Walter Hong-Shong Chang

List of Publications by Year
in descending order

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59 papers	3,449 citations	236925 25 h-index	182427 51 g-index
61 all docs	61 docs citations	61 times ranked	5269 citing authors

#	Article	IF	Citations
1	Synthesis, Characterization, and Bioconjugation of Fluorescent Gold Nanoclusters toward Biological Labeling Applications. ACS Nano, 2009, 3, 395-401.	14.6	700
2	Design of an Amphiphilic Polymer for Nanoparticle Coating and Functionalization. Small, 2008, 4, 334-341.	10.0	429
3	Studies of Photokilling of Bacteria Using Titanium Dioxide Nanoparticles. Artificial Organs, 2008, 32, 167-174.	1.9	201
4	Modulation of osteogenesis in human mesenchymal stem cells by specific pulsed electromagnetic field stimulation. Journal of Orthopaedic Research, 2009, 27, 1169-1174.	2.3	197
5	Fluorescent Gold Nanoclusters as a Biocompatible Marker for In Vitro and In Vivo Tracking of Endothelial Cells. ACS Nano, 2011, 5, 4337-4344.	14.6	159
6	Effect of pulse-burst electromagnetic field stimulation on osteoblast cell activities. Bioelectromagnetics, 2004, 25, 457-465.	1.6	133
7	Bioanalytics and biolabeling with semiconductor nanoparticles (quantum dots). Journal of Materials Chemistry, 2007, 17, 1343-1346.	6.7	108
8	Pulsed electromagnetic fields prevent osteoporosis in an ovariectomized female rat model: A prostaglandin E2-associated process. Bioelectromagnetics, 2003, 24, 189-198.	1.6	104
9	Pulsed electromagnetic fields affect osteoblast proliferation and differentiation in bone tissue engineering. Bioelectromagnetics, 2007, 28, 519-528.	1.6	100
10	In vitro effects of low-intensity ultrasound stimulation on the bone cells. Journal of Biomedical Materials Research Part B, 2001, 57, 449-456.	3.1	95
11	Dosage effects of curcumin on cell death types in a human osteoblast cell line. Food and Chemical Toxicology, 2006, 44, 1362-1371.	3.6	92
12	Influence of hydroxyapatite particle size on bone cell activities: Anin vitro study. Journal of Biomedical Materials Research Part B, 1998, 39, 390-397.	3.1	81
13	Effects of nano calcium carbonate and nano calcium citrate on toxicity in ICR mice and on bone mineral density in an ovariectomized mice model. Nanotechnology, 2009, 20, 375102.	2.6	77
14	Effect of hydroxyapatite particle size on myoblasts and fibroblasts. Biomaterials, 1997, 18, 683-690.	11.4	66
15	The influence of hydroxyapatite particles on osteoclast cell activities. Journal of Biomedical Materials Research Part B, 1999, 45, 311-321.	3.1	64
16	Study of thermal effects of ultrasound stimulation on fracture healing. Bioelectromagnetics, 2002, 23, 256-263.	1.6	64
17	Effects of different intensities of extremely low frequency pulsed electromagnetic fields on formation of osteoclast-like cells. Bioelectromagnetics, 2003, 24, 431-439.	1.6	63
18	Effects of Low-Intensity Pulsed Ultrasound, Dexamethasone/TGF-Î²1 and/or BMP-2 on the Transcriptional Expression of Genes inÂHuman Mesenchymal Stem Cells: Chondrogenic vs. Osteogenic Differentiation. Ultrasound in Medicine and Biology, 2010, 36, 1022-1033.	1.5	60

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19	Comparison of ultrasound and electromagnetic field effects on osteoblast growth. Ultrasound in Medicine and Biology, 2006, 32, 769-775.	1.5	59
20	Pulsed electromagnetic field stimulation of bone marrow cells derived from ovariectomized rats affects osteoclast formation and local factor production. Bioelectromagnetics, 2004, 25, 134-141.	1.6	53
21	Optimum intensities of ultrasound for pge 2 secretion and growth of osteoblasts. Ultrasound in Medicine and Biology, 2002, 28, 683-690.	1.5	48
22	Pulsed Electromagnetic Fields Accelerate Apoptotic Rate in Osteoclasts. Connective Tissue Research, 2006, 47, 222-228.	2.3	46
23	Effects of functional electrical stimulation cycling exercise on bone mineral density loss in the early stages of spinal cord injury. Journal of Rehabilitation Medicine, 2010, 42, 150-154.	1.1	45
24	The influence on gene-expression profiling of osteoblasts behavior following treatment with the ionic products of sintered Î²-dicalcium pyrophosphate dissolution. Biomaterials, 2004, 25, 607-616.	11.4	34
25	Bone defect healing enhanced by ultrasound stimulation: Anin vitro tissue culture model. , 1999, 46, 253-261.		32
26	Cytokine Release from Osteoblasts in Response to Different Intensities of Pulsed Electromagnetic Field Stimulation. Electromagnetic Biology and Medicine, 2007, 26, 153-165.	1.4	30
27	Osteogenic differentiation is synergistically influenced by osteoinductive treatment and direct cellâ€“cell contact between murine osteoblasts and mesenchymal stem cells. International Orthopaedics, 2012, 36, 199-205.	1.9	25
28	Non-Toxic Gold Nanoclusters for Solution-Processed White Light-Emitting Diodes. Scientific Reports, 2018, 8, 8860.	3.3	25
29	Advantages of Nanotechnology- Based Chinese Herb Drugs on Biological Activities. Current Drug Metabolism, 2009, 10, 905-913.	1.2	24
30	Rapid Transformation of Protein-Caged Nanomaterials into Microbubbles As Bimodal Imaging Agents. ACS Nano, 2012, 6, 5111-5121.	14.6	23
31	Tracking of Cellular Uptake of Hydrophilic CdSe/ZnS Quantum Dots/Hydroxyapatite Composites Nanoparticles in MC3T3-E1 Osteoblast Cells. Journal of Nanoscience and Nanotechnology, 2009, 9, 2758-2762.	0.9	22
32	Study of Fluorescence Enhancement of Colloidal CdSe/ZnS Quantum Dots Bound to Hexadecylamine by Single-Molecule Measurements. Journal of Physical Chemistry C, 2007, 111, 15166-15172.	3.1	21
33	CLINICAL TRIAL OF A CERVICAL TRACTION MODALITY WITH ELECTROMYOGRAPHIC BIOFEEDBACK1. American Journal of Physical Medicine and Rehabilitation, 1997, 76, 19-25.	1.4	21
34	Cytokine and Prostaglandin E2 Release from Leukocytes in Response to Metal Ions Derived from Different Prosthetic Materials: An In Vitro Study. Artificial Organs, 1999, 23, 1099-1106.	1.9	20
35	Application of Gold in Biomedicine: Past, Present and Future. International Journal of Gerontology, 2012, 6, 1-4.	0.6	19
36	The effect of Gu-Sui-Bu (Drynaria fortunei J. Sm) immobilized modified calcium hydrogenphosphate on bone cell activities. Biomaterials, 2003, 24, 873-882.	11.4	17

