

# Su Ryon Shin

## List of Publications by Year in Descending Order

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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.

137  
papers

10,978  
citations

51  
h-index

104  
g-index

144  
ext. papers

12,916  
ext. citations

11  
avg, IF

6.3  
L-index

#	Paper	IF	Citations
137	Selection of natural biomaterials for micro-tissue and organ-on-chip models.. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2022</b> ,	5.4	2
136	A review on 3D printing functional brain model.. <i>Biomicrofluidics</i> , <b>2022</b> , 16, 011501	3.2	2
135	Enzyme-mediated Alleviation of Peroxide Toxicity in Self-oxygenating Biomaterials.. <i>Advanced Healthcare Materials</i> , <b>2022</b> , e2102697	10.1	0
134	Mimicking Native Heart Tissue Physiology and Pathology in Silk Fibroin Constructs Through Perfusion-based Dynamic Mechanical Stimulation Microdevice.. <i>Advanced Healthcare Materials</i> , <b>2021</b> , e2101678	10.1	1
133	Characterization of Leptin Receptor Stromal Cells in Lymph Node.. <i>Frontiers in Immunology</i> , <b>2021</b> , 12, 730438	8.4	
132	Emerging Biopolymer-Based Bioadhesives.. <i>Macromolecular Bioscience</i> , <b>2021</b> , e2100340	5.5	5
131	Effects of electrically conductive nano-biomaterials on regulating cardiomyocyte behavior for cardiac repair and regeneration. <i>Acta Biomaterialia</i> , <b>2021</b> , 139, 141-141	10.8	3
130	Photo-Cross-Linkable Human Albumin Colloidal Gels Facilitate In Vivo Vascular Integration for Regenerative Medicine.. <i>ACS Omega</i> , <b>2021</b> , 6, 33511-33522	3.9	1
129	Tethering Cells via Enzymatic Oxidative Crosslinking Enables Mechanotransduction in Non-Cell-Adhesive Materials (Adv. Mater. 42/2021). <i>Advanced Materials</i> , <b>2021</b> , 33, 2170333	24	
128	Nanoengineered Shear-Thinning Hydrogel Barrier for Preventing Postoperative Abdominal Adhesions. <i>Nano-Micro Letters</i> , <b>2021</b> , 13, 212	19.5	4
127	Suturable elastomeric tubular grafts with patterned porosity for rapid vascularization of 3D constructs. <i>Biofabrication</i> , <b>2021</b> ,	10.5	4
126	Organ-on-a-Chip: A Heart-Breast Cancer-on-a-Chip Platform for Disease Modeling and Monitoring of Cardiotoxicity Induced by Cancer Chemotherapy (Small 15/2021). <i>Small</i> , <b>2021</b> , 17, 2170070	11	
125	Microfluidic integration of regeneratable electrochemical affinity-based biosensors for continual monitoring of organ-on-a-chip devices. <i>Nature Protocols</i> , <b>2021</b> , 16, 2564-2593	18.8	19
124	3D bioprinted human iPSC-derived somatosensory constructs with functional and highly purified sensory neuron networks. <i>Biofabrication</i> , <b>2021</b> , 13,	10.5	3
123	Injectable hydrogel derived from chitosan with tunable mechanical properties via hybrid-crosslinking system. <i>Carbohydrate Polymers</i> , <b>2021</b> , 251, 117036	10.3	19
122	A Heart-Breast Cancer-on-a-Chip Platform for Disease Modeling and Monitoring of Cardiotoxicity Induced by Cancer Chemotherapy. <i>Small</i> , <b>2021</b> , 17, e2004258	11	21
121	Designing Gelatin Methacryloyl (GelMA)-Based Biopinks for Visible Light Stereolithographic 3D Biofabrication. <i>Macromolecular Bioscience</i> , <b>2021</b> , 21, e2000317	5.5	14

