

# Juha Song

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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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	3D-printed monolithic porous adsorbents from a solution-processible, hypercrosslinkable, functionalizable polymer. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 130883	14.7	3
66	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> , <b>2022</b> , 27, 101471	6.6	1
65	High-performance porous carbon-zeolite mixed-matrix membranes for CO <sub>2</sub> /N <sub>2</sub> separation. <i>Journal of Membrane Science</i> , <b>2021</b> , 622, 119031	9.6	14
64	Carbon Molecular Sieve Membranes Comprising Graphene Oxides and Porous Carbon for CO/N Separation. <i>Membranes</i> , <b>2021</b> , 11,	3.8	4
63	Nanotechnology Facilitated Cultured Neuronal Network and Its Applications. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	2
62	Bioinspired cell-in-shell systems in biomedical engineering and beyond: Comparative overview and prospects. <i>Biomaterials</i> , <b>2021</b> , 266, 120473	15.6	10
61	Functionally assembled metal platform as lego-like module system for enhanced mechanical tunability and biomolecules delivery. <i>Materials and Design</i> , <b>2021</b> , 207, 109840	8.1	4
60	Engineering Natural Pollen Grains as Multifunctional 3D Printing Materials (Adv. Funct. Mater. 49/2021). <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2170360	15.6	1
59	Development of a new additive manufacturing platform for direct freeform 3D printing of intrinsically curved flexible membranes. <i>Additive Manufacturing</i> , <b>2020</b> , 36, 101563	6.1	7
58	3D Direct Printing of Silicone Meniscus Implant Using a Novel Heat-Cured Extrusion-Based Printer. <i>Polymers</i> , <b>2020</b> , 12,	4.5	17
57	Transformation of hard pollen into soft matter. <i>Nature Communications</i> , <b>2020</b> , 11, 1449	17.4	28
56	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> , <b>2020</b> , 117, 8711-8718	11.5	30
55	3D Freeform Printing of Nanocomposite Hydrogels through Precipitation in Reactive Viscous Fluid. <i>International Journal of Bioprinting</i> , <b>2020</b> , 6, 258	6.2	13
54	Freeform 3D printing of soft matters: recent advances in technology for biomedical engineering. <i>Biomedical Engineering Letters</i> , <b>2020</b> , 10, 453-479	3.6	18
53	Recyclable and biocompatible microgel-based supporting system for positive 3D freeform printing of silicone rubber. <i>Biomedical Engineering Letters</i> , <b>2020</b> , 10, 517-532	3.6	6
52	CO/N Separation Properties of Polyimide-Based Mixed-Matrix Membranes Comprising UiO-66 with Various Functionalities. <i>Membranes</i> , <b>2020</b> , 10,	3.8	16
51	3D Printed Silicone Meniscus Implants: Influence of the 3D Printing Process on Properties of Silicone Implants. <i>Polymers</i> , <b>2020</b> , 12,	4.5	11

50	Ta ion implanted nanoridge-platform for enhanced vascular responses. <i>Biomaterials</i> , <b>2019</b> , 223, 119461	15.6	16
49	Plant seed-inspired cell protection, dormancy, and growth for large-scale biofabrication. <i>Biofabrication</i> , <b>2019</b> , 11, 025008	10.5	12
48	Extremely Versatile Deformability beyond Materiality: A New Material Platform through Simple Cutting for Rugged Batteries. <i>Advanced Engineering Materials</i> , <b>2019</b> , 21, 1900206	3.5	8
47	Antimicrobial Microneedle Patch for Treating Deep Cutaneous Fungal Infection. <i>Advanced Therapeutics</i> , <b>2019</b> , 2, 1900064	4.9	14
46	Improved cell viability for large-scale biofabrication with photo-crosslinkable hydrogel systems through a dual-photoinitiator approach. <i>Biomaterials Science</i> , <b>2019</b> , 8, 450-461	7.4	19
45	Silicone 3D Printing: Process Optimization, Product Biocompatibility, and Reliability of Silicone Meniscus Implants. <i>3D Printing and Additive Manufacturing</i> , <b>2019</b> , 6, 319-332	4	21
44	Biomimetic porous Mg with tunable mechanical properties and biodegradation rates for bone regeneration. <i>Acta Biomaterialia</i> , <b>2019</b> , 84, 453-467	10.8	38
43	Effect of HF/HNO <sub>3</sub> -treatment on the porous structure and cell penetrability of titanium (Ti) scaffold. <i>Materials and Design</i> , <b>2018</b> , 145, 65-73	8.1	13
42	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> , <b>2018</b> , 4, 846-856	5.5	8
41	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> , <b>2018</b> , 32, 1011-1023	2.9	17
40	A crack-free anti-corrosive coating strategy for magnesium implants under deformation. <i>Corrosion Science</i> , <b>2018</b> , 132, 116-124	6.8	18
39	Antibacterial and bioactive properties of stabilized silver on titanium with a nanostructured surface for dental applications. <i>Applied Surface Science</i> , <b>2018</b> , 451, 232-240	6.7	32
38	3D printing of hydrogel composite systems: Recent advances in technology for tissue engineering. <i>International Journal of Bioprinting</i> , <b>2018</b> , 4, 126	6.2	100
37	Chitosan-Based Dressing Materials for Problematic Wound Management. <i>Advances in Experimental Medicine and Biology</i> , <b>2018</b> , 1077, 527-537	3.6	7
36	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> , <b>2017</b> , 105, 1828-1839	3.5	12
35	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> , <b>2017</b> , 73, 102-113	4.1	18
34	The effects of morphological irregularity on the mechanical behavior of interdigitated biological sutures under tension. <i>Journal of Biomechanics</i> , <b>2017</b> , 58, 71-78	2.9	22
33	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> , <b>2017</b> , 79, 866-874	8.3	25

