

Soon Jung Hwang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/427840/publications.pdf>

Version: 2024-02-01

76
papers

2,012
citations

304368

22
h-index

253896

43
g-index

79
all docs

79
docs citations

79
times ranked

2987
citing authors

#	ARTICLE	IF	CITATIONS
1	Bone regeneration using hyaluronic acid-based hydrogel with bone morphogenic protein-2 and human mesenchymal stem cells. <i>Biomaterials</i> , 2007, 28, 1830-1837.	5.7	462
2	Biphasic electric current stimulates proliferation and induces VEGF production in osteoblasts. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2006, 1763, 907-916.	1.9	104
3	Novel Effect of Biphasic Electric Current on <i>In Vitro</i> Osteogenesis and Cytokine Production in Human Mesenchymal Stromal Cells. <i>Tissue Engineering - Part A</i> , 2009, 15, 2411-2422.	1.6	97
4	Synthesis and characterization of matrix metalloprotease sensitive-low molecular weight hyaluronic acid based hydrogels. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 3311-3318.	1.7	76
5	Characterization of low molecular weight hyaluronic acid based hydrogel and differential stem cell responses in the hydrogel microenvironments. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 88A, 967-975.	2.1	72
6	<i>In vivo</i> evaluation of MMP sensitive high molecular weight HA based hydrogels for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 95A, 673-681.	2.1	66
7	The effect of dose on rhBMP-2 signaling, delivered via collagen sponge, on osteoclast activation and <i>in vivo</i> bone resorption. <i>Biomaterials</i> , 2014, 35, 1869-1881.	5.7	52
8	Change in condylar position in posterior bending osteotomy minimizing condylar torque in BSSRO for facial asymmetry. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2014, 42, 325-332.	0.7	50
9	Interferences between mandibular proximal and distal segments in orthognathic surgery for patients with asymmetric mandibular prognathism depending on different osteotomy techniques. <i>Oral Surgery Oral Medicine Oral Pathology Oral Radiology and Endodontics</i> , 2010, 110, 18-24.	1.6	49
10	<i>In vitro</i> response of primary human bone marrow stromal cells to recombinant human bone morphogenic protein-2 in the early and late stages of osteoblast differentiation. <i>Development Growth and Differentiation</i> , 2008, 50, 553-564.	0.6	48
11	Estrogen Modulates Bone Morphogenetic Protein-Induced Sclerostin Expression Through the Wnt Signaling Pathway. <i>Tissue Engineering - Part A</i> , 2015, 21, 2076-2088.	1.6	48
12	Promising Efficacy of <i>Escherichia coli</i> Recombinant Human Bone Morphogenetic Protein-2 in Collagen Sponge for Ectopic and Orthotopic Bone Formation and Comparison with Mammalian Cell Recombinant Human Bone Morphogenetic Protein-2. <i>Tissue Engineering - Part A</i> , 2011, 17, 337-348.	1.6	47
13	Relapse after SSRO for mandibular setback movement in relation to the amount of mandibular setback and intraoperative clockwise rotation of the proximal segment. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2014, 42, 811-815.	0.7	42
14	Three-dimensional analysis of postoperative returning movement of perioperative condylar displacement after bilateral sagittal split ramus osteotomy for mandibular setback with different fixation methods. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2015, 43, 1918-1925.	0.7	37
15	Extremely Small-magnitude Accelerations Enhance Bone Regeneration: A Preliminary Study. <i>Clinical Orthopaedics and Related Research</i> , 2009, 467, 1083-1091.	0.7	36
16	Bone mineral density and mandibular advancement as contributing factors for postoperative relapse after orthognathic surgery in patients with preoperative idiopathic condylar resorption: a prospective study with preliminary 1-year follow-up. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , 2015, 120, 112-118.	0.2	33
17	Relapse of skeletal class III with anterior open bite after bimaxillary orthognathic surgery depending on maxillary posterior impaction and mandibular counterclockwise rotation. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2014, 42, e230-e238.	0.7	31
18	Contributing factors to intraoperative clockwise rotation of the proximal segment as a relapse factor after mandibular setback with sagittal split ramus osteotomy. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2014, 42, e57-e63.	0.7	31

