Zhigang Wang

List of Publications by Year
in descending order

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36	622	687363 13	580821 25
papers	citations	h-index	g-index

38	38	38	1229
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hybrid gold-iron oxide nanoparticles as a multifunctional platform for biomedical application. Journal of Nanobiotechnology, 2012, 10, 27.	9.1	101
2	Patient-Specific Deep Architectural Model for ECG Classification. Journal of Healthcare Engineering, 2017, 2017, 1-13.	1.9	71
3	Magnetoporation and Magnetolysis of Cancer Cells via Carbon Nanotubes Induced by Rotating Magnetic Fields. Nano Letters, 2012, 12, 5117-5121.	9.1	64
4	Different cellular response mechanisms contribute to the length-dependent cytotoxicity of multi-walled carbon nanotubes. Nanoscale Research Letters, 2012, 7, 361.	5.7	54
5	Tumour Cell Labelling by Magnetic Nanoparticles with Determination of Intracellular Iron Content and Spatial Distribution of the Intracellular Iron. International Journal of Molecular Sciences, 2013, 14, 9111-9125.	4.1	44
6	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
7	Assessment of multi-layer piezoelectric actuator technology for middle-ear implants. Mechatronics, 2002, 12, 3-17.	3.3	29
8	Bi-component conformal electrode for radiofrequency sequential ablation and circumferential separation of large tumours in solid organs: development and in-vitro evaluation. IEEE Transactions on Biomedical Engineering, 2016, 64, 1-1.	4.2	23
9	Tumour Cell Membrane Poration and Ablation by Pulsed Low-Intensity Electric Field with Carbon Nanotubes. International Journal of Molecular Sciences, 2015, 16, 6890-6901.	4.1	18
10	Studying cardiac contractility change trend to evaluate cardiac reserve. IEEE Engineering in Medicine and Biology Magazine, 2002, 21, 74-76.	0.8	16
11	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
12	Informationâ€enhanced sparse binary matrix in compressed sensing for ECG. Electronics Letters, 2014, 50, 1271-1273.	1.0	13
13	Novel concaveâ€“convex electrode for colonic anastomoses by radiofrequency thermo-fusion. Surgical Endoscopy and Other Interventional Techniques, 2015, 29, 1809-1816.	2.4	13
14	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
15	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
16	The importance of physics to progress in medical treatment. Lancet, The, 2012, 379, 1534-1543.	13.7	11
17	Impact of fenestrations and surface profiling on the holding of tissue by parallel occlusion laparoscopic graspers. Surgical Endoscopy and Other Interventional Techniques, 2014, 28, 1277-1283.	2.4	11
18	A Micropower Miniature Piezoelectric Actuator for Implantable Middle Ear Hearing Device. IEEE Transactions on Biomedical Engineering, 2011, 58, 452-458.	4.2	9

#	Article	IF	Citations
19	Predicting burst pressure of radiofrequency-induced colorectal anastomosis by bio-impedance measurement. Physiological Measurement, 2017, 38, 489-500.	2.1	8
20	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
21	Electrical conductivity measurement in Thielâ€embalmed tissue model: relevance to radiofrequency ablation. Electronics Letters, 2014, 50, 1125-1127.	1.0	6
22	Magnetic Retraction of Bowel by Intraluminal Injectable Cyanoacrylate-Based Magnetic Glue. BioMed Research International, 2013, 2013, 1-8.	1.9	5
23	Audio-frequency characteristics of multilayer piezoelectric crystal actuator for use in hearing implants. Electronics Letters, 2000, 36, 494.	1.0	4
24	Finite Element Study of Carbon Nanotube Induced Cell Membrane Poration for Drug and Gene Delivery. Journal of Medical Imaging and Health Informatics, 2012, 2, 132-138.	0.3	4
25	Intraluminal magnetisation of bowel by ferromagnetic particles for retraction and manipulation by magnetic probes. Medical Engineering and Physics, 2014, 36, 1521-1525.	1.7	4
26	Nano-topography: Quicksand for cell cycle progression?. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 2656-2665.	3.3	4
27	Mucoadhesive polymer films for tissue retraction in laparoscopic surgery: Ex-vivo study on their mechanical properties. Bio-Medical Materials and Engineering, 2014, 24, 445-451.	0.6	3
28	Algorithms development for systolic time intervals and clinical assessment of cardiac function. , 0, , .		1
29	Issues Concerning the Measurement of Transformation Temperatures in NiTi Alloys. , 2002, , .		1
30	Development of A Shape Memory Alloy Actuator for Transanal Endoscopic Microsurgery. , 2005, 2005, 4341-4.		1
31	Preliminary Assessment of Remote Photoelectric Excitation of an Actuator for a Hearing Implant. , 2005, 2005, 6233-4.		1
32	Intra-luminal injection of ferro-fluid for magnetic bowel retraction in minimal access surgery. , 2010, , .		1
33	FEM analysis of carbon nanotube induced cell poration under electric field. , 2010, , .		1
34	Evaluation of <I>In-Situ</I> Magnetic Signals from Iron Oxide Nanoparticle-Labeled PC12 Cells by Atomic Force Microscopy. Journal of Biomedical Nanotechnology, 2015, 11, 457-468.	1.1	1
35	Liver retraction system by C3-muco-adhesive polymer films for laparoscopic surgery. Surgical Endoscopy and Other Interventional Techniques, 2016, 30, 2834-2839.	2.4	1
36	Sheets of Vertically Aligned BaTiO3 Nanotubes Reduce Cell Proliferation but Not Viability of NIH-3T3 Cells. PLoS ONE, 2014, 9, e115183.	2.5	1