Chan Hum Park

List of Publications by Citations

127 papers	2,873 citations	29 h-index	47 g-index
130 ext. papers	3,630 ext. citations	5.1 avg, IF	5.1 L-index

#	Paper	IF	Citations
127	Precisely printable and biocompatible silk fibroin bioink for digital light processing 3D printing. *Nature Communications*, **2018**, 9, 1620	17.4	295
126	Wound healing effect of electrospun silk fibroin nanomatrix in burn-model. *International Journal of Biological Macromolecules*, **2016**, 85, 29-39	7.9	112
125	3D electrospun silk fibroin nanofibers for fabrication of artificial skin. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2015**, 11, 681-91	6	106
124	Digital light processing 3D printed silk fibroin hydrogel for cartilage tissue engineering. *Biomaterials*, **2020**, 232, 119679	15.6	103
123	Three-dimensional electrospun silk-fibroin nanofiber for skin tissue engineering. *International Journal of Biological Macromolecules*, **2016**, 93, 1567-1574	7.9	101
122	NF-B signaling is key in the wound healing processes of silk fibroin. *Acta Biomaterialia*, **2018**, 67, 183-195	10.8	83
121	Hearing outcomes of daily intratympanic dexamethasone alone as a primary treatment modality for ISSHL. *Otolaryngology - Head and Neck Surgery*, **2009**, 141, 579-83	5.5	81
120	Comparison of methods for the repair of acute tympanic membrane perforations: Silk patch vs. paper patch. *Wound Repair and Regeneration*, **2010**, 18, 132-8	3.6	81
119	Fabrication of 3D porous silk scaffolds by particulate (salt/sucrose) leaching for bone tissue reconstruction. *International Journal of Biological Macromolecules*, **2015**, 78, 215-23	7.9	68
118	Inverted papilloma of the nasal cavity and paranasal sinuses: a Korean multicenter study. *Laryngoscope*, **2012**, 122, 487-94	3.6	65
117	4D-bioprinted silk hydrogels for tissue engineering. *Biomaterials*, **2020**, 260, 120281	15.6	62
116	Hybrid scaffolds based on PLGA and silk for bone tissue engineering. *Journal of Tissue Engineering and Regenerative Medicine*, **2016**, 10, 209-21	4.4	60
115	Three dimensional poly(caprolactone) and silk fibroin nanocomposite fibrous matrix for artificial dermis. *Materials Science and Engineering C*, **2016**, 68, 758-767	8.3	54
114	An experimental burn wound-healing study of non-thermal atmospheric pressure microplasma jet arrays. *Journal of Tissue Engineering and Regenerative Medicine*, **2016**, 10, 348-57	4.4	53
113	Development of artificial dermis using 3D electrospun silk fibroin nanofiber matrix. *Journal of Biomedical Nanotechnology*, **2014**, 10, 1294-303	4	44
112	Artificial Auricular Cartilage Using Silk Fibroin and Polyvinyl Alcohol Hydrogel. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	43
111	3D silk fibroin scaffold incorporating titanium dioxide (TiO2) nanoparticle (NPs) for tissue engineering. *International Journal of Biological Macromolecules*, **2014**, 68, 158-68	7.9	41