120	Tissue Adhesives: From Research to Clinical Translation. <i>Nano Today</i> , <b>2021</b> , 36, 101049-101049	17.9	19
119	Oxygen-Releasing Biomaterials: Current Challenges and Future Applications. <i>Trends in Biotechnology</i> , <b>2021</b> , 39, 1144-1159	15.1	12
118	Light-Controlled Growth Factors Release on Tetrapodal ZnO-Incorporated 3D-Printed Hydrogels for Developing Smart Wound Scaffold. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2007555	15.6	18
117	Synthesis and characterization of C2C12-laden gelatin methacryloyl (GelMA) from marine and mammalian sources. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 183, 918-926	7.9	2
116	Tethering Cells via Enzymatic Oxidative Crosslinking Enables Mechanotransduction in Non-Cell-Adhesive Materials. <i>Advanced Materials</i> , <b>2021</b> , 33, e2102660	24	3
115	Recent trends in gelatin methacryloyl nanocomposite hydrogels for tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2021</b> ,	5.4	11
114	Kidney-Draining Lymph Node Fibrosis Following Unilateral Ureteral Obstruction.. <i>Frontiers in Immunology</i> , <b>2021</b> , 12, 768412	8.4	
113	Cell-Laden Gelatin Methacryloyl Bioink for the Fabrication of Z-Stacked Hydrogel Scaffolds for Tissue Engineering. <i>Polymers</i> , <b>2020</b> , 12,	4.5	3
112	Novel Cell-Based and Tissue Engineering Approaches for Induction of Angiogenesis as an Alternative Therapy for Diabetic Retinopathy. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	3
111	Myocardial Tissue Engineering: Nonmulberry Silk Based Ink for Fabricating Mechanically Robust Cardiac Patches and Endothelialized Myocardium-on-a-Chip Application (Adv. Funct. Mater. 12/2020). <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2070079	15.6	2
110	Bioinspired Soft Robot with Incorporated Microelectrodes. <i>Journal of Visualized Experiments</i> , <b>2020</b> ,	1.6	4
109	Materials and technical innovations in 3D printing in biomedical applications. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 2930-2950	7.3	52
108	Silver Nanoparticles-Composing Alginate/Gelatine Hydrogel Improves Wound Healing In Vivo. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	79
107	Nonmulberry Silk Based Ink for Fabricating Mechanically Robust Cardiac Patches and Endothelialized Myocardium-on-a-Chip Application. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1907436	15.6	23
106	Combinatorial screening of biochemical and physical signals for phenotypic regulation of stem cell-based cartilage tissue engineering. <i>Science Advances</i> , <b>2020</b> , 6, eaaz5913	14.3	18
105	Lymph node fibroblastic reticular cells deposit fibrosis-associated collagen following organ transplantation. <i>Journal of Clinical Investigation</i> , <b>2020</b> , 130, 4182-4194	15.9	7
104	Hydrogel Production Platform with Dynamic Movement Using Photo-Crosslinkable/Temperature Reversible Chitosan Polymer and Stereolithography 4D Printing Technology. <i>Tissue Engineering and Regenerative Medicine</i> , <b>2020</b> , 17, 423-431	4.5	28
103	Toward a neurospheroid niche model: optimizing embedded 3D bioprinting for fabrication of neurospheroid brain-like co-culture constructs. <i>Biofabrication</i> , <b>2020</b> ,	10.5	16

