

Walter Hong-Shong Chang

List of Publications by Year in descending order

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59
papers

3,449
citations

318942

23
h-index

223390

49
g-index

61
all docs

61
docs citations

61
times ranked

5923
citing authors

#	ARTICLE	IF	CITATIONS
1	From mono-PEGylation towards anti-nonspecific protein interaction: comparison of dihydrolipoic acid <i>versus</i> glutathione-capped fluorescent gold nanoclusters using gel electrophoresis. <i>Nanoscale</i> , 2020, 12, 17786-17794.	2.8	1
2	Two new, near-infrared, fluorescent probes as potential tools for imaging bone repair. <i>Scientific Reports</i> , 2020, 10, 2580.	1.6	6
3	Non-Toxic Gold Nanoclusters for Solution-Processed White Light-Emitting Diodes. <i>Scientific Reports</i> , 2018, 8, 8860.	1.6	25
4	Template-based formation of ultrasound microbubble contrast agents. <i>RSC Advances</i> , 2016, 6, 69185-69190.	1.7	2
5	Detection of RBC agglutination in blood typing test using integrated Light-Eye-Technology (iLeyeT). , 2014, , .		0
6	Synthesis and optical properties of shaped gold nanomaterials under dark-field microscope. , 2014, , .		0
7	Synthesis of Gadolinium-doped Fluorescent Au/Ag Nanoclusters as Bimodal MRI Contrast Agents. <i>IFMBE Proceedings</i> , 2014, , 849-851.	0.2	0
8	Impact of dihydrolipoic acid on mouse embryonic stem cells and related regulatory mechanisms. <i>Environmental Toxicology</i> , 2013, 28, 87-97.	2.1	8
9	Dihydrolipoic Acid Induces Cytotoxicity in Mouse Blastocysts through Apoptosis Processes. <i>International Journal of Molecular Sciences</i> , 2012, 13, 3988-4002.	1.8	8
10	Application of Gold in Biomedicine: Past, Present and Future. <i>International Journal of Gerontology</i> , 2012, 6, 1-4.	0.7	19
11	Rapid Transformation of Protein-Caged Nanomaterials into Microbubbles As Bimodal Imaging Agents. <i>ACS Nano</i> , 2012, 6, 5111-5121.	7.3	23
12	Osteogenic differentiation is synergistically influenced by osteoinductive treatment and direct cell-cell contact between murine osteoblasts and mesenchymal stem cells. <i>International Orthopaedics</i> , 2012, 36, 199-205.	0.9	25
13	Fluorescent Gold Nanoclusters as a Biocompatible Marker for <i>In Vitro</i> and <i>In Vivo</i> Tracking of Endothelial Cells. <i>ACS Nano</i> , 2011, 5, 4337-4344.	7.3	159
14	Effects of Ultrasound on Osteotomy Healing in a Rabbit Fracture Model. <i>Ultrasound in Medicine and Biology</i> , 2011, 37, 1635-1643.	0.7	14
15	Topical photosan-mediated photodynamic therapy for DMBA-induced hamster buccal pouch early cancer lesions: an in vivo study. , 2011, , .		0
16	Effects of Low-Intensity Pulsed Ultrasound, Dexamethasone/TGF- β 1 and/or BMP-2 on the Transcriptional Expression of Genes in Human Mesenchymal Stem Cells: Chondrogenic vs. Osteogenic Differentiation. <i>Ultrasound in Medicine and Biology</i> , 2010, 36, 1022-1033.	0.7	60
17	Effects of functional electrical stimulation cycling exercise on bone mineral density loss in the early stages of spinal cord injury. <i>Journal of Rehabilitation Medicine</i> , 2010, 42, 150-154.	0.8	45
18	Synthesis and surface modification of highly fluorescent gold nanoclusters and their exploitation for cellular labeling. , 2010, , .		2

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19	Tracking of Cellular Uptake of Hydrophilic CdSe/ZnS Quantum Dots/Hydroxyapatite Composites Nanoparticles in MC3T3-E1 Osteoblast Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 2758-2762.	0.9	22
20	Ambulation study of a woman with paraplegia using a reciprocating gait orthosis with functional electrical stimulation in Taiwan: A case report. <i>Disability and Rehabilitation: Assistive Technology</i> , 2009, 4, 429-438.	1.3	3
21	Modulation of osteogenesis in human mesenchymal stem cells by specific pulsed electromagnetic field stimulation. <i>Journal of Orthopaedic Research</i> , 2009, 27, 1169-1174.	1.2	197
22	Synthesis, Characterization, and Bioconjugation of Fluorescent Gold Nanoclusters toward Biological Labeling Applications. <i>ACS Nano</i> , 2009, 3, 395-401.	7.3	700
23	Effects of nano calcium carbonate and nano calcium citrate on toxicity in ICR mice and on bone mineral density in an ovariectomized mice model. <i>Nanotechnology</i> , 2009, 20, 375102.	1.3	77
24	Advantages of Nanotechnology- Based Chinese Herb Drugs on Biological Activities. <i>Current Drug Metabolism</i> , 2009, 10, 905-913.	0.7	24
25	Relationships between physiological responses and presyncope symptoms during tilting up in patients with spinal cord injury. <i>Medical and Biological Engineering and Computing</i> , 2008, 46, 681-688.	1.6	3
26	Design of an Amphiphilic Polymer for Nanoparticle Coating and Functionalization. <i>Small</i> , 2008, 4, 334-341.	5.2	429
27	Studies of Photokilling of Bacteria Using Titanium Dioxide Nanoparticles. <i>Artificial Organs</i> , 2008, 32, 167-174.	1.0	201
28	Effects of different PCR temperatures on primer conjugated quantum dots. , 2008, , .		0
29	Cytokine Release from Osteoblasts in Response to Different Intensities of Pulsed Electromagnetic Field Stimulation. <i>Electromagnetic Biology and Medicine</i> , 2007, 26, 153-165.	0.7	30
30	Nonintrusive methodology for wellness baseline profiling. , 2007, 6576, 239.		0
31	Bioanalytics and biolabeling with semiconductor nanoparticles (quantum dots). <i>Journal of Materials Chemistry</i> , 2007, 17, 1343-1346.	6.7	108
32	Study of Fluorescence Enhancement of Colloidal CdSe/ZnS Quantum Dots Bound to Hexadecylamine by Single-Molecule Measurements. <i>Journal of Physical Chemistry C</i> , 2007, 111, 15166-15172.	1.5	21
33	Pulsed electromagnetic fields affect osteoblast proliferation and differentiation in bone tissue engineering. <i>Bioelectromagnetics</i> , 2007, 28, 519-528.	0.9	100
34	Development of a biofeedback tilt-table for investigating orthostatic syncope in patients with spinal cord injury. <i>Medical and Biological Engineering and Computing</i> , 2007, 45, 1223-1228.	1.6	3
35	Pulsed Electromagnetic Fields Accelerate Apoptotic Rate in Osteoclasts. <i>Connective Tissue Research</i> , 2006, 47, 222-228.	1.1	46
36	Dosage effects of curcumin on cell death types in a human osteoblast cell line. <i>Food and Chemical Toxicology</i> , 2006, 44, 1362-1371.	1.8	92