32	Multiscale porous titanium surfaces via a two-step etching process for improved mechanical and biological performance. <i>Biomedical Materials (Bristol)</i> , <b>2017</b> , 12, 025008	3.5	22
31	The Production of Porous Hydroxyapatite Scaffolds with Graded Porosity by Sequential Freeze-Casting. <i>Materials</i> , <b>2017</b> , 10,	3.5	27
30	Multi-scale porous Ti6Al4V scaffolds with enhanced strength and biocompatibility formed via dynamic freeze-casting coupled with micro-arc oxidation. <i>Materials Letters</i> , <b>2016</b> , 185, 21-24	3.3	24
29	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> , <b>2016</b> , 27, 34	4.5	30
28	Strong and Biostable Hyaluronic Acid-Calcium Phosphate Nanocomposite Hydrogel via in Situ Precipitation Process. <i>Biomacromolecules</i> , <b>2016</b> , 17, 841-51	6.9	50
27	MgF2-coated porous magnesium/alumina scaffolds with improved strength, corrosion resistance, and biological performance for biomedical applications. <i>Materials Science and Engineering C</i> , <b>2016</b> , 62, 634-42	8.3	31
26	Large-scale nanopatterning of metal surfaces by target-ion induced plasma sputtering (TIPS). <i>RSC Advances</i> , <b>2016</b> , 6, 23702-23708	3.7	16
25	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> , <b>2016</b> , 31, 464-74	2.9	14
24	Poly(ether imide)-silica hybrid coatings for tunable corrosion behavior and improved biocompatibility of magnesium implants. <i>Biomedical Materials (Bristol)</i> , <b>2016</b> , 11, 035003	3.5	23
23	Morphometric structural diversity of a natural armor assembly investigated by 2D continuum strain analysis. <i>Journal of Structural Biology</i> , <b>2015</b> , 192, 487-499	3.4	5
22	Novel strategy for mechanically tunable and bioactive metal implants. <i>Biomaterials</i> , <b>2015</b> , 37, 49-61	15.6	46
21	Fabrication of Mechanically Tunable and Bioactive Metal Scaffolds for Biomedical Applications. <i>Journal of Visualized Experiments</i> , <b>2015</b> , e53279	1.6	6
20	Direct quantification of the mechanical anisotropy and fracture of an individual exoskeleton layer via uniaxial compression of micropillars. <i>Nano Letters</i> , <b>2011</b> , 11, 3868-74	11.5	43
19	Threat-protection mechanics of an armored fish. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2011</b> , 4, 699-712	4.1	69
18	Quantitative microstructural studies of the armor of the marine threespine stickleback ( <i>Gasterosteus aculeatus</i> ). <i>Journal of Structural Biology</i> , <b>2010</b> , 171, 318-31	3.4	58
17	Anisotropic design of a multilayered biological exoskeleton. <i>Journal of Materials Research</i> , <b>2009</b> , 24, 3477-3494	3.4	44
16	Materials design principles of ancient fish armour. <i>Nature Materials</i> , <b>2008</b> , 7, 748-56	27	321
15	Production of electrospun gelatin nanofiber by water-based co-solvent approach. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2008</b> , 19, 95-102	4.5	141

14	Electrospun fibrous web of collagen-apatite precipitated nanocomposite for bone regeneration. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2008</b> , 19, 2925-32	4.5	78
13	Signaling responses of osteoblast cells to hydroxyapatite: the activation of ERK and SOX9. <i>Journal of Bone and Mineral Metabolism</i> , <b>2008</b> , 26, 138-42	2.9	27
12	Bioactive and degradable hybridized nanofibers of gelatin-siloxane for bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2008</b> , 84, 875-84	5.4	49
11	Collagen-apatite nanocomposite membranes for guided bone regeneration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2007</b> , 83, 248-57	3.5	66
10	Porous Hydroxyapatite Scaffolds Coated With Bioactive Apatite/Wollastonite Glass Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 90, 2703-2708	3.8	48
9	Improved compressive strength of reticulated porous zirconia using carbon coated polymeric sponge as novel template. <i>Materials Letters</i> , <b>2006</b> , 60, 2507-2510	3.3	70
8	Bioactive glass nanofiber-collagen nanocomposite as a novel bone regeneration matrix. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2006</b> , 79, 698-705	5.4	107
7	Fabrication and Characterization of Dual-Channeled Zirconia Ceramic Scaffold. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 2021-2026	3.8	10
6	Fabrication of a Porous Bioactive Glass Ceramic Using Room-Temperature Freeze Casting. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 2649-2653	3.8	46
5	Freezing Dilute Ceramic/Camphene Slurry for Ultra-High Porosity Ceramics with Completely Interconnected Pore Networks. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 3089-3093	3.8	85
4	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> , <b>2006</b> , 89, 3646-3653	3.8	97
3	Nanofiber Generation of Gelatin/Hydroxyapatite Biomimetics for Guided Tissue Regeneration. <i>Advanced Functional Materials</i> , <b>2005</b> , 15, 1988-1994	15.6	305
2	Engineering Natural Pollen Grains as Multifunctional 3D Printing Materials. <i>Advanced Functional Materials</i> , 2106276	15.6	3
1	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