

Juha Song

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67
papers

2,547
citations

27
h-index

49
g-index

68
ext. papers

2,947
ext. citations

6.5
avg, IF

5.22
L-index

#	Paper	IF	Citations
67	Materials design principles of ancient fish armour. <i>Nature Materials</i> , 2008 , 7, 748-56	27	321
66	Nanofiber Generation of GelatinHydroxyapatite Biomimetics for Guided Tissue Regeneration. <i>Advanced Functional Materials</i> , 2005 , 15, 1988-1994	15.6	305
65	Production of electrospun gelatin nanofiber by water-based co-solvent approach. <i>Journal of Materials Science: Materials in Medicine</i> , 2008 , 19, 95-102	4.5	141
64	Bioactive glass nanofiber-collagen nanocomposite as a novel bone regeneration matrix. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 79, 698-705	5.4	107
63	3D printing of hydrogel composite systems: Recent advances in technology for tissue engineering. <i>International Journal of Bioprinting</i> , 2018 , 4, 126	6.2	100
62	Effect of Polystyrene Addition on Freeze Casting of Ceramic/Camphene Slurry for Ultra-High Porosity Ceramics with Aligned Pore Channels. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 3646-3653	3.8	97
61	Freezing Dilute Ceramic/Camphene Slurry for Ultra-High Porosity Ceramics with Completely Interconnected Pore Networks. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 3089-3093	3.8	85
60	Electrospun fibrous web of collagen-apatite precipitated nanocomposite for bone regeneration. <i>Journal of Materials Science: Materials in Medicine</i> , 2008 , 19, 2925-32	4.5	78
59	Improved compressive strength of reticulated porous zirconia using carbon coated polymeric sponge as novel template. <i>Materials Letters</i> , 2006 , 60, 2507-2510	3.3	70
58	Threat-protection mechanics of an armored fish. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2011 , 4, 699-712	4.1	69
57	Collagen-apatite nanocomposite membranes for guided bone regeneration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007 , 83, 248-57	3.5	66
56	Quantitative microstructural studies of the armor of the marine threespine stickleback (<i>Gasterosteus aculeatus</i>). <i>Journal of Structural Biology</i> , 2010 , 171, 318-31	3.4	58
55	Strong and Biostable Hyaluronic Acid-Calcium Phosphate Nanocomposite Hydrogel via in Situ Precipitation Process. <i>Biomacromolecules</i> , 2016 , 17, 841-51	6.9	50
54	Bioactive and degradable hybridized nanofibers of gelatin-siloxane for bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 84, 875-84	5.4	49
53	Porous Hydroxyapatite Scaffolds Coated With Bioactive ApatiteWollastonite GlassCeramics. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 2703-2708	3.8	48
52	Novel strategy for mechanically tunable and bioactive metal implants. <i>Biomaterials</i> , 2015 , 37, 49-61	15.6	46
51	Fabrication of a Porous Bioactive GlassCeramic Using Room-Temperature Freeze Casting. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 2649-2653	3.8	46

