Wei Yao

List of Publications by Year
in descending order

37 papers	641 citations	687363 13 h-index	610901 24 g-index
37 all docs	37 docs citations	37 times ranked	560 citing authors

#	Article	IF	Citations
1	Role of Mast Cells in Acupuncture Effect: A Pilot Study. Explore: the Journal of Science and Healing, 2008, 4, 170-177.	1.0	110
2	Interstitial Fluid Flow: The Mechanical Environment of Cells and Foundation of Meridians. Evidence-based Complementary and Alternative Medicine, 2012, 2012, 1-9.	1.2	63
3	Critical roles of TRPV2 channels, histamine H1 and adenosine A1 receptors in the initiation of acupoint signals for acupuncture analgesia. Scientific Reports, 2018, 8, 6523.	3.3	62
4	Role of Collagen Fibers in Acupuncture Analgesia Therapy on Rats. Connective Tissue Research, 2009, 50, 110-120.	2.3	55
5	Mast Cell-Nerve Cell Interaction at Acupoint: Modeling Mechanotransduction Pathway Induced by Acupuncture. International Journal of Biological Sciences, 2014, 10, 511-519.	6.4	44
6	A Continuum Neuronal Model for the Instigation and Propagation of Cortical Spreading Depression. Bulletin of Mathematical Biology, 2011, 73, 2773-2790.	1.9	39
7	Experimental exploration and research prospect of physical bases and functional characteristics of meridians. Science Bulletin, 1998, 43, 1233-1252.	1.7	31
8	Mechanisms of Qi-blood circulation and Qi deficiency syndrome in view of blood and interstitial fluid circulation. Journal of Traditional Chinese Medicine = Chung I Tsa Chih Ying Wen Pan / Sponsored By All-China Association of Traditional Chinese Medicine, Academy of Traditional Chinese Medicine, 2013, 33, 538-544.	0.4	28
9	An investigation of the distribution and location of mast cells affected by the stiffness of substrates as a mechanical niche. International Journal of Biological Sciences, 2018, 14, 1142-1152.	6.4	27
10	Interstitial fluid flow: simulation of mechanical environment of cells in the interosseous membrane. Acta Mechanica Sinica/Lixue Xuebao, 2011, 27, 602-610.	3.4	18
11	Mast Cells and Nerve Signal Conduction in Acupuncture. Evidence-based Complementary and Alternative Medicine, 2018, 2018, 1-9.	1.2	17
12	Spectral characteristic of infrared radiations of some acupoint and non-acupoint areas in human arm surface. Science Bulletin, 2001, 46, 678-682.	1.7	15
13	Simulation of Interstitial Fluid Flow in Ligaments: Comparison among Stokes, Brinkman and Darcy Models. International Journal of Biological Sciences, 2013, 9, 1050-1056.	6.4	15
14	Mast Cells and Acupuncture Analgesia. Cells, 2022, 11, 860.	4.1	11
15	Dynamic model of tuberculosis considering multi-drug resistance and their applications. Infectious Disease Modelling, 2018, 3, 362-372.	1.9	10
16	A Fluid Mechanics Model of Tissue Fluid Flow in Limb Connective Tissueâ€"A Mechanism of Acupuncture Signal Transmission. Journal of Hydrodynamics, 2009, 21, 675-684.	3.2	9
17	Analytic solutions of the interstitial fluid flow models. Journal of Hydrodynamics, 2013, 25, 683-694.	3.2	9
18	A dynamic model of calcium signaling in mast cells and LTC4 release induced by mechanical stimuli. Science Bulletin, 2014, 59, 956-963.	1.7	8

#	Article	IF	Citations
19	Dynamics of Calcium Signal and Leukotriene C₄Release in Mast Cells Network Induced by Mechanical Stimuli and Modulated by Interstitial Fluid Flow. Advances in Applied Mathematics and Mechanics, 2016, 8, 67-81.	1.2	8
20	A Simplified Neuronal Model for the Instigation and Propagation of Cortical Spreading Depression. Advances in Applied Mathematics and Mechanics, 2011, 3, 759-773.	1.2	7
21	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.	3.6	7
22	A Linear Dynamic Model Describing Lymph Circulation. Journal of Hydrodynamics, 2009, 21, 118-123.	3.2	6
23	A hybrid method to study the mechanical information induced by needle rotating. Mathematical Methods in the Applied Sciences, 2018, 41, 5939-5950.	2.3	6
24	Mechanical effects of acupuncture. Mathematical Methods in the Applied Sciences, 2020, 43, 1555-1564.	2.3	5
25	A mathematical model of histamine-mediated neural activation during acupuncture. Biomechanics and Modeling in Mechanobiology, 2017, 16, 1659-1668.	2.8	4
26	Mast Cell Degranulation and Adenosine Release:Acupoint Specificity for Effect of Electroacupuncture on Pituitrin-Induced Acute Heart Bradycardia in Rabbits. Evidence-based Complementary and Alternative Medicine, 2020, 2020, 1-15.	1.2	4
27	Effects of substrate stiffness on mast cell migration. European Journal of Cell Biology, 2021, 100, 151178.	3.6	4
28	Numerical simulation of avascular tumor growth based on p27 gene regulation. Applied Mathematics and Mechanics (English Edition), 2013, 34, 327-338.	3.6	3
29	A Mathematical Model for the Instigation and Transmission of Biological and Neural Signals in Response to Acupuncture. Communications in Computational Physics, 2015, 18, 868-880.	1.7	3
30	A scaleâ€free network model for HIV transmission among men who have sex with men in China. Mathematical Methods in the Applied Sciences, 2016, 39, 5131-5139.	2.3	3
31	A network-based study on HIV spreading among men who have sex with men. Chinese Science Bulletin, 2013, 58, 1731-1738.	0.7	3
32	Hybrid discrete-continuum model of tumor growth considering capillary points. Applied Mathematics and Mechanics (English Edition), 2013, 34, 1237-1246.	3.6	2
33	A Mathematical Model to Study the Mechanical Information Induced by Lifting-Thrusting Needle. Evidence-based Complementary and Alternative Medicine, 2019, 2019, 1-13.	1.2	2
34	Simulation of oxygen supply in the tissue and its relationship with Lung Qi-Deficiency. , 2010, , .		1
35	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.	0.9	1
36	A MATHEMATICAL METHOD TO SOLVE THE INVERSE PROBLEM OF A HEMODYNAMICS MODEL. , 2003, , .		1

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37	A hybrid model for HIV transmission among men who have sex with men. Infectious Disease Modelling, 2020, 5, 814-826.	1.9	0