110	Effect of pore sizes of silk scaffolds for cartilage tissue engineering. *Macromolecular Research*, **2015**, 23, 1091-1097	1.9	39
109	Preparation and in vivo degradation of controlled biodegradability of electrospun silk fibroin nanofiber mats. *Journal of Biomedical Materials Research - Part A*, **2012**, 100, 3287-95	5.4	39
108	Osteoinductive silk fibroin/titanium dioxide/hydroxyapatite hybrid scaffold for bone tissue engineering. *International Journal of Biological Macromolecules*, **2016**, 82, 160-7	7.9	38
107	Novel fabrication of fluorescent silk utilized in biotechnological and medical applications. *Biomaterials*, **2015**, 70, 48-56	15.6	37
106	Fabrication and characterization of hydrocolloid dressing with silk fibroin nanoparticles for wound healing. *Tissue Engineering and Regenerative Medicine*, **2016**, 13, 218-226	4.5	37
105	Enhanced osteogenesis of tricalcium phosphate reinforced silk fibroin scaffold for bone tissue biofabrication. *International Journal of Biological Macromolecules*, **2017**, 95, 14-23	7.9	34
104	Biodegradation behavior of silk fibroin membranes in repairing tympanic membrane perforations. *Journal of Biomedical Materials Research - Part A*, **2012**, 100, 2018-26	5.4	34
103	Fabrication of duck's feet collagen-silk hybrid biomaterial for tissue engineering. *International Journal of Biological Macromolecules*, **2016**, 85, 442-50	7.9	31
102	Enhancing the viability of fat grafts using new transfer medium containing insulin and beta-fibroblast growth factor in autologous fat transplantation. *Journal of Plastic, Reconstructive and Aesthetic Surgery*, **2010**, 63, 1202-8	1.7	31
101	Three-layered scaffolds for artificial esophagus using poly(e-caprolactone) nanofibers and silk fibroin: An experimental study in a rat model. *Journal of Biomedical Materials Research - Part A*, **2015**, 103, 2057-65	5.4	30
100	New concept of 3D printed bone clip (polylactic acid/hydroxyapatite/silk composite) for internal fixation of bone fractures. *Journal of Biomaterials Science, Polymer Edition*, **2018**, 29, 894-906	3.5	29
99	Fabrication of silk fibroin film using centrifugal casting technique for corneal tissue engineering. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2016**, 104, 508-14	3.5	29
98	The effectiveness of 1-point fixation for zygomaticomaxillary complex fractures. *JAMA Otolaryngology*, **2012**, 138, 828-32		28
97	Vestibular-evoked myogenic potentials in migrainous vertigo. *Otolaryngology - Head and Neck Surgery*, **2011**, 144, 284-7	5.5	27
96	Saccular damage in patients with idiopathic sudden sensorineural hearing loss without vertigo. *Otolaryngology - Head and Neck Surgery*, **2008**, 139, 541-5	5.5	27
95	Hyperglycemia as a potential prognostic factor of idiopathic sudden sensorineural hearing loss. *Otolaryngology - Head and Neck Surgery*, **2014**, 150, 853-8	5.5	25
94	Clinical outcomes of silk patch in acute tympanic membrane perforation. *Clinical and Experimental Otorhinolaryngology*, **2015**, 8, 117-22	3.4	25
93	The fixation effect of a silk fibroin-bacterial cellulose composite plate in segmental defects of the zygomatic arch: an experimental study. *JAMA Otolaryngology - Head and Neck Surgery*, **2013**, 139, 629-35	3.9	24

