1262.	3.8	105
25	Thrombospondin-2 Modulates Extracellular Matrix Remodeling during Physiological Angiogenesis. <i>American Journal of Pathology</i> , 2008, 173, 879-891.	3.8	95
26	The Distribution of the Matricellular Protein Thrombospondin 2 in Tissues of Embryonic and Adult Mice. <i>Journal of Histochemistry and Cytochemistry</i> , 1998, 46, 1007-1015.	2.5	92
27	Essential Role of DAP12 Signaling in Macrophage Programming into a Fusion-Competent State. <i>Science Signaling</i> , 2008, 1, ra11.	3.6	92
28	Thrombospondin-2 and extracellular matrix assembly. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 2396-2402.	2.4	92
29	The role of thrombospondins in wound healing, ischemia, and the foreign body reaction. <i>Journal of Cell Communication and Signaling</i> , 2009, 3, 215-225.	3.4	91
30	Inflammasome components Asc and caspase-1 mediate biomaterial-induced inflammation and foreign body response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 20095-20100.	7.1	91
31	Engineering Cellular Response Using Nanopatterned Bulk Metallic Glass. <i>ACS Nano</i> , 2014, 8, 4366-4375.	14.6	91
32	An electrospun scaffold integrating nucleic acid delivery for treatment of full-thickness wounds. <i>Biomaterials</i> , 2013, 34, 3891-3901.	11.4	89
33	Thrombospondin 2 Modulates Collagen Fibrillogenesis and Angiogenesis. <i>Journal of Investigative Dermatology Symposium Proceedings</i> , 2000, 5, 61-66.	0.8	88
34	Foreign Body Giant Cell Formation Is Preceded by Lamellipodia Formation and Can Be Attenuated by Inhibition of Rac1 Activation. <i>American Journal of Pathology</i> , 2007, 171, 632-640.	3.8	88
35	Increased Marrow-Derived Osteoprogenitor Cells and Endosteal Bone Formation in Mice Lacking Thrombospondin 2. <i>Journal of Bone and Mineral Research</i> , 2010, 15, 851-862.	2.8	85
36	Dual delivery of VEGF and MCP-1 to support endothelial cell transplantation for therapeutic vascularization. <i>Biomaterials</i> , 2010, 31, 3054-3062.	11.4	85

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37	CXCR3-dependent accumulation and activation of perivascular macrophages is necessary for homeostatic arterial remodeling to hemodynamic stresses. <i>Journal of Experimental Medicine</i> , 2010, 207, 1951-1966.	8.5	84
38	Nanomaterials, Inflammation, and Tissue Engineering. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2015, 7, 355-370.	6.1	84
39	Endothelial Expression of $\alpha_2\beta_1$ Integrin Is Required for Embryonic Vascular Patterning and Postnatal Vascular Remodeling. <i>Molecular and Cellular Biology</i> , 2008, 28, 794-802.	2.3	83
40	Reticulon 4B (Nogo-B) is necessary for macrophage infiltration and tissue repair. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 17511-17516.	7.1	82
41	Angiopoietin-2 Secretion by Endothelial Cell Exosomes. <i>Journal of Biological Chemistry</i> , 2014, 289, 510-519.	3.4	79
42	Thrombospondin 1 is expressed by proliferating mesangial cells and is up-regulated by PDGF and bFGF in vivo. <i>Kidney International</i> , 1995, 48, 1846-1856.	5.2	76
43	Increased and prolonged inflammation and angiogenesis in delayed-type hypersensitivity reactions elicited in the skin of thrombospondin-2-deficient mice. <i>Blood</i> , 2002, 99, 538-545.	1.4	73
44	Design of "Smart" polymers that can directly intracellular drug delivery. <i>Polymers for Advanced Technologies</i> , 2002, 13, 992-999.	3.2	72
45	Thrombospondin 2 levels are increased in aged mice: consequences for cutaneous wound healing and angiogenesis. <i>Matrix Biology</i> , 2004, 22, 539-547.	3.6	70