102	Ferritin Nanocage Conjugated Hybrid Hydrogel for Tissue Engineering and Drug Delivery Applications. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 277-287	5.5	16
101	Customizable Composite Fibers for Engineering Skeletal Muscle Models. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 1112-1123	5.5	18
100	A 3D-Printed Hybrid Nasal Cartilage with Functional Electronic Olfaction. <i>Advanced Science</i> , <b>2020</b> , 7, 1901878	3.78	38
99	Printing of Adhesive Hydrogel Scaffolds for the Treatment of Skeletal Muscle Injuries.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 1568-1579	4.1	50
98	Development of bentonite-gelatin nanocomposite hybrid hydrogels for tissue engineering. <i>Applied Clay Science</i> , <b>2020</b> , 199, 105860	5.2	6
97	Kappa-Carrageenan-Based Dual Crosslinkable Bioink for Extrusion Type Bioprinting. <i>Polymers</i> , <b>2020</b> , 12,	4.5	14
96	Strategies to use fibrinogen as bioink for 3D bioprinting fibrin-based soft and hard tissues. <i>Acta Biomaterialia</i> , <b>2020</b> , 117, 60-76	10.8	53
95	Immune Organs and Immune Cells on a Chip: An Overview of Biomedical Applications. <i>Micromachines</i> , <b>2020</b> , 11,	3.3	21
94	Engineering Smart Targeting Nanovesicles and Their Combination with Hydrogels for Controlled Drug Delivery. <i>Pharmaceutics</i> , <b>2020</b> , 12,	6.4	31
93	A Foreign Body Response-on-a-Chip Platform. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1801425	10.1	29
92	Flexible and Stretchable PEDOT-Embedded Hybrid Substrates for Bioengineering and Sensory Applications. <i>ChemNanoMat</i> , <b>2019</b> , 5, 729-737	3.5	8
91	Biocompatible Carbon Nanotube-Based Hybrid Microfiber for Implantable Electrochemical Actuator and Flexible Electronic Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 20615-20627	9.5	22
90	Multiscale bioprinting of vascularized models. <i>Biomaterials</i> , <b>2019</b> , 198, 204-216	15.6	118
89	Modular Fabrication of Intelligent Material-Tissue Interfaces for Bioinspired and Biomimetic Devices. <i>Progress in Materials Science</i> , <b>2019</b> , 106,	42.2	48
88	Nanoparticle-Based Hybrid Scaffolds for Deciphering the Role of Multimodal Cues in Cardiac Tissue Engineering. <i>ACS Nano</i> , <b>2019</b> , 13, 12525-12539	16.7	44
87	3D Printed Cartilage-Like Tissue Constructs with Spatially Controlled Mechanical Properties. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1906330	15.6	33
86	3D Printed Tissues: 3D Printed Cartilage-Like Tissue Constructs with Spatially Controlled Mechanical Properties (Adv. Funct. Mater. 51/2019). <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1970350	15.6	1
85	Cardiac Fibrotic Remodeling on a Chip with Dynamic Mechanical Stimulation. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1801146	10.1	33

84	Tissue Regeneration: A Multifunctional Polymeric Periodontal Membrane with Osteogenic and Antibacterial Characteristics (Adv. Funct. Mater. 3/2018). <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1870021	15.6	4
83	Electrically Driven Microengineered Bioinspired Soft Robots. <i>Advanced Materials</i> , <b>2018</b> , 30, 1704189	24	94
82	Interconnectable Dynamic Compression Bioreactors for Combinatorial Screening of Cell Mechanobiology in Three Dimensions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 13293-13303	9.5	25
81	Protein/polysaccharide-based scaffolds mimicking native extracellular matrix for cardiac tissue engineering applications. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2018</b> , 106, 769-781	5.4	45
80	A Dual-layered Microfluidic System for Long-term Controlled In Situ Delivery of Multiple Anti-inflammatory Factors for Chronic Neural Applications. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1702009	15.6	16
79	Reversible Redox Activity by Ion-pH Dually Modulated Duplex Formation of i-Motif DNA with Complementary G-DNA. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	2
78	Microfluidics-Enabled Multimaterial Maskless Stereolithographic Bioprinting. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800242	24	190
77	Delivery of Cargo with a Bioelectronic Trigger. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 21782-21787	15.6	10
76	A Multifunctional Polymeric Periodontal Membrane with Osteogenic and Antibacterial Characteristics. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1703437	15.6	111
75	Marine Biomaterial-Based Bioinks for Generating 3D Printed Tissue Constructs. <i>Marine Drugs</i> , <b>2018</b> , 16,	6	34
74	pH-Responsive DNA Nanolinker Conjugated Hybrid Materials for Electrochemical Microactuator and Biosensor Applications. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 6630-6640	5.6	6
73	Bioprinting: Microfluidics-Enabled Multimaterial Maskless Stereolithographic Bioprinting (Adv. Mater. 27/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 1870201	24	4
72	3D Bioprinting for Tissue and Organ Fabrication. <i>Annals of Biomedical Engineering</i> , <b>2017</b> , 45, 148-163	4.7	368
71	Bioprinting: Rapid Continuous Multimaterial Extrusion Bioprinting (Adv. Mater. 3/2017). <i>Advanced Materials</i> , <b>2017</b> , 29,	24	9
70	Gold Nanocomposite Bioink for Printing 3D Cardiac Constructs. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1605352	15.6	173
69	Multisensor-integrated organs-on-chips platform for automated and continual in situ monitoring of organoid behaviors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E2293-E2302	11.5	416
68	Label-Free and Regenerative Electrochemical Microfluidic Biosensors for Continual Monitoring of Cell Secretomes. <i>Advanced Science</i> , <b>2017</b> , 4, 1600522	13.6	80
67	Engineered 3D Cardiac Fibrotic Tissue to Study Fibrotic Remodeling. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1601434	10.1	51