92	Resorbable skeletal fixation systems for treating maxillofacial bone fractures. *JAMA Otolaryngology*, **2011**, 137, 125-9		24
91	Silk Fibroin in Wound Healing Process. *Advances in Experimental Medicine and Biology*, **2018**, 1077, 115-126	3.6	24
90	A 3D Printable Electroconductive Biocomposite Bioink Based on Silk Fibroin-Conjugated Graphene Oxide. *Nano Letters*, **2020**, 20, 6873-6883	11.5	21
89	Fabrication of 3D porous SF/β-TCP hybrid scaffolds for bone tissue reconstruction. *Journal of Biomedical Materials Research - Part A*, **2016**, 104, 1779-87	5.4	20
88	A novel approach to fabricate silk nanofibers containing hydroxyapatite nanoparticles using a three-way stopcock connector. *Nanoscale Research Letters*, **2013**, 8, 303	5	20
87	Fabrication of a highly effective electrochemical urea sensing platform based on urease-immobilized silk fibroin scaffold and aminated glassy carbon electrode. *Sensors and Actuators B: Chemical*, **2017**, 251, 472-480	8.5	19
86	Recent Advances in Fluorescent Silk Fibroin. *Frontiers in Materials*, **2020**, 7,	4	19
85	Novel fabrication method of the peritoneal dialysis filter using silk fibroin with urease fixation system. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2017**, 105, 2136-2144	3.5	19
84	Silk fibroin based hydrogel for regeneration of burn induced wounds. *Tissue Engineering and Regenerative Medicine*, **2014**, 11, 203-210	4.5	18
83	Fabrication of poly(lactic-co-glycolic acid) scaffolds containing silk fibroin scaffolds for tissue engineering applications. *Journal of Biomedical Materials Research - Part A*, **2014**, 102, 2713-24	5.4	18
82	In vitro and in vivo evaluation of the duck's feet collagen sponge for hemostatic applications. *Journal of Biomaterials Applications*, **2017**, 32, 484-491	2.9	17
81	NIR fluorescence for monitoring in vivo scaffold degradation along with stem cell tracking in bone tissue engineering. *Biomaterials*, **2020**, 258, 120267	15.6	17
80	Preventive effects of tonsil-derived mesenchymal stem cells on osteoradionecrosis in a rat model. *Head and Neck*, **2018**, 40, 526-535	4.2	17
79	An Endogenous Anti-aging Factor, Sonic Hedgehog, Suppresses Endometrial Stem Cell Aging through SERPINB2. *Molecular Therapy*, **2019**, 27, 1286-1298	11.7	16
78	Wound healing with nonthermal microplasma jets generated in arrays of hourglass microcavity devices. *Journal Physics D: Applied Physics*, **2014**, 47, 435402	3	16
77	Facile and highly efficient approach for the fabrication of multifunctional silk nanofibers containing hydroxyapatite and silver nanoparticles. *Journal of Biomedical Materials Research - Part A*, **2014**, 102, 3459-69	5.4	16
76	Cosmetic rhinoseptoplasty in acute nasal bone fracture. *Otolaryngology - Head and Neck Surgery*, **2013**, 149, 212-8	5.5	16
75	Revision rhinoplasty of Asian noses: analysis and treatment. *JAMA Otolaryngology*, **2009**, 135, 146-55		16

74	Usefulness of ultrasonography in the treatment of nasal bone fractures. *Journal of Trauma*, **2009**, 67, 1323-6		16
73	A prospective cohort study of the silk fibroin patch in chronic tympanic membrane perforation. *Laryngoscope*, **2016**, 126, 2798-2803	3.6	16
72	Microwave-Assisted Synthesis of Biocompatible Silk Fibroin-Based Carbon Quantum Dots. *Particle and Particle Systems Characterization*, **2018**, 35, 1700300	3.1	16
71	A comparative mechanical and biocompatibility study of poly(ε-caprolactone), hybrid poly(ε-caprolactone)/silk, and silk nanofibers by colloidal electrospinning technique for tissue engineering. *Journal of Bioactive and Compatible Polymers*, **2014**, 29, 500-514	2	15
70	In vivo bone regeneration evaluation of duck's feet collagen/PLGA scaffolds in rat calvarial defect. *Macromolecular Research*, **2017**, 25, 994-999	1.9	15
69	Clinical factor for successful nonsurgical treatment of pediatric peritonsillar abscess. *Laryngoscope*, **2015**, 125, 2608-11	3.6	15
68	Subjective visual vertical during eccentric rotation in patients with benign paroxysmal positional vertigo. *Otology and Neurotology*, **2008**, 29, 1167-70	2.6	15
67	Rapidly photocurable silk fibroin sealant for clinical applications. *NPG Asia Materials*, **2020**, 12,	10.3	15
66	Reinforced-hydrogel encapsulated hMSCs towards brain injury treatment by trans-septal approach. *Biomaterials*, **2021**, 266, 120413	15.6	15
65	Microplasma Jet Arrays as a Therapeutic Choice for Fungal Keratitis. *Scientific Reports*, **2018**, 8, 2422	4.9	14
64	Fabrication of microporous three-dimensional scaffolds from silk fibroin for tissue engineering. *Macromolecular Research*, **2014**, 22, 592-599	1.9	14
63	An omentum-cultured 3D-printed artificial trachea: in vivo bioreactor. *Artificial Cells, Nanomedicine and Biotechnology*, **2018**, 46, S1131-S1140	6.1	14
62	Fabrication of a Urea Biosensor for Real-Time Dynamic Fluid Measurement. *Sensors*, **2018**, 18,	3.8	14
61	Development of an omentum-cultured oesophageal scaffold reinforced by a 3D-printed ring: feasibility of an in vivo bioreactor. *Artificial Cells, Nanomedicine and Biotechnology*, **2018**, 46, 885-895	6.1	13
60	Canal reconstruction and mastoid obliteration using floating cartilages and musculoperiosteal flaps. *Laryngoscope*, **2017**, 127, 1153-1160	3.6	13
59	Subjective visual vertical during eccentric rotation in patients with vestibular neuritis. *European Archives of Oto-Rhino-Laryngology*, **2010**, 267, 357-61	3.5	13
58	A 4-Axis Technique for Three-Dimensional Printing of an Artificial Trachea. *Tissue Engineering and Regenerative Medicine*, **2018**, 15, 415-425	4.5	11
57	Endoscopic reduction of medial orbital wall fractures using the rolled silastic sheet technique. *Journal of Trauma*, **2009**, 66, 1421-4; discussion 1424		11