#	ARTICLE	IF	CITATIONS
19	Soft tissue profile changes after setback genioplasty in orthognathic surgery patients. Journal of Cranio-Maxillo-Facial Surgery, 2013, 41, 657-664.	0.7	29
20	Synergistic action of static stretching and BMP-2 stimulation in the osteoblast differentiation of C2C12 myoblasts. Journal of Biomechanics, 2009, 42, 2721-2727.	0.9	26
21	Bone Regeneration by Transplantation of Human Mesenchymal Stromal Cells in a Rabbit Mandibular Distraction Osteogenesis Model. Tissue Engineering - Part A, 2013, 19, 66-78.	1.6	25
22	Evaluation of postoperative stability after BSSRO to correct facial asymmetry depending on the amount of bone contact between the proximal and distal segment. Journal of Cranio-Maxillo-Facial Surgery, 2014, 42, e165-e170.	0.7	24
23	Comparative study of BMP-2 alone and combined with VEGF carried by hydrogel for maxillary alveolar bone regeneration. Tissue Engineering and Regenerative Medicine, 2016, 13, 171-181.	1.6	24
24	Three-dimensional natural head position reproduction using a single facial photograph based on the POSIT method. Journal of Cranio-Maxillo-Facial Surgery, 2014, 42, 1315-1321.	0.7	23
25	High power pulsed Nd:YAG laser as a new stimulus to induce BMP-2 expression in MC3T3-E1 osteoblasts. Lasers in Surgery and Medicine, 2010, 42, 510-518.	1.1	22
26	Biphasic Electrical Targeting Plays a Significant Role in Schwann Cell Activation. Tissue Engineering - Part A, 2011, 17, 1327-1340.	1.6	22
27	Early and Marked Enhancement of New Bone Quality by Alendronate-Loaded Collagen Sponge Combined with Bone Morphogenetic Protein-2 at High Dose: A Long-Term Study in Calvarial Defects in a Rat Model. Tissue Engineering - Part A, 2017, 23, 1343-1360.	1.6	22
28	Functional Regeneration of a Severed Peripheral Nerve With a 7-mm Gap in Rats Through the Use of An Implantable Electrical Stimulator and a Conduit Electrode With Collagen Coating. Neuromodulation, 2010, 13, 299-305.	0.4	20
29	Enhanced regeneration of rabbit mandibular defects through a combined treatment of electrical stimulation and rhBMP-2 application. Medical and Biological Engineering and Computing, 2013, 51, 1339-1348.	1.6	20
30	Effect of bone marrow-derived stem cells and bone morphogenetic protein-2 on treatment of osteoradionecrosis in a rat model. Journal of Cranio-Maxillo-Facial Surgery, 2015, 43, 1478-1486.	0.7	20
31	The Implications of the Response of Human Mesenchymal Stromal Cells in Three-Dimensional Culture to Electrical Stimulation for Tissue Regeneration. Tissue Engineering - Part A, 2012, 18, 432-445.	1.6	19
32	An integrated orthognathic surgery system for virtual planning and image-guided transfer without intermediate splint. Journal of Cranio-Maxillo-Facial Surgery, 2014, 42, 2010-2017.	0.7	19
33	Virtual skeletal complex model- and landmark-guided orthognathic surgery system. Journal of Cranio-Maxillo-Facial Surgery, 2016, 44, 557-568.	0.7	17
34	Real-time augmented model guidance for mandibular proximal segment repositioning in orthognathic surgery, using electromagnetic tracking. Journal of Cranio-Maxillo-Facial Surgery, 2019, 47, 127-137.	0.7	17
35	Pulsed Electromagnetic Fields Enhance Bone Morphogenetic Protein-2 Dependent-Bone Regeneration. Tissue Engineering - Part A, 2015, 21, 2629-2637.	1.6	16
36	Effect of sustained release of rhBMP-2 from dried and wet hyaluronic acid hydrogel carriers compared with direct dip coating of rhBMP-2 on peri-implant osteogenesis of dental implants in canine mandibles. Journal of Cranio-Maxillo-Facial Surgery, 2016, 44, 116-125.	0.7	16