66	Bioprinted Osteogenic and Vasculogenic Patterns for Engineering 3D Bone Tissue. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1700015	10.1	222
65	Biosensors: Label-Free and Regenerative Electrochemical Microfluidic Biosensors for Continual Monitoring of Cell Secretomes (Adv. Sci. 5/2017). <i>Advanced Science</i> , <b>2017</b> , 4,	13.6	3
64	Tissue Engineering: Gold Nanocomposite Bioink for Printing 3D Cardiac Constructs (Adv. Funct. Mater. 12/2017). <i>Advanced Functional Materials</i> , <b>2017</b> , 27,	15.6	2
63	Single Cell Microgel Based Modular Bioinks for Uncoupled Cellular Micro- and Macroenvironments. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1600913	10.1	51
62	Spatially and Temporally Controlled Hydrogels for Tissue Engineering. <i>Materials Science and Engineering Reports</i> , <b>2017</b> , 119, 1-35	30.9	115
61	Integrin-Mediated Interactions Control Macrophage Polarization in 3D Hydrogels. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1700289	10.1	101
60	Nanostructured Fibrous Membranes with Rose Spike-Like Architecture. <i>Nano Letters</i> , <b>2017</b> , 17, 6235-6240	11.5	60
59	In vitro and in vivo analysis of visible light crosslinkable gelatin methacryloyl (GelMA) hydrogels. <i>Biomaterials Science</i> , <b>2017</b> , 5, 2093-2105	7.4	152
58	Rapid Continuous Multimaterial Extrusion Bioprinting. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604630	24	205
57	4D bioprinting: the next-generation technology for biofabrication enabled by stimuli-responsive materials. <i>Biofabrication</i> , <b>2016</b> , 9, 012001	10.5	190
56	Aptamer-Based Microfluidic Electrochemical Biosensor for Monitoring Cell-Secreted Trace Cardiac Biomarkers. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 10019-10027	7.8	137
55	Cell-microenvironment interactions and architectures in microvascular systems. <i>Biotechnology Advances</i> , <b>2016</b> , 34, 1113-1130	17.8	40
54	A liver-on-a-chip platform with bioprinted hepatic spheroids. <i>Biofabrication</i> , <b>2016</b> , 8, 014101	10.5	353
53	Nanoengineered biomimetic hydrogels for guiding human stem cell osteogenesis in three dimensional microenvironments. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 3544-3554	7.3	122
52	Elastomeric free-form blood vessels for interconnecting organs on chip systems. <i>Lab on A Chip</i> , <b>2016</b> , 16, 1579-86	7.2	70
51	Cold Water Fish Gelatin Methacryloyl Hydrogel for Tissue Engineering Application. <i>PLoS ONE</i> , <b>2016</b> , 11, e0163902	3.7	74
50	Reduced Graphene Oxide-GelMA Hybrid Hydrogels as Scaffolds for Cardiac Tissue Engineering. <i>Small</i> , <b>2016</b> , 12, 3677-89	11	283
49	Microfluidic Bioprinting of Heterogeneous 3D Tissue Constructs Using Low-Viscosity Bioink. <i>Advanced Materials</i> , <b>2016</b> , 28, 677-84	24	530

