Han-Sung Kim

List of Publications by Year
in descending order

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85	788	623574	642610
papers	citations	14 h-index	23 g-index

87	87	87	1418
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Osteoclast-associated receptor blockade prevents articular cartilage destruction via chondrocyte apoptosis regulation. Nature Communications, 2020, 11, 4343.	5.8	60
2	Melatonin Combined with Endoplasmic Reticulum Stress Induces Cell Death via the PI3K/Akt/mTOR Pathway in B16F10 Melanoma Cells. PLoS ONE, 2014, 9, e92627.	1.1	58
3	Oral delivery of a potent anti-angiogenic heparin conjugate by chemical conjugation and physical complexation using deoxycholic acid. Biomaterials, 2014, 35, 6543-6552.	5.7	43
4	Suggestion of Potential Stent Design Parameters to Reduce Restenosis Risk driven by Foreshortening or Dogboning due to Non-uniform Balloon-Stent Expansion. Annals of Biomedical Engineering, 2008, 36, 1118-1129.	1.3	42
5	Melatonin Suppresses Autophagy Induced by Clinostat in Preosteoblast MC3T3-E1 Cells. International Journal of Molecular Sciences, 2016, 17, 526.	1.8	32
6	A novel small-molecule PPI inhibitor targeting integrin Î±vÎ²3-osteopontin interface blocks bone resorption inÂvitro and prevents bone loss in mice. Biomaterials, 2016, 98, 131-142.	5.7	32
7	A comparative study of the physical and mechanical properties of porous hydroxyapatite scaffolds fabricated by solid freeform fabrication and polymer replication method. International Journal of Precision Engineering and Manufacturing, 2011, 12, 695-701.	1.1	31
8	Comparative Study of hydroxyapatite prepared from seashells and eggshells as a bone graft material. Tissue Engineering and Regenerative Medicine, 2014, 11, 113-120.	1.6	30
9	Cyclosporine A Induces Apoptotic and Autophagic Cell Death in Rat Pituitary GH3 Cells. PLoS ONE, 2014, 9, e108981.	1.1	21
10	Lowâ€intensity ultrasound stimulation prevents osteoporotic bone loss in young adult ovariectomized mice. Journal of Orthopaedic Research, 2011, 29, 116-125.	1.2	20
11	Oral delivery of zoledronic acid by non-covalent conjugation with lysine-deoxycholic acid: In vitro characterization and in vivo anti-osteoporotic efficacy in ovariectomized rats. European Journal of Pharmaceutical Sciences, 2016, 82, 1-10.	1.9	19
12	Dehydrocostus lactone suppresses osteoclast differentiation by regulating NFATc1 and inhibits osteoclast activation through modulating migration and lysosome function. FASEB Journal, 2019, 33, 9685-9694.	0.2	19
13	Cinchonine inhibits osteoclast differentiation by regulating TAK1 and AKT, and promotes osteogenesis. Journal of Cellular Physiology, 2021, 236, 1854-1865.	2.0	18
14	Blocking of the Ubiquitin-Proteasome System Prevents Inflammation-Induced Bone Loss by Accelerating M-CSF Receptor c-Fms Degradation in Osteoclast Differentiation. International Journal of Molecular Sciences, 2017, 18, 2054.	1.8	17
15	Micro-Current Stimulation Has Potential Effects of Hair Growth-Promotion on Human Hair Follicle-Derived Papilla Cells and Animal Model. International Journal of Molecular Sciences, 2021, 22, 4361.	1.8	17
16	Real-Time Analysis of Cellular Response to Small-Molecule Drugs within a Microfluidic Dielectrophoresis Device. Analytical Chemistry, 2015, 87, 5914-5920.	3.2	15
17	Deterioration of Bone Quality in the Tibia and Fibula in Growing Mice During Skeletal Unloading: Gender-Related Differences. Journal of Biomechanical Engineering, 2011, 133, 111003.	0.6	14
18	Functionalized heparin-protamine based self-assembled nanocomplex for efficient anti-angiogenic therapy. Journal of Controlled Release, 2015, 197, 180-189.	4.8	14