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37	Colloidal CdSe/ZnS core-shell nanoparticles: Dependence of physical properties on initial Cd to Se concentration. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006, 33, 388-393.	1.3	11
38	Comparison of ultrasound and electromagnetic field effects on osteoblast growth. <i>Ultrasound in Medicine and Biology</i> , 2006, 32, 769-775.	0.7	59
39	Highly luminescent CdSe nanoparticles embedded in silica thin films. <i>Journal of Electroceramics</i> , 2006, 17, 21-29.	0.8	7
40	QUANTUM DOT APPLICATIONS IN BIOTECHNOLOGY: PROGRESS AND CHALLENGES. <i>Annual Review of Nano Research</i> , 2006, , 467-530.	0.2	4
41	The influence on gene-expression profiling of osteoblasts behavior following treatment with the ionic products of sintered β -dicalcium pyrophosphate dissolution. <i>Biomaterials</i> , 2004, 25, 607-616.	5.7	34
42	Pulsed electromagnetic field stimulation of bone marrow cells derived from ovariectomized rats affects osteoclast formation and local factor production. <i>Bioelectromagnetics</i> , 2004, 25, 134-141.	0.9	53
43	Effect of pulse-burst electromagnetic field stimulation on osteoblast cell activities. <i>Bioelectromagnetics</i> , 2004, 25, 457-465.	0.9	133
44	Pulsed electromagnetic fields prevent osteoporosis in an ovariectomized female rat model: A prostaglandin E2-associated process. <i>Bioelectromagnetics</i> , 2003, 24, 189-198.	0.9	104
45	Effects of different intensities of extremely low frequency pulsed electromagnetic fields on formation of osteoclast-like cells. <i>Bioelectromagnetics</i> , 2003, 24, 431-439.	0.9	63
46	The effect of Gu-Sui-Bu (<i>Drynaria fortunei</i> J. Sm) immobilized modified calcium hydrogenphosphate on bone cell activities. <i>Biomaterials</i> , 2003, 24, 873-882.	5.7	17
47	Study of thermal effects of ultrasound stimulation on fracture healing. <i>Bioelectromagnetics</i> , 2002, 23, 256-263.	0.9	64
48	Optimum intensities of ultrasound for pge 2 secretion and growth of osteoblasts. <i>Ultrasound in Medicine and Biology</i> , 2002, 28, 683-690.	0.7	48
49	In vitro effects of low-intensity ultrasound stimulation on the bone cells. <i>Journal of Biomedical Materials Research Part B</i> , 2001, 57, 449-456.	3.0	95
50	Effect of anti-inflammatory medication on monocyte response to titanium particles. <i>Journal of Biomedical Materials Research Part B</i> , 2000, 52, 509-516.	3.0	11
51	Cytokine and Prostaglandin E2 Release from Leukocytes in Response to Metal Ions Derived from Different Prosthetic Materials: An In Vitro Study. <i>Artificial Organs</i> , 1999, 23, 1099-1106.	1.0	20
52	The influence of hydroxyapatite particles on osteoclast cell activities. , 1999, 45, 311-321.		64
53	Bone defect healing enhanced by ultrasound stimulation: An in vitro tissue culture model. , 1999, 46, 253-261.		32
54	Influence of hydroxyapatite particle size on bone cell activities: An in vitro study. , 1998, 39, 390-397.		81

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55	Effect of hydroxyapatite particle size on myoblasts and fibroblasts. <i>Biomaterials</i> , 1997, 18, 683-690.	5.7	66
56	CLINICAL TRIAL OF A CERVICAL TRACTION MODALITY WITH ELECTROMYOGRAPHIC BIOFEEDBACK1. <i>American Journal of Physical Medicine and Rehabilitation</i> , 1997, 76, 19-25.	0.7	21
57	Hilbert transform and Fourier descriptors to ECG signal analysis. , 1992, , .		1
58	A real-time feature extraction method for PVC detection in bedside monitor. <i>Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an</i> , 1987, 10, 511-516.	0.6	4
59	Evaluate total hip prosthesis loosening and fixation with acoustic vibration technique. , 0, , .		0