46	Temporal progression of the host response to implanted poly(ethylene glycol)-based hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , 2011, 96A, 621-631.	4.0	70
47	Biodegradation of poly(anhydride-esters) into non-steroidal anti-inflammatory drugs and their effect on <i>Pseudomonas aeruginosa</i> biofilms in vitro and on the foreign-body response in vivo. <i>Biomaterials</i> , 2006, 27, 5039-5048.	11.4	67
48	Click-coated, heparinized, decellularized vascular grafts. <i>Acta Biomaterialia</i> , 2015, 13, 177-187.	8.3	65
49	LMO7 Is a Negative Feedback Regulator of Transforming Growth Factor β_2 Signaling and Fibrosis. <i>Circulation</i> , 2019, 139, 679-693.	1.6	63
50	Endothelial nitric oxide synthase controls the expression of the angiogenesis inhibitor thrombospondin 2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E1137-45.	7.1	62
51	Regulation of Angiogenesis and Matrix Remodeling by Localized, Matrix-Mediated Antisense Gene Delivery. <i>Molecular Therapy</i> , 2001, 3, 842-849.	8.2	59
52	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. <i>American Journal of Pathology</i> , 2005, 167, 81-88.	3.8	58
53	Nanopatterned bulk metallic glass-based biomaterials modulate macrophage polarization. <i>Acta Biomaterialia</i> , 2018, 75, 427-438.	8.3	57
54	Loss of monocyte chemoattractant protein-1 alters macrophage polarization and reduces NF κ B activation in the foreign body response. <i>Acta Biomaterialia</i> , 2015, 11, 37-47.	8.3	56

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55	Lack of TNF- α -Induced MMP-9 Production and Abnormal E-Cadherin Redistribution Associated with Compromised Fusion in MCP-1-Null Macrophages. <i>American Journal of Pathology</i> , 2011, 178, 2311-2321.	3.8	54
56	Biocompatibility of nanomaterials and their immunological properties. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 042005.	3.3	54
57	Matricellular proteins and biomaterials. <i>Matrix Biology</i> , 2014, 37, 183-191.	3.6	51
58	Biodegradation, biocompatibility, and drug delivery in poly(ϵ -pentadecalactone-co-p-dioxanone) copolyesters. <i>Biomaterials</i> , 2011, 32, 6646-6654.	11.4	49
59	The effect of inflammatory cell-derived MCP-1 loss on neuronal survival during chronic neuroinflammation. <i>Biomaterials</i> , 2014, 35, 6698-6706.	11.4	48
60	Improving in vivo outcomes of decellularized vascular grafts via incorporation of a novel extracellular matrix. <i>Biomaterials</i> , 2017, 141, 63-73.	11.4	48
61	Enhanced Angiogenesis and Reduced Contraction in Thrombospondin-2-null Wounds Is Associated With Increased Levels of Matrix Metalloproteinases-2 and -9, and Soluble VEGF. <i>Journal of Histochemistry and Cytochemistry</i> , 2009, 57, 301-313.	2.5	47
62	Macrophage β 2 Integrin-Mediated, HuR-Dependent Stabilization of Angiogenic Factor-Encoding mRNAs in Inflammatory Angiogenesis. <i>American Journal of Pathology</i> , 2012, 180, 1751-1760.	3.8	47
63	Megakaryocytes require thrombospondin-2 for normal platelet formation and function. <i>Blood</i> , 2003, 101, 3915-3923.	1.4	45
64	Matrix metalloproteinase-9 deficiency leads to prolonged foreign body response in the brain associated with increased IL-1 β levels and leakage of the blood-brain barrier. <i>Matrix Biology</i> , 2009, 28, 148-159.	3.6	43
65	Molecular Characterization of Macrophage-Biomaterial Interactions. <i>Advances in Experimental Medicine and Biology</i> , 2015, 865, 109-122.	1.6	42
66	Regulation of Mesenchymal Stem Cell Differentiation by Nanopatterning of Bulk Metallic Glass. <i>Scientific Reports</i> , 2018, 8, 8758.	3.3	41