#	ARTICLE	IF	CITATIONS
37	High-intensity Nd:YAG laser accelerates bone regeneration in calvarial defect models. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015, 9, 943-951.	1.3	15
38	Combination of three angiogenic growth factors has synergistic effects on sprouting of endothelial cell/mesenchymal stem cell-based spheroids in a 3D matrix. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 1535-1543.	1.6	15
39	Differential modulation of zoledronate and etidronate in osseous healing of an extracted socket and tibia defect. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , 2017, 123, 8-19.	0.2	15
40	Is Heparin Effective for the Controlled Delivery of High-Dose Bone Morphogenetic Protein-2?. <i>Tissue Engineering - Part A</i> , 2016, 22, 801-817.	1.6	14
41	Bone healing capacity of conditioned medium derived from three-dimensionally cultivated human mesenchymal stem cells and electrical stimulation on collagen sponge. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 311-320.	2.1	14
42	Effect of mesenchymal stem cells and platelet-derived growth factor on the healing of radiation induced ulcer in rats. <i>Tissue Engineering and Regenerative Medicine</i> , 2016, 13, 78-90.	1.6	12
43	Postoperative stability following maxillary downward movement with Le Fort I inclined osteotomy at the lateral nasal cavity wall. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2012, 40, 793-798.	0.7	11
44	Reduced joint distance during TMJ movement in the posterior condylar position. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2013, 41, e159-e164.	0.7	11
45	Implantable electrical stimulation bioreactor with liquid crystal polymer-based electrodes for enhanced bone regeneration at mandibular large defects in rabbit. <i>Medical and Biological Engineering and Computing</i> , 2020, 58, 383-399.	1.6	11
46	Robot-Assisted Maxillary Positioning in Orthognathic Surgery: A Feasibility and Accuracy Evaluation. <i>Journal of Clinical Medicine</i> , 2021, 10, 2596.	1.0	10
47	<i>In Vivo</i> Gene Activity of Human Mesenchymal Stem Cells After Scaffold-Mediated Local Transplantation. <i>Tissue Engineering - Part A</i> , 2014, 20, 2350-2364.	1.6	9
48	Repositioning of the Maxillomandibular Complex Using Maxillary Template Adjusted Only by Maxillary Surface Configuration Without an Intermediate Splint in Orthognathic Surgery. <i>Journal of Craniofacial Surgery</i> , 2016, 27, 1550-1553.	0.3	8
49	Local administration of nuclear factor of activated T cells (NFAT) c1 inhibitor to suppress early resorption and inflammation induced by bone morphogenetic protein-2. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 1299-1310.	2.1	8
50	Quantitative Augmented Reality-Assisted Free-Hand Orthognathic Surgery Using Electromagnetic Tracking and Skin-Attached Dynamic Reference. <i>Journal of Craniofacial Surgery</i> , 2020, 31, 2175-2181.	0.3	8
51	Enhanced Bone Regeneration by Bone Morphogenetic Protein-2 after Pretreatment with Low-Intensity Pulsed Ultrasound in Distraction Osteogenesis. <i>Tissue Engineering and Regenerative Medicine</i> , 2022, 19, 871-886.	1.6	8
52	Evaluation of early postoperative healing of pterygomaxillary region after LeFort I osteotomy with total maxillary setback movement. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , 2014, 118, 647-654.	0.2	7
53	Accuracy of 3D reproduction of natural head position using three different manual reorientation methods compared to 3D software. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2018, 46, 1625-1630.	0.7	6
54	Effect of bFGF and fibroblasts combined with hyaluronic acid-based hydrogels on soft tissue augmentation: an experimental study in rats. <i>Maxillofacial Plastic and Reconstructive Surgery</i> , 2019, 41, 47.	0.7	6