50	Anisotropic design of a multilayered biological exoskeleton. <i>Journal of Materials Research</i> , 2009 , 24, 3471-3494	11.5	44
49	Direct quantification of the mechanical anisotropy and fracture of an individual exoskeleton layer via uniaxial compression of micropillars. <i>Nano Letters</i> , 2011 , 11, 3868-74	11.5	43
48	Biomimetic porous Mg with tunable mechanical properties and biodegradation rates for bone regeneration. <i>Acta Biomaterialia</i> , 2019 , 84, 453-467	10.8	38
47	Antibacterial and bioactive properties of stabilized silver on titanium with a nanostructured surface for dental applications. <i>Applied Surface Science</i> , 2018 , 451, 232-240	6.7	32
46	MgF ₂ -coated porous magnesium/alumina scaffolds with improved strength, corrosion resistance, and biological performance for biomedical applications. <i>Materials Science and Engineering C</i> , 2016 , 62, 634-42	8.3	31
45	Actuation and locomotion driven by moisture in paper made with natural pollen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 8711-8718	11.5	30
44	Hydroxyapatite (HA)/poly-L-lactic acid (PLLA) dual coating on magnesium alloy under deformation for biomedical applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2016 , 27, 34	4.5	30
43	Transformation of hard pollen into soft matter. <i>Nature Communications</i> , 2020 , 11, 1449	17.4	28
42	The Production of Porous Hydroxyapatite Scaffolds with Graded Porosity by Sequential Freeze-Casting. <i>Materials</i> , 2017 , 10,	3.5	27
41	Signaling responses of osteoblast cells to hydroxyapatite: the activation of ERK and SOX9. <i>Journal of Bone and Mineral Metabolism</i> , 2008 , 26, 138-42	2.9	27
40	Polyurethane-silica hybrid foams from a one-step foaming reaction, coupled with a sol-gel process, for enhanced wound healing. <i>Materials Science and Engineering C</i> , 2017 , 79, 866-874	8.3	25
39	Multi-scale porous Ti6Al4V scaffolds with enhanced strength and biocompatibility formed via dynamic freeze-casting coupled with micro-arc oxidation. <i>Materials Letters</i> , 2016 , 185, 21-24	3.3	24
38	Poly(ether imide)-silica hybrid coatings for tunable corrosion behavior and improved biocompatibility of magnesium implants. <i>Biomedical Materials (Bristol)</i> , 2016 , 11, 035003	3.5	23
37	The effects of morphological irregularity on the mechanical behavior of interdigitated biological sutures under tension. <i>Journal of Biomechanics</i> , 2017 , 58, 71-78	2.9	22
36	Multiscale porous titanium surfaces via a two-step etching process for improved mechanical and biological performance. <i>Biomedical Materials (Bristol)</i> , 2017 , 12, 025008	3.5	22
35	Silicone 3D Printing: Process Optimization, Product Biocompatibility, and Reliability of Silicone Meniscus Implants. <i>3D Printing and Additive Manufacturing</i> , 2019 , 6, 319-332	4	21
34	Improved cell viability for large-scale biofabrication with photo-crosslinkable hydrogel systems through a dual-photoinitiator approach. <i>Biomaterials Science</i> , 2019 , 8, 450-461	7.4	19
33	Mechanical response of common millet (<i>Panicum miliaceum</i>) seeds under quasi-static compression: Experiments and modeling. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 73, 102-113	4.1	18

32	A crack-free anti-corrosive coating strategy for magnesium implants under deformation. <i>Corrosion Science</i> , 2018 , 132, 116-124	6.8	18
31	Freeform 3D printing of soft matters: recent advances in technology for biomedical engineering. <i>Biomedical Engineering Letters</i> , 2020 , 10, 453-479	3.6	18
30	3D Direct Printing of Silicone Meniscus Implant Using a Novel Heat-Cured Extrusion-Based Printer. <i>Polymers</i> , 2020 , 12,	4.5	17
29	Acceleration of the healing process of full-thickness wounds using hydrophilic chitosan-silica hybrid sponge in a porcine model. <i>Journal of Biomaterials Applications</i> , 2018 , 32, 1011-1023	2.9	17
28	Ta ion implanted nanoridge-platform for enhanced vascular responses. <i>Biomaterials</i> , 2019 , 223, 119461	15.6	16
27	Large-scale nanopatterning of metal surfaces by target-ion induced plasma sputtering (TIPS). <i>RSC Advances</i> , 2016 , 6, 23702-23708	3.7	16
26	CO ₂ /N ₂ Separation Properties of Polyimide-Based Mixed-Matrix Membranes Comprising UiO-66 with Various Functionalities. <i>Membranes</i> , 2020 , 10,	3.8	16
25	Antimicrobial Microneedle Patch for Treating Deep Cutaneous Fungal Infection. <i>Advanced Therapeutics</i> , 2019 , 2, 1900064	4.9	14
24	High-performance porous carbon-zeolite mixed-matrix membranes for CO ₂ /N ₂ separation. <i>Journal of Membrane Science</i> , 2021 , 622, 119031	9.6	14
23	Long-lasting and bioactive hyaluronic acid-hydroxyapatite composite hydrogels for injectable dermal fillers: Physical properties and in vivo durability. <i>Journal of Biomaterials Applications</i> , 2016 , 31, 464-74	2.9	14
22	Effect of HF/HNO ₃ -treatment on the porous structure and cell penetrability of titanium (Ti) scaffold. <i>Materials and Design</i> , 2018 , 145, 65-73	8.1	13
21	3D Freeform Printing of Nanocomposite Hydrogels through Precipitation in Reactive Viscous Fluid. <i>International Journal of Bioprinting</i> , 2020 , 6, 258	6.2	13
20	The accelerating effect of chitosan-silica hybrid dressing materials on the early phase of wound healing. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017 , 105, 1828-1839	3.5	12
19	Plant seed-inspired cell protection, dormancy, and growth for large-scale biofabrication. <i>Biofabrication</i> , 2019 , 11, 025008	10.5	12
18	3D Printed Silicone Meniscus Implants: Influence of the 3D Printing Process on Properties of Silicone Implants. <i>Polymers</i> , 2020 , 12,	4.5	11
17	Fabrication and Characterization of Dual-Channeled Zirconia Ceramic Scaffold. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 2021-2026	3.8	10
16	Bioinspired cell-in-shell systems in biomedical engineering and beyond: Comparative overview and prospects. <i>Biomaterials</i> , 2021 , 266, 120473	15.6	10
15	Extremely Versatile Deformability beyond Materiality: A New Material Platform through Simple Cutting for Rugged Batteries. <i>Advanced Engineering Materials</i> , 2019 , 21, 1900206	3.5	8