56	Application of a Collagen Patch Derived from Duck Feet in Acute Tympanic Membrane Perforation. *Tissue Engineering and Regenerative Medicine*, **2017**, 14, 233-241	4.5	10
55	Effects of silk fibroin in murine dry eye. *Scientific Reports*, **2017**, 7, 44364	4.9	10
54	3D bioprinted silk fibroin hydrogels for tissue engineering. *Nature Protocols*, **2021**, 16, 5484-5532	18.8	10
53	Fabrication and characterization of the porous duck's feet collagen sponge for wound healing applications. *Journal of Biomaterials Science, Polymer Edition*, **2018**, 29, 960-971	3.5	10
52	SERPINB2 is a novel indicator of stem cell toxicity. *Cell Death and Disease*, **2018**, 9, 724	9.8	10
51	Comparison of sequential same-day middle ear surgeries: bilateral mastoidectomy, unilateral mastoidectomy with contralateral tympanoplasty, and bilateral tympanoplasty. *European Archives of Oto-Rhino-Laryngology*, **2015**, 272, 1395-402	3.5	9
50	Fabrication of transparent silk fibroin film for the regeneration of corneal endothelial cells; preliminary study. *Macromolecular Research*, **2014**, 22, 297-303	1.9	9
49	Aqua splint suture technique in isolated zygomatic arch fractures. *European Archives of Oto-Rhino-Laryngology*, **2014**, 271, 707-11	3.5	9
48	Analysis of hearing improvement in patients with severe to profound sudden sensorineural hearing loss according to the level of pure tone hearing threshold. *European Archives of Oto-Rhino-Laryngology*, **2012**, 269, 2057-60	3.5	9
47	Can cochlear function be preserved after a modified translabyrinthine approach to eradicate a huge cholesteatoma extending to the petrous apex?. *European Archives of Oto-Rhino-Laryngology*, **2009**, 266, 1191-7	3.5	9
46	Facile Pore Structure Control of Poly(ε-caprolactone) Nano-Fibrous Scaffold by Salt-Dispenser Aided Electrospinning. *Journal of Nanoengineering and Nanomanufacturing*, **2013**, 3, 269-275		9
45	Skin regeneration using duck's feet derived collagen and poly(vinyl alcohol) scaffold. *Macromolecular Research*, **2016**, 24, 359-365	1.9	9
44	Recirculating peritoneal dialysis system using urease-fixed silk fibroin membrane filter with spherical carbonaceous adsorbent. *Materials Science and Engineering C*, **2019**, 97, 55-66	8.3	9
43	Fabrication and characterization of three-dimensional silk fibroin scaffolds using a mixture of salt/sucrose. *Macromolecular Research*, **2014**, 22, 1268-1274	1.9	8
42	Nature-derived epigallocatechin gallate/duck's feet collagen/hydroxyapatite composite sponges for enhanced bone tissue regeneration. *Journal of Biomaterials Science, Polymer Edition*, **2018**, 29, 984-996	3.5	8
41	Novel transparent collagen film patch derived from duck's feet for tympanic membrane perforation. *Journal of Biomaterials Science, Polymer Edition*, **2018**, 29, 997-1010	3.5	6
40	Recent advances in tissue-engineered corneal regeneration. *Inflammation and Regeneration*, **2014**, 34, 004-014	10.9	6
39	Open reduction of nasal bone fractures through an intercartilaginous incision. *Acta Oto-Laryngologica*, **2013**, 133, 77-81	1.6	6