67	Histologic changes of the fetal membranes after fetoscopic laser surgery for twin-twin transfusion syndrome. <i>Pediatric Research</i> , 2015, 78, 247-255.	2.3	40
68	Astrocyte-Derived Thrombospondin-2 Is Critical for the Repair of the Blood-Brain Barrier. <i>American Journal of Pathology</i> , 2011, 179, 860-868.	3.8	39
69	Matricellular proteins in drug delivery: Therapeutic targets, active agents, and therapeutic localization. <i>Advanced Drug Delivery Reviews</i> , 2016, 97, 56-68.	13.7	39
70	A peptide-morpholino oligomer conjugate targeting <i>Staphylococcus aureus</i> gyrA mRNA improves healing in an infected mouse cutaneous wound model. <i>International Journal of Pharmaceutics</i> , 2013, 453, 651-655.	5.2	37
71	The role of extracellular matrix in the pathophysiology of diabetic wounds. <i>Matrix Biology Plus</i> , 2020, 6-7, 100037.	3.5	36
72	Endothelial Cell Autonomous Role of Akt1. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 870-879.	2.4	34

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73	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. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 93A, 189-199.	4.0	33
74	Tunable Hydrogels Derived from Genetically Engineered Extracellular Matrix Accelerate Diabetic Wound Healing. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41892-41901.	8.0	33
75	Glycocalyx-Like Hydrogel Coatings for Small Diameter Vascular Grafts. <i>Advanced Functional Materials</i> , 2020, 30, 1908963.	14.9	33
76	Decellularized materials derived from TSP2-KO mice promote enhanced neovascularization and integration in diabetic wounds. <i>Biomaterials</i> , 2018, 169, 61-71.	11.4	31
77	Understanding the host response to cell-laden poly(ethylene glycol)-based hydrogels. <i>Biomaterials</i> , 2013, 34, 952-964.	11.4	30
78	Inadequate Processing of Decellularized Dermal Matrix Reduces Cell Viability <i>In Vitro</i> and Increases Apoptosis and Acute Inflammation <i>In Vivo</i> . <i>BioResearch Open Access</i> , 2016, 5, 177-187.	2.6	30
79	Regulation of cell-cell fusion by nanotopography. <i>Scientific Reports</i> , 2016, 6, 33277.	3.3	30
80	SPARC-thrombospondin-2-double-null Mice Exhibit Enhanced Cutaneous Wound Healing and Increased Fibrovascular Invasion of Subcutaneous Polyvinyl Alcohol Sponges. <i>Journal of Histochemistry and Cytochemistry</i> , 2005, 53, 571-581.	2.5	29
81	Nanopatterned Bulk Metallic Glass Biosensors. <i>ACS Sensors</i> , 2017, 2, 1779-1787.	7.8	26
82	HIF-1 α represses the expression of the angiogenesis inhibitor thrombospondin-2. <i>Matrix Biology</i> , 2018, 65, 45-58.	3.6	26
83	On-line observation of cell growth in a three-dimensional matrix on surface-modified microelectrode arrays. <i>Biomaterials</i> , 2009, 30, 3110-3117.	11.4	25
84	Impaired von Willebrand factor adhesion and platelet response in thrombospondin-2 knockout mice. <i>Blood</i> , 2016, 128, 1642-1650.	1.4	25
85	Nanoparticle delivery of miR-223 to attenuate macrophage fusion. <i>Biomaterials</i> , 2016, 89, 127-135.	11.4	25
86	Elevated Thrombospondin 2 Contributes to Delayed Wound Healing in Diabetes. <i>Diabetes</i> , 2019, 68, 2016-2023.	0.6	23
87	Angiogenesis and Vasculogenesis in Health and Disease. <i>BioMed Research International</i> , 2015, 2015, 1-2.	1.9	21
88	Dual therapeutic targeting of intra-articular inflammation and intracellular bacteria enhances chondroprotection in septic arthritis. <i>Science Advances</i> , 2021, 7, .	10.3	21
89	Foreign body response to synthetic polymer biomaterials and the role of adaptive immunity. <i>Biomedical Materials (Bristol)</i> , 2022, 17, 022007.	3.3	20