14	Incorporation of Calcium Sulfate Dihydrate into Hydroxyapatite Microspheres To Improve the Release of Bone Morphogenetic Protein-2 and Accelerate Bone Regeneration. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 846-856	5.5	8
13	Development of a new additive manufacturing platform for direct freeform 3D printing of intrinsically curved flexible membranes. <i>Additive Manufacturing</i> , 2020 , 36, 101563	6.1	7
12	Chitosan-Based Dressing Materials for Problematic Wound Management. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1077, 527-537	3.6	7
11	Fabrication of Mechanically Tunable and Bioactive Metal Scaffolds for Biomedical Applications. <i>Journal of Visualized Experiments</i> , 2015 , e53279	1.6	6
10	Recyclable and biocompatible microgel-based supporting system for positive 3D freeform printing of silicone rubber. <i>Biomedical Engineering Letters</i> , 2020 , 10, 517-532	3.6	6
9	Morphometric structural diversity of a natural armor assembly investigated by 2D continuum strain analysis. <i>Journal of Structural Biology</i> , 2015 , 192, 487-499	3.4	5
8	Carbon Molecular Sieve Membranes Comprising Graphene Oxides and Porous Carbon for CO ₂ /N ₂ Separation. <i>Membranes</i> , 2021 , 11,	3.8	4
7	Functionally assembled metal platform as lego-like module system for enhanced mechanical tunability and biomolecules delivery. <i>Materials and Design</i> , 2021 , 207, 109840	8.1	4
6	Engineering Natural Pollen Grains as Multifunctional 3D Printing Materials. <i>Advanced Functional Materials</i> , 2106276	15.6	3
5	3D-printed monolithic porous adsorbents from a solution-processible, hypercrosslinkable, functionalizable polymer. <i>Chemical Engineering Journal</i> , 2022 , 427, 130883	14.7	3
4	Nanotechnology Facilitated Cultured Neuronal Network and Its Applications. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
3	Customizable design of multiple-biomolecule delivery platform for enhanced osteogenic responses via tailored assembly system <i>Bio-Design and Manufacturing</i> , 1	4.7	1
2	Engineering Natural Pollen Grains as Multifunctional 3D Printing Materials (Adv. Funct. Mater. 49/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170360	15.6	1
1	Unraveling the distinct germination processes of sporopollenin-based pollen grains and spores through morphological analyses upon natural nano-architectonics process. <i>Applied Materials Today</i> , 2022 , 27, 101471	6.6	1