48	A Bioactive Carbon Nanotube-Based Ink for Printing 2D and 3D Flexible Electronics. <i>Advanced Materials</i> , <b>2016</b> , 28, 3280-9	24	156
47	Automated microfluidic platform of bead-based electrochemical immunosensor integrated with bioreactor for continual monitoring of cell secreted biomarkers. <i>Scientific Reports</i> , <b>2016</b> , 6, 24598	4.9	107
46	Graphene-based materials for tissue engineering. <i>Advanced Drug Delivery Reviews</i> , <b>2016</b> , 105, 255-274	18.5	404
45	Highly Elastic and Conductive Human-Based Protein Hybrid Hydrogels. <i>Advanced Materials</i> , <b>2016</b> , 28, 40-9	24	187
44	Platinum nanopetal-based potassium sensors for acute cell death monitoring. <i>RSC Advances</i> , <b>2016</b> , 6, 40517-40526	3.7	13
43	Direct 3D bioprinting of perfusable vascular constructs using a blend bioink. <i>Biomaterials</i> , <b>2016</b> , 106, 58-68	15.6	544
42	Aligned carbon nanotube-based flexible gel substrates for engineering bio-hybrid tissue actuators. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 4486-4495	15.6	116
41	Controlling mechanical properties of cell-laden hydrogels by covalent incorporation of graphene oxide. <i>Small</i> , <b>2014</b> , 10, 514-23	11	159
40	Microfluidics-assisted fabrication of gelatin-silica core-shell microgels for injectable tissue constructs. <i>Biomacromolecules</i> , <b>2014</b> , 15, 283-90	6.9	100
39	Surgical Materials: Current Challenges and Nano-enabled Solutions. <i>Nano Today</i> , <b>2014</b> , 9, 574-589	17.9	128
38	Injectable graphene oxide/hydrogel-based angiogenic gene delivery system for vasculogenesis and cardiac repair. <i>ACS Nano</i> , <b>2014</b> , 8, 8050-62	16.7	359
37	Tough and flexible CNT-polymeric hybrid scaffolds for engineering cardiac constructs. <i>Biomaterials</i> , <b>2014</b> , 35, 7346-54	15.6	209
36	Layer-by-layer assembly of 3D tissue constructs with functionalized graphene. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 6136-6144	15.6	131
35	Chitin Nanofiber Micropatterned Flexible Substrates for Tissue Engineering. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1,	7.3	55
34	Cell-laden microengineered and mechanically tunable hybrid hydrogels of gelatin and graphene oxide. <i>Advanced Materials</i> , <b>2013</b> , 25, 6385-91	24	225
33	Carbon-nanotube-embedded hydrogel sheets for engineering cardiac constructs and bioactuators. <i>ACS Nano</i> , <b>2013</b> , 7, 2369-80	16.7	659
32	Carbon-based nanomaterials: multifunctional materials for biomedical engineering. <i>ACS Nano</i> , <b>2013</b> , 7, 2891-7	16.7	573
31	DNA-coated MWNT microfibers for electrochemical actuator. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 162, 173-177	8.5	11