90	Nanoparticle-based evaluation of blood-brain barrier leakage during the foreign body response. <i>Journal of Neural Engineering</i> , 2013, 10, 016013.	3.5	19

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91	New Functional Tools for Antithrombogenic Activity Assessment of Live Surface Glycocalyx. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, 1847-1853.	2.4	18
92	Loss of endothelial glucocorticoid receptor promotes angiogenesis via upregulation of Wnt/ β -catenin pathway. <i>Angiogenesis</i> , 2021, 24, 631-645.	7.2	18
93	An in situ collagen- α HA hydrogel system promotes survival and preserves the proangiogenic secretion of hiPSC-derived vascular smooth muscle cells. <i>Biotechnology and Bioengineering</i> , 2020, 117, 3912-3923.	3.3	17
94	The role of myeloid cell-derived PDGF-B in neotissue formation in a tissue-engineered vascular graft. <i>Regenerative Medicine</i> , 2017, 12, 249-261.	1.7	16
95	Bioinspired polymers that control intracellular drug delivery. <i>Biotechnology and Bioprocess Engineering</i> , 2001, 6, 205-212.	2.6	15
96	Up-regulation of Thrombospondin-2 in Akt1-null Mice Contributes to Compromised Tissue Repair Due to Abnormalities in Fibroblast Function. <i>Journal of Biological Chemistry</i> , 2015, 290, 409-422.	3.4	14
97	Multicompartment Drug Release System for Dynamic Modulation of Tissue Responses. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700370.	7.6	14
98	Molecular Events at Tissue-Biomaterial Interface. , 2015, , 81-116.		13
99	Locally delivered adjuvant biofilm-penetrating antibiotics rescue impaired endochondral fracture healing caused by MRSA infection. <i>Journal of Orthopaedic Research</i> , 2021, 39, 402-414.	2.3	13
100	Hierarchical Micro- and Nanopatterning of Metallic Glass to Engineer Cellular Responses. <i>ACS Applied Bio Materials</i> , 2018, 1, 51-58.	4.6	12
101	Thrombospondin 2-null mice display an altered brain foreign body response to polyvinyl alcohol sponge implants. <i>Biomedical Materials (Bristol)</i> , 2009, 4, 015010.	3.3	9
102	Biocompatibility of platinum-based bulk metallic glass in orthopedic applications. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 045018.	3.3	8
103	Regulation and synthesis of selected bacteria-induced proteins in <i>Manduca sexta</i> . <i>Insect Biochemistry and Molecular Biology</i> , 1992, 22, 321-331.	2.7	7
104	The impact of modulating the blood-brain barrier on the electrophysiological and histological outcomes of intracortical electrodes. <i>Journal of Neural Engineering</i> , 2019, 16, 046005.	3.5	6
105	Treating \sim Septic \sim ™ With Enhanced Antibiotics and \sim Arthritis \sim ™ by Mitigation of Excessive Inflammation. <i>Frontiers in Cellular and Infection Microbiology</i> , 0, 12, .	3.9	5
106	Integrin β 3 targeting biomaterial preferentially promotes secretion of bFGF and viability of iPSC-derived vascular smooth muscle cells. <i>Biomaterials Science</i> , 2021, 9, 5319-5329.	5.4	4
107	Thrombospondin says no to NO. <i>Blood</i> , 2007, 109, 1793-1793.	1.4	3
108	Cell interactions with polymers. , 2020, , 275-293.		3

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109	Elevated Thrombospondin ² Contributes to Delayed Wound Healing in Diabetes. FASEB Journal, 2018, 32, 414.3.	0.5	1
110	Engineered molecular delivery for control and enhancement of transplanted endothelial cell fate in tissue engineering. , 2009, , .		0
111	Thrombospondin 2 deficiency influences extracellular matrix assembly leading to increased ischemia ² induced angiogenesis and arteriogenesis. FASEB Journal, 2007, 21, A529.	0.5	0