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19	Anti-skeletal muscle atrophy effect of Oenothera odorata root extract via reactive oxygen species-dependent signaling pathways in cellular and mouse model. Bioscience, Biotechnology and Biochemistry, 2016, 80, 80-88.	0.6	12
20	A biomechanical study of osteoporotic vertebral trabecular bone: The use of micro-CT and high-resolution finite element analysis. Journal of Mechanical Science and Technology, 2007, 21, 593-601.	0.7	11
21	Evaluation of loads imposed on muscles and joints by repeated vacuum cleaning works for estimation of a potentiality of musculo-skeletal disorder occurrence. International Journal of Precision Engineering and Manufacturing, 2012, 13, 429-438.	1.1	11
22	Implications of three-dimensional modeling of the proximal femur for cephalomedullary nailing: An Asian cadaver study. Injury, 2017, 48, 2060-2067.	0.7	11
23	Calorie restriction aggravated cortical and trabecular bone architecture in ovariectomy-induced estrogen-deficient rats. Nutrition Research, 2014, 34, 707-713.	1.3	10
24	Inertial effects on cylindrical particle migration in linear shear flow near a wall. Microfluidics and Nanofluidics, 2016, 20, 1.	1.0	10
25	Water extract of Magnolia officinalis cortex inhibits osteoclastogenesis and bone resorption by downregulation of nuclear factor of activated T cells cytoplasmic 1. Integrative Medicine Research, 2015, 4, 102-111.	0.7	9
26	Effect ofOenothera odorataRoot Extract on Microgravity and Disuse-Induced Muscle Atrophy. Evidence-based Complementary and Alternative Medicine, 2015, 2015, 1-9.	0.5	9
27	An Experimental and Theoretical Approach to Optimize a Three-Dimensional Clinostat for Life Science Experiments. Microgravity Science and Technology, 2017, 29, 97-106.	0.7	9
28	Micro-Current Stimulation Suppresses Inflammatory Responses in Peptidoglycan-Treated Raw 264.7 Macrophages and Propionibacterium acnes-Induced Skin Inflammation via TLR2/NF-Î°B Signaling Pathway. International Journal of Molecular Sciences, 2022, 23, 2508.	1.8	9
29	Suggestion of new methodology for evaluation of osseointegration between implant and bone based on l¼-CT images. International Journal of Precision Engineering and Manufacturing, 2010, 11, 785-790.	1.1	8
30	Trabecular bone loss in lumbar vertebrae and tibiae following sciatic nerve injury: correlation between baseline bone quantity (BV/TV) and the magnitude and rate of bone loss. International Journal of Precision Engineering and Manufacturing, 2012, 13, 1705-1708.	1.1	8
31	The effects of minimally invasive laser needle system on suppression of trabecular bone loss induced by skeletal unloading. Lasers in Medical Science, 2013, 28, 1495-1502.	1.0	8
32	Antiangiogenic Activity of Acer tegmentosum Maxim Water Extract in Vitro and in Vivo. Journal of Korean Medical Science, 2015, 30, 979.	1.1	8
33	Melatonin-Mediated Intracellular Insulin during 2-Deoxy-d-glucose Treatment Is Reduced through Autophagy and EDC3 Protein in Insulinoma INS-1E Cells. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-11.	1.9	8
34	Effect of erythrocyte aggregation at pathological levels on NO/O2 transport in small arterioles. Clinical Hemorheology and Microcirculation, 2015, 59, 163-175.	0.9	7
35	Integrative Evaluation of Automated Massage Combined with Thermotherapy: Physical, Physiological, and Psychological Viewpoints. BioMed Research International, 2016, 2016, 1-8.	0.9	7
36	Elastic Modulus of Osteoporotic Mouse Femur Based on Femoral Head Compression Test. Applied Bionics and Biomechanics, 2017, 2017, 1-10.	0.5	7