38	Silk Fibroin Bioinks for Digital Light Processing (DLP) 3D Bioprinting. *Advances in Experimental Medicine and Biology*, **2020**, 1249, 53-66	3.6	6
37	Psychological stress as a measure for treatment response prediction in idiopathic sudden hearing loss. *Journal of Psychosomatic Research*, **2017**, 102, 41-46	4.1	5
36	Cytocompatibility of Modified Silk Fibroin with Glycidyl Methacrylate for Tissue Engineering and Biomedical Applications. *Biomolecules*, **2020**, 11,	5.9	5
35	Characterization and Effect of Inflammatory Reaction of Duck-Feet Derived Collagen/Poly(lactic-co-glycolide)(PLGA) Hybrid Scaffold. *Porrime*, **2015**, 39, 837	1	5
34	Osteogenic Effect of Hybrid Scaffolds Composed of Duck Feet Collagen and PLGA. *Porrime*, **2015**, 39, 846	1	5
33	Transverse fracture of the stapes anterior crus caused by the blast pressure from a land mine explosion. *Korean Journal of Audiology*, **2014**, 18, 137-40		5
32	A digital light processing 3D printed magnetic bioreactor system using silk magnetic bioink. *Biofabrication*, **2021**, 13,	10.5	5
31	Effect of low frequency on speech performance with bimodal hearing in bilateral severe hearing loss. *Laryngoscope*, **2016**, 126, 2817-2822	3.6	4
30	Histologic changes in transplanted expanded polytetrafluoroethylene in an animal model. *Laryngoscope*, **2012**, 122, 17-22	3.6	4
29	A balloon dilatation technique for the treatment of intramaxillary lesions using a Foley catheter in chronic maxillary sinusitis. *American Journal of Otolaryngology - Head and Neck Medicine and Surgery* , **2011**, 32, 304-7	2.8	4
28	Reduction of inferior orbital wall fractures using a Foley catheter and an Endoloop. *Journal of Trauma*, **2011**, 70, E38-41		4
27	Drug Induced Sleep Endoscopy for Poor-Responder to Uvulopalatopharyngoplasty in Patient with Obstructive Sleep Apnea Patients. *Korean Journal of Otorhinolaryngology-Head and Neck Surgery*, **2014**, 57, 96	0.2	4
26	Effect of Duck's Feet Derived Collagen Sponge on Skin Regeneration: In Vitro Study. *Porrime*, **2015**, 39, 493-498	1	4
25	New fabrication method of silk fibroin plate and screw based on a centrifugal casting technique. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, 2221-2229	4.4	4
24	Pressure and temperature dependences of the acoustic behaviors of biocompatible silk studied by using Brillouin spectroscopy. *Journal of the Korean Physical Society*, **2016**, 69, 213-219	0.6	3
23	Predictors of Adherence with Positive Airway Pressure Treatment in Patients with Obstructive Sleep Apnea in Korean. *Journal of Rhinology*, **2015**, 22, 89	0	3
22	Congenital cholesteatoma localized to the tip of the mastoid bone: a case report and possible etiology. *Korean Journal of Audiology*, **2014**, 18, 85-8		3
21	Comparative study of morphological and histological changes between differently structured expanded polytetrafluoroethylene implants in an animal model. *American Journal of Rhinology and Allergy*, **2013**, 27, 162-7	2.4	3

