

Zhigang Wang

List of Publications by Year in descending order

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36
papers

622
citations

687363

13
h-index

580821

25
g-index

38
all docs

38
docs citations

38
times ranked

1229
citing authors

#	ARTICLE	IF	CITATIONS
1	Nano-topography: Quicksand for cell cycle progression?. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 2656-2665.	3.3	4
2	Predicting burst pressure of radiofrequency-induced colorectal anastomosis by bio-impedance measurement. <i>Physiological Measurement</i> , 2017, 38, 489-500.	2.1	8
3	Patient-Specific Deep Architectural Model for ECG Classification. <i>Journal of Healthcare Engineering</i> , 2017, 2017, 1-13.	1.9	71
4	Bi-component conformal electrode for radiofrequency sequential ablation and circumferential separation of large tumours in solid organs: development and in-vitro evaluation. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 64, 1-1.	4.2	23
5	Liver retraction system by C3-muco-adhesive polymer films for laparoscopic surgery. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2016, 30, 2834-2839.	2.4	1
6	Tumour Cell Membrane Poration and Ablation by Pulsed Low-Intensity Electric Field with Carbon Nanotubes. <i>International Journal of Molecular Sciences</i> , 2015, 16, 6890-6901.	4.1	18
7	Evaluation of <I>In-Situ</I> Magnetic Signals from Iron Oxide Nanoparticle-Labeled PC12 Cells by Atomic Force Microscopy. <i>Journal of Biomedical Nanotechnology</i> , 2015, 11, 457-468.	1.1	1
8	Novel concave"convex electrode for colonic anastomoses by radiofrequency thermo-fusion. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2015, 29, 1809-1816.	2.4	13
9	Information"enhanced sparse binary matrix in compressed sensing for ECG. <i>Electronics Letters</i> , 2014, 50, 1271-1273.	1.0	13
10	Mucoadhesive polymer films for tissue retraction in laparoscopic surgery: Ex-vivo study on their mechanical properties. <i>Bio-Medical Materials and Engineering</i> , 2014, 24, 445-451.	0.6	3
11	Impact of fenestrations and surface profiling on the holding of tissue by parallel occlusion laparoscopic graspers. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2014, 28, 1277-1283.	2.4	11
12	Intraluminal magnetisation of bowel by ferromagnetic particles for retraction and manipulation by magnetic probes. <i>Medical Engineering and Physics</i> , 2014, 36, 1521-1525.	1.7	4
13	Electrical conductivity measurement in Thiel"embalmed tissue model: relevance to radiofrequency ablation. <i>Electronics Letters</i> , 2014, 50, 1125-1127.	1.0	6
14	Sheets of Vertically Aligned BaTiO3 Nanotubes Reduce Cell Proliferation but Not Viability of NIH-3T3 Cells. <i>PLoS ONE</i> , 2014, 9, e115183.	2.5	1
15	Magnetic Retraction of Bowel by Intraluminal Injectable Cyanoacrylate-Based Magnetic Glue. <i>BioMed Research International</i> , 2013, 2013, 1-8.	1.9	5
16	Tumour Cell Labelling by Magnetic Nanoparticles with Determination of Intracellular Iron Content and Spatial Distribution of the Intracellular Iron. <i>International Journal of Molecular Sciences</i> , 2013, 14, 9111-9125.	4.1	44
17	Finite Element Study of Carbon Nanotube Induced Cell Membrane Poration for Drug and Gene Delivery. <i>Journal of Medical Imaging and Health Informatics</i> , 2012, 2, 132-138.	0.3	4
18	The importance of physics to progress in medical treatment. <i>Lancet, The</i> , 2012, 379, 1534-1543.	13.7	11

#	ARTICLE	IF	CITATIONS
19	Hybrid gold-iron oxide nanoparticles as a multifunctional platform for biomedical application. Journal of Nanobiotechnology, 2012, 10, 27.	9.1	101
20	Magnetoporation and Magnetolysis of Cancer Cells via Carbon Nanotubes Induced by Rotating Magnetic Fields. Nano Letters, 2012, 12, 5117-5121.	9.1	64
21	Different cellular response mechanisms contribute to the length-dependent cytotoxicity of multi-walled carbon nanotubes. Nanoscale Research Letters, 2012, 7, 361.	5.7	54
22	Image-based 3D modeling and validation of radiofrequency interstitial tumor ablation using a tissue-mimicking breast phantom. International Journal of Computer Assisted Radiology and Surgery, 2012, 7, 941-948.	2.8	39
23	A Micropower Miniature Piezoelectric Actuator for Implantable Middle Ear Hearing Device. IEEE Transactions on Biomedical Engineering, 2011, 58, 452-458.	4.2	9
24	A MEMS-based electronic capsule for time controlled drug delivery in the alimentary canal. Sensors and Actuators A: Physical, 2011, 169, 211-216.	4.1	13
25	Intra-luminal injection of ferro-fluid for magnetic bowel retraction in minimal access surgery. , 2010, , .		1
26	FEM analysis of carbon nanotube induced cell poration under electric field. , 2010, , .		1
27	Rapid and efficient cell labeling with a MRI contrast agent by electroporation in the presence of protamine sulfate. Nanomedicine, 2009, 4, 305-315.	3.3	12
28	Ferromagnetization of Target Tissues by Interstitial Injection of Ferrofluid: Formulation and Evidence of Efficacy for Magnetic Retraction. IEEE Transactions on Biomedical Engineering, 2009, 56, 2244-2252.	4.2	7
29	Development of A Shape Memory Alloy Actuator for Transanal Endoscopic Microsurgery. , 2005, 2005, 4341-4.		1
30	Preliminary Assessment of Remote Photoelectric Excitation of an Actuator for a Hearing Implant. , 2005, 2005, 6233-4.		1
31	Issues Concerning the Measurement of Transformation Temperatures in NiTi Alloys. , 2002, , .		1
32	Studying cardiac contractility change trend to evaluate cardiac reserve. IEEE Engineering in Medicine and Biology Magazine, 2002, 21, 74-76.	0.8	16
33	Assessment of multi-layer piezoelectric actuator technology for middle-ear implants. Mechatronics, 2002, 12, 3-17.	3.3	29
34	Effects of draining cochlear fluids on stapes displacement in human middle-ear models. Journal of the Acoustical Society of America, 2001, 110, 3132-3139.	1.1	11
35	Audio-frequency characteristics of multilayer piezoelectric crystal actuator for use in hearing implants. Electronics Letters, 2000, 36, 494.	1.0	4
36	Algorithms development for systolic time intervals and clinical assessment of cardiac function. , 0, , .		1