#	ARTICLE	IF	CITATIONS
55	Effects of 17 β -Estradiol Deficiency and Mechanical Overload on Osseous Changes in the Rat Temporomandibular Joint. <i>Journal of Oral and Maxillofacial Surgery</i> , 2020, 78, 214.e1-214.e14.	0.5	6
56	A Complete Digital Workflow for Planning, Simulation, and Evaluation in Orthognathic Surgery. <i>Journal of Clinical Medicine</i> , 2021, 10, 4000.	1.0	6
57	Efficacy and safety of rhBMP/ β -TCP in alveolar ridge preservation: a multicenter, randomized, open-label, comparative, investigator-blinded clinical trial. <i>Maxillofacial Plastic and Reconstructive Surgery</i> , 2021, 43, 42.	0.7	6
58	Evaluation of intra-articular distance narrowing during temporomandibular joint movement in patients with facial asymmetry using 3-dimensional computed tomography image and tracking camera system. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2015, 43, 342-348.	0.7	5
59	Horizontal change of philtrum after orthognathic surgery in patients with facial asymmetry. <i>Maxillofacial Plastic and Reconstructive Surgery</i> , 2019, 41, 48.	0.7	5
60	Preliminary approach of real-time monitoring in vitro matrix mineralization based on surface plasmon resonance detection. <i>Biotechnology and Bioengineering</i> , 2011, 108, 1473-1478.	1.7	4
61	Osseous alterations in the condylar head after unilateral surgical directional change in rabbit mandibular condyles: Preliminary study. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2014, 42, 1632-1638.	0.7	4
62	Receptor Activator of Nuclear Factor Kappa-B Ligand-Induced Local Osteoporotic Canine Mandible Model for the Evaluation of Peri-Implant Bone Regeneration. <i>Tissue Engineering - Part C: Methods</i> , 2017, 23, 781-794.	1.1	4
63	Change of the upper airway after mandibular setback surgery in patients with mandibular prognathism and anterior open bite. <i>Maxillofacial Plastic and Reconstructive Surgery</i> , 2019, 41, 51.	0.7	4
64	Effect of perioperative buccal fracture of the proximal segment on postoperative stability after sagittal split ramus osteotomy. <i>Journal of the Korean Association of Oral and Maxillofacial Surgeons</i> , 2013, 39, 217.	0.3	3
65	Periimplant bone regeneration in hydroxyapatite block grafts with mesenchymal stem cells and bone morphogenetic protein-2. <i>Tissue Engineering and Regenerative Medicine</i> , 2016, 13, 437-445.	1.6	3
66	Relapse related to pushing and rebounding action in maxillary anterior downgraft with mandibular setback surgery. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2018, 46, 1336-1342.	0.7	3
67	Automatic Reproduction of Natural Head Position Using a Portable 3D Scanner Based on Immediate Calibration. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 174.	1.3	3
68	Development of Autonomous Robot Osteotomy for Mandibular Ramal Bone Harvest and Evaluation of Its Accuracy: A Phantom Mandible-Based Trial. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2885.	1.3	3
69	A Robot Arm and Image-Guided Navigation Assisted Surgical System for Maxillary Repositioning in Orthognathic Surgery: A Phantom Skull-Based Trial. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1549.	1.3	2
70	Comparison of condylar displacement after sagittal split ramus osteotomy depending on the glenoid fossa depth. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2021, 49, 9-16.	0.7	1
71	Bone regeneration using MMP sensitive-hyaluronic acid based hydrogels. , 2009, , .		0
72	A surface plasmon resonance sensor for quantitative analysis of mineralization of osteoblast cells. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
73	Unilateral bimaxillary vertical elongation by maxillary distraction osteogenesis and mandibular sagittal split ramus osteotomy: a case report. Journal of the Korean Association of Oral and Maxillofacial Surgeons, 2011, 37, 539.	0.3	0
74	Relocation of the mandibular monocortical segment for reconstruction of a defect of the mandibular angle. British Journal of Oral and Maxillofacial Surgery, 2016, 54, 473-474.	0.4	0
75	Postoperative relapse after mandibular setback surgery with perioperative counterclockwise rotation of the mandibular proximal segment. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2016, 121, 609-617.	0.2	0
76	Surface Topography-Based Positioning Accuracy of Maxillary Templates Fabricated by the CAD/CAM Technique for Orthognathic Surgery without an Intermediate Splint. Applied Sciences (Switzerland), 2019, 9, 4928.	1.3	0