Yan Cai

List of Publications by Year
in descending order

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29	368	932766 10	839053 18
papers	citations	h-index	g-index

30	30	30	439
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A prediction tool for plaque progression based on patient-specific multi-physical modeling. PLoS Computational Biology, 2021, 17, e1008344.	1.5	6
2	Mathematical modeling of intraplaque neovascularization and hemorrhage in a carotid atherosclerotic plaque. BioMedical Engineering OnLine, 2021, 20, 42.	1.3	4
3	A ten N6â€methyladenosineâ€related long nonâ€coding RNAs signature predicts prognosis of tripleâ€negative breast cancer. Journal of Clinical Laboratory Analysis, 2021, 35, e23779.	0.9	22
4	Digital Subtraction Angiography Contrast Material Transport as a Direct Assessment for Blood Perfusion of Middle Cerebral Artery Stenosis. Frontiers in Physiology, 2021, 12, 716173.	1.3	2
5	Mathematical modeling of plaque progression and associated microenvironment: How far from predicting the fate of atherosclerosis?. Computer Methods and Programs in Biomedicine, 2021, 211, 106435.	2.6	3
6	Airway resistance variation correlates with prognosis of critically ill COVID-19 patients: A computational fluid dynamics study. Computer Methods and Programs in Biomedicine, 2021, 208, 106257.	2.6	11
7	Role of vascular smooth muscle cell phenotypic switching in plaque progression: A hybrid modeling study. Journal of Theoretical Biology, 2021, 526, 110794.	0.8	10
8	Optical coherence tomography for identification of malignant pulmonary nodules based on random forest machine learning algorithm. PLoS ONE, 2021, 16, e0260600.	1.1	5
9	Modeling osteoinduction in titanium bone scaffold with a representative channel structure. Materials Science and Engineering C, 2020, 117, 111347.	3.8	9
10	Mechanicalâ€“chemical coupled modeling of bone regeneration within a biodegradable polymer scaffold loaded with VEGF. Biomechanics and Modeling in Mechanobiology, 2020, 19, 2285-2306.	1.4	12
11	Carotid Geometry as a Predictor of In-Stent Neointimal Hyperplasiaã€€â€• A Computational Fluid Dynamics Study â€•. Circulation Journal, 2019, 83, 1472-1479.	0.7	8
12	Magnet-activatable nanoliposomes as intracellular bubble microreactors to enhance drug delivery efficacy and burst cancer cells. Nanoscale, 2019, 11, 18854-18865.	2.8	24
13	Coupled Modeling of Lipid Deposition, Inflammatory Response and Intraplaque Angiogenesis in Atherosclerotic Plaque. Annals of Biomedical Engineering, 2019, 47, 439-452.	1.3	19
14	Mathematical modeling of atherosclerotic plaque destabilization: Role of neovascularization and intraplaque hemorrhage. Journal of Theoretical Biology, 2018, 450, 53-65.	0.8	29
15	Molecular mechanism of activated T cells in breast cancer. OncoTargets and Therapy, 2018, Volume 11, 5015-5024.	1.0	11
16	Oxymatrine Promotes S-Phase Arrest and Inhibits Cell Proliferation of Human Breast Cancer Cells <i>in Vitro</i> through Mitochondria-Mediated Apoptosis. Biological and Pharmaceutical Bulletin, 2017, 40, 1232-1239.	0.6	27
17	Multi-scale mathematical modelling of tumour growth and microenvironments in anti-angiogenic therapy. BioMedical Engineering OnLine, 2016, 15, 155.	1.3	13
18	Mathematical Modelling of a Brain Tumour Initiation and Early Development: A Coupled Model of Glioblastoma Growth, Pre-Existing Vessel Co-Option, Angiogenesis and Blood Perfusion. PLoS ONE, 2016, 11, e0150296.	1.1	31

#	Article	IF	Citations
19	Oxygen Transport in a Three-Dimensional Microvascular Network Incorporated with Early Tumour Growth and Preexisting Vessel Cooption: Numerical Simulation Study. BioMed Research International, 2015, 2015, 1-10.	0.9	7
20	3D numerical study of tumor blood perfusion and oxygen transport during vascular normalization. Applied Mathematics and Mechanics (English Edition), 2015, 36, 153-162.	1.9	1
21	3D numerical simulation of avascular tumour growth: effect of hypoxic micro-environment in host tissue. Applied Mathematics and Mechanics (English Edition), 2013, 34, 1055-1068.	1.9	4
22	Numerical simulation of avascular tumor growth based on p27 gene regulation. Applied Mathematics and Mechanics (English Edition), 2013, 34, 327-338.	1.9	3
23	A Hybrid Cellular Automata Model of Multicellular Tumour Spheroid Growth in Hypoxic Microenvironment. Journal of Applied Mathematics, 2013, 2013, 1-10.	0.4	3
24	Simulation of tumor microvasculature and microenvironment response to anti-angiogenic treatment by angiostatin and endostatin. Applied Mathematics and Mechanics (English Edition), 2011, 32, 437-448.	1.9	8
25	Numerical simulation of inhibiting effects on solid tumour cells in anti-angiogenic therapy: application of coupled mathematical model of angiogenesis with tumour growth. Applied Mathematics and Mechanics (English Edition), 2011, 32, 1287-1296.	1.9	7
26	Coupled modelling of tumour angiogenesis, tumour growth and blood perfusion. Journal of Theoretical Biology, 2011, 279, 90-101.	0.8	76
27	Numerical Simulation of Solid Tumor Blood Perfusion and Drug Delivery during the â€œVascular Normalization Windowâ€•with Antiangiogenic Therapy. Journal of Applied Mathematics, 2011, 2011, 1-8.	0.4	1
28	Numerical simulation of tumor-induced angiogenesis influenced by the extra-cellular matrix mechanical environment. Acta Mechanica Sinica/Lixue Xuebao, 2009, 25, 889-895.	1.5	8
29	Numerical simulation of solid tumor angiogenesis with Endostatin treatment: a combined analysis of inhibiting effect of anti-angiogenic factor and micro mechanical environment of extracellular matrix. Applied Mathematics and Mechanics (English Edition), 2009, 30, 1247-1254.	1.9	4