20	Analysis of facial deformities in korean leprosy. *Clinical and Experimental Otorhinolaryngology*, **2013**, 6, 78-81	3.4	3
19	Inflammatory Responses to Hydroxyapatite/Poly(lactic-co-glycolic acid) Scaffolds with Variation of Compositions. *Porrime*, **2014**, 38, 156-163	1	2
18	3D Printing and NIR Fluorescence Imaging Techniques for the Fabrication of Implants. *Materials*, **2020**, 13,	3.5	2
17	Silk Fibroin-Based Biomaterials for Hemostatic Applications. *Biomolecules*, **2022**, 12, 660	5.9	2
16	Bilateral promontory fistula due to noncholesteatomatous chronic otitis media. *European Archives of Oto-Rhino-Laryngology*, **2009**, 266, 933-6	3.5	1
15	The Trend of Biomaterials in Facial Plastic and Reconstructive Surgery. *Korean Journal of Otorhinolaryngology-Head and Neck Surgery*, **2014**, 57, 651	0.2	1
14	Analysis of Long-Term Complication on Patients with Obstructive Sleep Apnea Who Treated Mandibular Advancement Device. *Korean Journal of Otorhinolaryngology-Head and Neck Surgery*, **2017**, 60, 449-453	0.2	1
13	Fabrication and Characterization of Silk/PVA Hydrogels by Sonication and Freezing-Thawing Technique. *Porrime*, **2013**, 37, 717-721	1	1
12	Histological study of expanded polytetrafluoroethylene (Gore-Tex) implanted in the human nose. *Rhinology*, **2008**, 46, 317-23	7	1
11	Treatment of Fungal-Infected Diabetic Wounds with Low Temperature Plasma.. *Biomedicines*, **2021**, 10,	4.8	1
10	Biocompatible fluorescent silk fibroin bioink for digital light processing 3D printing. *International Journal of Biological Macromolecules*, **2022**, 213, 317-327	7.9	1
9	The Successful Reduction of an Anterior Maxillary Fracture with Foley Catheter and Real-Time Ultrasonography. *Korean Journal of Otorhinolaryngology-Head and Neck Surgery*, **2014**, 57, 340	0.2	0
8	Non-invasive in vivo monitoring of transplanted stem cells in 3D-bioprinted constructs using near-infrared fluorescent imaging. *Bioengineering and Translational Medicine*, **2021**, 6, e10216	14.8	0
7	Fabrication and characterization of a myrrh hydrocolloid dressing for dermal wound healing. *Colloids and Interface Science Communications*, **2022**, 48, 100617	5.4	0
6	Effect of crystallinity on acoustic behaviors of biocompatible silk studied by Brillouin spectroscopy. *Journal of the Korean Physical Society*, **2017**, 71, 144-149	0.6	
5	In Reply: Treatment for Acute Tympanic Membrane Perforation. *Clinical and Experimental Otorhinolaryngology*, **2016**, 9, 386	3.4	
4	Two Cases of Meatoplasty and Otoplasty Simultaneously in Patients with Auricular Deformities and External Auricular Canal Stenosis. *Korean Journal of Otolaryngology - Head and Neck Surgery*, **2009**, 52, 386		
3	The Influence of the Sick House Syndrome on Nasal Mucosa and Nasal Symptoms. *Korean Journal of Otorhinolaryngology-Head and Neck Surgery*, **2011**, 54, 265	0.2	

2 Revision Rhinoplasty of Asian Noses **2013**, 1001-1036

1 Comparison between Poly(lactic-co-glycolic acid) Films Contained Natural Polymers on Adhesion and Proliferation of Schwann Cells. *Porrime*, **2014**, 38, 164-170 1