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37	Effects of Ultrasound on Osteotomy Healing in a Rabbit Fracture Model. Ultrasound in Medicine and Biology, 2011, 37, 1635-1643.	1.5	14
38	Effect of anti-inflammatory medication on monocyte response to titanium particles. Journal of Biomedical Materials Research Part B, 2000, 52, 509-516.	3.1	11
39	Colloidal CdSeâ€“ZnS core-shell nanoparticles: Dependence of physical properties on initial Cd to Se concentration. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 33, 388-393.	2.7	11
40	Dihydrolipoic Acid Induces Cytotoxicity in Mouse Blastocysts through Apoptosis Processes. International Journal of Molecular Sciences, 2012, 13, 3988-4002.	4.1	8
41	Impact of dihydrolipoic acid on mouse embryonic stem cells and related regulatory mechanisms. Environmental Toxicology, 2013, 28, 87-97.	4.0	8
42	Highly luminescent CdSe nanoparticles embedded in silica thin films. Journal of Electroceramics, 2006, 17, 21-29.	2.0	7
43	Two new, near-infrared, fluorescent probes as potential tools for imaging bone repair. Scientific Reports, 2020, 10, 2580.	3.3	6
44	A realâ€time feature extraction method for PVC detection in bedside monitor. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 1987, 10, 511-516.	1.1	4
45	QUANTUM DOT APPLICATIONS IN BIOTECHNOLOGY: PROGRESS AND CHALLENGES. Annual Review of Nano Research, 2006, , 467-530.	0.2	4
46	Development of a biofeedback tilt-table for investigating orthostatic syncope in patients with spinal cord injury. Medical and Biological Engineering and Computing, 2007, 45, 1223-1228.	2.8	3
47	Relationships between physiological responses and presyncope symptoms during tilting up in patients with spinal cord injury. Medical and Biological Engineering and Computing, 2008, 46, 681-688.	2.8	3
48	Ambulation study of a woman with paraplegia using a reciprocating gait orthosis with functional electrical stimulation in Taiwan: A case report. Disability and Rehabilitation: Assistive Technology, 2009, 4, 429-438.	2.2	3
49	Synthesis and surface modification of highly fluorescent gold nanoclusters and their exploitation for cellular labeling. , 2010, , .		2
50	Template-based formation of ultrasound microbubble contrast agents. RSC Advances, 2016, 6, 69185-69190.	3.6	2
51	Hilbert transform and Fourier descriptors to ECG signal analysis. , 1992, , .		1
52	From mono-PEGylation towards anti-nonspecific protein interaction: comparison of dihydrolipoic acid versus glutathione-capped fluorescent gold nanoclusters using gel electrophoresis. Nanoscale, 2020, 12, 17786-17794.	5.6	1
53	Evaluate total hip prosthesis loosening and fixation with acoustic vibration technique. , 0, , .		0
54	Nonintrusive methodology for wellness baseline profiling. , 2007, 6576, 239.		0

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55	Effects of different PCR temperatures on primer conjugated quantum dots. , 2008, , .		0
56	Topical photosan-mediated photodynamic therapy for DMBA-induced hamster buccal pouch early cancer lesions: an in vivo study. , 2011, , .		0
57	Detection of RBC agglutination in blood typing test using integrated Light-Eye-Technology (iLeyeT). , 2014, , .		0
58	Synthesis and optical properties of shaped gold nanomaterials under dark-field microscope. , 2014, , .		0
59	Synthesis of Gadolinium-doped Fluorescent Au/Ag Nanoclusters as Bimodal MRI Contrast Agents. IFMBE Proceedings, 2014, , 849-851.	0.3	0