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37	Stress analysis of two-dimensional cellular materials with thick cell struts. Journal of Mechanical Science and Technology, 2008, 22, 835-845.	0.7	6
38	Computational simulation study on ilio-sacral screw fixations for pelvic ring injuries and implications in Asian sacrum. European Journal of Orthopaedic Surgery and Traumatology, 2018, 28, 439-444.	0.6	6
39	Intensive morphometric analysis of enormous alterations in skeletal bone system with micro-CT for AHNAKâ˜†/â˜† mice. Anatomical Science International, 2020, 95, 323-333.	0.5	6
40	Tetraspanin 7 regulates osteoclast function through association with the RANK/Î±vÎ²3 integrin complex. Journal of Cellular Physiology, 2022, 237, 846-855.	2.0	6
41	Selective position of individual cells without lysis on a circular window array using dielectrophoresis in a microfluidic device. Microfluidics and Nanofluidics, 2017, 21, 1.	1.0	6
42	A lateral speckle tracking algorithm for ultrasound elastography. Journal of the Korean Physical Society, 2012, 60, 171-176.	0.3	5
43	A Study of Impact on Head and Neck Using Human Volunteer Low-Speed Rear Impact Tests. Korean Journal of Legal Medicine, 2013, 37, 66.	0.1	5
44	Development of a shear measurement sensor for measuring forces at humanâ€“machine interfaces. Medical Engineering and Physics, 2014, 36, 1721-1728.	0.8	5
45	Decreased Bone Volume and Bone Mineral Density in the Tibial Trabecular Bone Is Associated with Per2 Gene by 405 nm Laser Stimulation. International Journal of Molecular Sciences, 2015, 16, 27401-27410.	1.8	5
46	Activation of mTOR for the loss of skeletal muscle in a hindlimb-suspended rat model. International Journal of Precision Engineering and Manufacturing, 2015, 16, 1003-1010.	1.1	5
47	Development of a Sensor to Measure Stump/Socket Interfacial Shear Stresses in a Lower-Extremity Amputee. International Journal of Precision Engineering and Manufacturing, 2018, 19, 899-905.	1.1	5
48	Characteristics of Sodium Polyacrylate/Nano-Sized Carbon Hydrogel for Biomedical Patch. Journal of Nanoscience and Nanotechnology, 2018, 18, 1611-1614.	0.9	5
49	Simulation of the disc degeneration with a poroelastic finite element model. Journal of Mechanical Science and Technology, 2007, 21, 1178-1183.	0.7	4
50	Enhancement of bone quality and longitudinal growth due to free-fall motion in growing rats. Biomedical Engineering Letters, 2015, 5, 73-78.	2.1	4
51	Development of a shear force measurement dummy for seat comfort. PLoS ONE, 2017, 12, e0187918.	1.1	4
52	Linoleic Acid Attenuates Denervation-Induced Skeletal Muscle Atrophy in Mice through Regulation of Reactive Oxygen Species-Dependent Signaling. International Journal of Molecular Sciences, 2022, 23, 4778.	1.8	4
53	1C5-1 Measurement of Characteristic Change using MyotonPRO in Low Back Muscles during a Long-term Driving; Pilot Study. Ningen Kogaku = the Japanese Journal of Ergonomics, 2015, 51, S450-S453.	0.0	3
54	Effects of Partial Vibration on Morphological Changes in Bone and Surrounding Muscle of Rats Under Microgravity Condition: Comparative Study by Gender. Microgravity Science and Technology, 2015, 27, 361-368.	0.7	3