30	Carbon nanotube reinforced hybrid microgels as scaffold materials for cell encapsulation. <i>ACS Nano</i> , <b>2012</b> , 6, 362-72	16.7	347
29	Effect of C(60) fullerene on the duplex formation of i-motif DNA with complementary DNA in solution. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 4783-8	3.4	23
28	Enhanced actuation of PPy/CNT hybrid fibers using porous structured DNA hydrogel. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 145, 89-92	8.5	28
27	Nanocomposite Hydrogel with High Toughness for Bioactuators. <i>Advanced Materials</i> , <b>2009</b> , 21, 1712-1715	15.4	174
26	Fullerene Attachment Enhances Performance of a DNA Nanomachine. <i>Advanced Materials</i> , <b>2009</b> , 21, 1907-1910	24	46
25	Tough supersoft sponge fibers with tunable stiffness from a DNA self-assembly technique. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 5116-20	16.4	31
24	pH-dependent structures of an i-motif DNA in solution. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 1852-6	9.4	54
23	Switchable redox activity by proton fuelled DNA nano-machines. <i>Chemical Communications</i> , <b>2009</b> , 1240-3	3.8	16
22	Hydrogel-Assisted Polyaniline Microfiber as Controllable Electrochemical Actuatable Supercapacitor. <i>Journal of the Electrochemical Society</i> , <b>2009</b> , 156, A313	3.9	51
21	Electrochemical pH oscillations of ethyl viologen/ionic liquid. <i>Langmuir</i> , <b>2008</b> , 24, 3562-5	4	3
20	DNA hydrogel fiber with self-entanglement prepared by using an ionic liquid. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 2470-4	16.4	45
19	Electrochemical actuation in chitosan/polyaniline microfibers for artificial muscles fabricated using an in situ polymerization. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 129, 834-840	8.5	121
18	A novel dual mode actuation in chitosan/polyaniline/carbon nanotube fibers. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 121, 616-621	8.5	60
17	Fabrication of Polymeric Composite Nanostructures Containing Ferritin Nanoparticles and Carbon Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 921, 1		1
16	Mechanical properties of chitosan/CNT microfibers obtained with improved dispersion. <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 115, 678-684	8.5	104
15	Synthesis of conducting polyaniline in semi-IPN based on chitosan. <i>Synthetic Metals</i> , <b>2005</b> , 154, 213-216	3.6	34
14	Swelling Behavior of Semi-Interpenetrating Polymer Network Hydrogels Based on Chitosan and Poly(acryl amide). <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2005</b> , 42, 1073-1083	2.2	24
13	Synthesis and characteristics of semi-interpenetrating polymer network hydrogels based on chitosan and poly(hydroxy ethyl methacrylate). <i>Journal of Applied Polymer Science</i> , <b>2005</b> , 96, 86-92	2.9	28



12	Synthesis and characteristics of a semi-interpenetrating polymer network based on chitosan/polyaniline under different pH conditions. <i>Journal of Applied Polymer Science</i> , <b>2005</b> , 96, 867-873 <sup>2,9</sup>		53
11	Enhancement of the electromechanical behavior of IPMCs based on chitosan/polyaniline ion exchange membranes fabricated by freeze-drying. <i>Smart Materials and Structures</i> , <b>2005</b> , 14, 889-894	3.4	20
10	Electromechanical properties of hydrogels based on chitosan and poly(hydroxyethyl methacrylate) in NaCl solution. <i>Smart Materials and Structures</i> , <b>2004</b> , 13, 1036-1039	3.4	50
9	Synthesis and characteristics of polyelectrolyte complexes composed of chitosan and hyaluronic acid. <i>Journal of Applied Polymer Science</i> , <b>2004</b> , 91, 2908-2913	2.9	30
8	Electrical behavior of chitosan and poly(hydroxyethyl methacrylate) hydrogel in the contact system. <i>Journal of Applied Polymer Science</i> , <b>2004</b> , 92, 915-919	2.9	30
7	Swelling characterizations of chitosan and polyacrylonitrile semi-interpenetrating polymer network hydrogels. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 87, 2011-2015	2.9	49
6	Water and temperature response of semi-IPN hydrogels composed of chitosan and polyacrylonitrile. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 88, 2721-2724	2.9	14
5	Electrical response characterization of chitosan/polyacrylonitrile hydrogel in NaCl solutions. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 90, 91-96	2.9	49
4	Thermal Characteristics of Polyelectrolyte Complexes Composed of Chitosan and Hyaluronic Acid. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2003</b> , 40, 807-815	2.2	17
3	Engineering bioactive synthetic polymers for biomedical applications: a review with emphasis on tissue engineering and controlled release. <i>Materials Advances</i> ,	3.3	6
2	hiPSC-derived 3D Bioprinted Skeletal Muscle Tissue Implants Regenerate Skeletal Muscle Following Volumetric Muscle Loss		2
1	Wirelessly Powered 3D Printed Hierarchical Biohybrid Robots with Multiscale Mechanical Properties. <i>Advanced Functional Materials</i> , 2202674	15.6	0