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55	Design of a stimulation protocol to predict temperature distribution in subcutaneous tissue using the finite element model. Biomedical Engineering Letters, 2017, 7, 261-266.	2.1	3
56	The Effects of Partial Vibration on Tibia of Osteoporosis Induced Rat. Journal of the Korean Society for Precision Engineering, 2012, 29, 578-583.	0.1	3
57	The effects of circadian disturbances induced by night shifts on the mouse peripheral tissues. Animal Cells and Systems, 2012, 16, 357-365.	0.8	2
58	Data of intracellular insulin protein reduced by autophagy in INS-1E cells. Data in Brief, 2016, 8, 1151-1156.	0.5	2
59	Biomechanical Study on the Convenience of Loading and Unloading Laundry in Clothes Dryer. International Journal of Precision Engineering and Manufacturing, 2018, 19, 907-915.	1.1	2
60	Low-speed rear impact sled tests involving human subjects. Annals of Advances in Automotive Medicine, 2013, 57, 353-6.	0.6	2
61	Alterations to the mechanical response of the gastrointestinal tract induced by functional gastrointestinal disorders and the feasibility of developing an ultrasonic diagnostic system. Journal of Mechanical Science and Technology, 2008, 22, 846-855.	0.7	1
62	Mechanical Properties of Blood-mixed PMMA in Percutaneous Vertebroplasty. Journal of Korean Society of Spine Surgery, 2009, 16, 259.	0.3	1
63	Longitudinal Changes in Apparent Young Modulus and Bone Volume by Denervation: Subject-Specific Finite Element Analysis Considering Heterogeneous Tissue Properties. Journal of Biomechanical Science and Engineering, 2011, 6, 213-221.	0.1	1
64	Analysis of stress distribution of tooth restored with metal-ceramic crown covering abfraction lesion according to its finish line location under occlusal load. The Journal of Korean Academy of Prosthodontics, 2014, 52, 305.	0.0	1
65	Effect of stool height on slumped posture during push-and-pull weeding motion. Biomedical Engineering Letters, 2015, 5, 79-86.	2.1	1
66	Variations in gait features in elderly adults during walking considering their balance. Biomedical Engineering Letters, 2017, 7, 333-338.	2.1	1
67	Therapeutic Effects of Multimodal Biophysical Stimulation on Muscle Atrophy in a Mouse Model. International Journal of Precision Engineering and Manufacturing, 2018, 19, 1553-1560.	1.1	1
68	Analysis of Ankle Joint Motions for 12 Different Activities of Daily Living in the Elderly Using the Pattern Recognition Approach. International Journal of Precision Engineering and Manufacturing, 2020, 21, 1113-1126.	1.1	1
69	Biomechanical Methodology for Evaluating Seat Comfort During Long Term Driving According to the Variation of Seat Back Angle. Advances in Intelligent Systems and Computing, 2019, , 296-302.	0.5	1
70	Micro-CT Evaluation in Osteoporosis Model. Korean Journal of Physical Anthropology, 2005, 18, 283.	0.2	1
71	A study on the mechanical characteristics of vertebral trabecular bones using the micro-FE models(Bone Mechanics). The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2004, 2004.1, 37-38.	0.0	1
72	Finding suitable candidates for vacuum bell therapy in pectus excavatum patients. Scientific Reports, 2021, 11, 22787.	1.6	1

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73	Removal Torque and Histometric Evaluations of Implants with Various Area of Hydroxyapatite Coating Placed in the Rabbit Tibia. The Journal of the Korean Academy of Periodontology, 2003, 33, 625.	0.1	0
74	Histomorphometric evaluation of the implant designed by shape optimization technique. The Journal of the Korean Academy of Periodontology, 2004, 34, 35.	0.1	0
75	Mapping of the morphological and the material characteristics on the glenoid and estimation of predominant loading condition on the glenoid through the mapping. Journal of Mechanical Science and Technology, 2009, 23, 409-419.	0.7	0
76	Mathematical modeling of nitric oxide diffusion in small arterioles. International Journal of Precision Engineering and Manufacturing, 2013, 14, 2021-2026.	1.1	0
77	Deterioration of trabecular bone microarchitecture in the lumbar vertebrae in growing male mice following sciatic neurectomy. International Journal of Precision Engineering and Manufacturing, 2014, 15, 2605-2610.	1.1	0
78	Special issue on biomechanics. Biomedical Engineering Letters, 2015, 5, 71-72.	2.1	0
79	Molecular dynamics simulation to investigate structural characteristics of aggrecan in degenerated intervertebral discs. Biomedical Engineering Letters, 2015, 5, 65-69.	2.1	0
80	The effect of multi-frequency whole-body vibration on night-shifted mouse model. Sleep and Biological Rhythms, 2018, 16, 387-398.	0.5	0
81	The effect of Micro-current electrical stimulation on muscle atrophy caused by sciatic nerve compression. , 2019, , .		0
82	STABILITY EVALUATION IN TERMS OF CROWN TO FIXTURE RATIO OF DENTAL IMPLANTFINITE ELEMENT ANALYSIS(3D1 Dental Biomechanics). The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2007, 2007.3, S222.	0.0	0
83	An Anthropometric Study in Korean Humerus. Korean Journal of Physical Anthropology, 2008, 21, 331.	0.2	0
84	P-15ã€€LUMBAR FLEXION MOMENT MESUREMENT USING SEPARATED SEAT: THE INFLUENCE OF SEAT CONDITION. Ningen Kogaku = the Japanese Journal of Ergonomics, 2017, 53, S730-S731.	0.0	0
85	The evaluation of a combined ceramic material-based therapy in the musculoskeletal disorders: morphological analysis by micro-CT. , 2019, , .		0