

# Ung-Il Chung

## List of Publications by Year in descending order

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Version: 2024-02-01

243  
papers

14,595  
citations

17440

63  
h-index

22166

113  
g-index

254  
all docs

254  
docs citations

254  
times ranked

15771  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement of intercellular interaction between iPSC-derived neural progenitor cells and activated endothelial cells using cell surface modification with functional oligopeptides. <i>Biomaterials Science</i> , 2022, 10, 925-938.	5.4	2
2	Star-Polymer-DNA Gels Showing Highly Predictable and Tunable Mechanical Responses. <i>Advanced Materials</i> , 2022, 34, e2108818.	21.0	14
3	Statistical Methods for Item Reduction in a Representative Lifestyle Questionnaire: Pilot Questionnaire Study. <i>Interactive Journal of Medical Research</i> , 2022, 11, e28692.	1.4	6
4	Simulation of foraging behavior using a decision-making agent with Bayesian and inverse Bayesian inference: Temporal correlations and power laws in displacement patterns. <i>Chaos, Solitons and Fractals</i> , 2022, 157, 111976.	5.1	3
5	Tri-branched gels: Rubbery materials with the lowest branching factor approach the ideal elastic limit. <i>Science Advances</i> , 2022, 8, eabk0010.	10.3	32
6	Heart Rate Modeling and Prediction Using Autoregressive Models and Deep Learning. <i>Sensors</i> , 2022, 22, 34.	3.8	15
7	Sleep Satisfaction May Modify the Association between Metabolic Syndrome and BMI, Respectively, and Occupational Stress in Japanese Office Workers. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 5095.	2.6	2
8	Non-swellability of polyelectrolyte gel in divalent salt solution due to aggregation formation. <i>Polymer</i> , 2022, 250, 124894.	3.8	2
9	Runx1 and Runx2 inhibit fibrotic conversion of cellular niches for hematopoietic stem cells. <i>Nature Communications</i> , 2022, 13, 2654.	12.8	13
10	Experimental Comparison of Bond Lifetime and Viscoelastic Relaxation in Transient Networks with Well-Controlled Structures. <i>ACS Macro Letters</i> , 2022, 11, 753-759.	4.8	8
11	Single-cell RNA sequencing unravels heterogeneity of skeletal progenitors and cell-cell interactions underlying the bone repair process. <i>Regenerative Therapy</i> , 2022, 21, 9-18.	3.0	7
12	Elucidating gene regulatory mechanisms underlying human skeletal development using human pluripotent stem cell-derived bone tissues and single-cell multiome analysis. <i>Bone Reports</i> , 2022, 16, 101572.	0.4	0
13	Evidence that TD-198946 enhances the chondrogenic potential of human synovium-derived stem cells through the NOTCH3 signaling pathway. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2021, 15, 103-115.	2.7	4
14	The Progress of Stem Cell Technology for Skeletal Regeneration. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1404.	4.1	5
15	On-demand retrieval of cells three-dimensionally seeded in injectable thioester-based hydrogels. <i>RSC Advances</i> , 2021, 11, 23637-23643.	3.6	11
16	Self-incremental learning vector quantization with human cognitive biases. <i>Scientific Reports</i> , 2021, 11, 3910.	3.3	4
17	Molecular crystallization directed by polymer size and overlap under dilute and crowded macromolecular conditions. <i>Polymer Journal</i> , 2021, 53, 633-642.	2.7	3
18	Effect of Nonlinear Elasticity on the Swelling Behaviors of Highly Swollen Polyelectrolyte Gels. <i>Gels</i> , 2021, 7, 25.	4.5	5

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19	An Agent-Based Model of the Local Spread of SARS-CoV-2: Modeling Study. JMIR Medical Informatics, 2021, 9, e24192.	2.6	11
20	Power Laws Derived from a Bayesian Decision-Making Model in Non-Stationary Environments. Symmetry, 2021, 13, 718.	2.2	2
21	Association of managerial position with cardiovascular risk factors: A fixed-effects analysis for Japanese employees. Scandinavian Journal of Work, Environment and Health, 2021, 47, 425-434.	3.4	7
22	Claims-based algorithms for common chronic conditions were efficiently constructed using machine learning methods. PLoS ONE, 2021, 16, e0254394.	2.5	0
23	Temperature Dependence of Polymer Network Diffusion. Physical Review Letters, 2021, 127, 237801.	7.8	11
24	Associations of work-related stress and total sleep time with cholesterol levels in an occupational cohort of Japanese office workers. Journal of Occupational Health, 2021, 63, e12275.	2.1	6
25	Cluster growth from a dilute system in a percolation process. Polymer Journal, 2020, 52, 289-297.	2.7	9
26	Hedgehog Activation Regulates Human Osteoblastogenesis. Stem Cell Reports, 2020, 15, 125-139.	4.8	16
27	Understanding paraxial mesoderm development and sclerotome specification for skeletal repair. Experimental and Molecular Medicine, 2020, 52, 1166-1177.	7.7	53
28	Swelling Behaviors of Hydrogels with Alternating Neutral/Highly Charged Sequences. Macromolecules, 2020, 53, 8244-8254.	4.8	17
29	The small compound, TD-198946, protects against intervertebral degeneration by enhancing glycosaminoglycan synthesis in nucleus pulposus cells. Scientific Reports, 2020, 10, 14190.	3.3	6
30	Mixing and Elastic Contributions to the Diffusion Coefficient of Polymer Networks. Macromolecules, 2020, 53, 7717-7725.	4.8	7
31	Stepwise strategy for generating osteoblasts from human pluripotent stem cells under fully defined xeno-free conditions with small-molecule inducers. Regenerative Therapy, 2020, 14, 19-31.	3.0	14
32	Extended Bayesian inference incorporating symmetry bias. BioSystems, 2020, 190, 104104.	2.0	4
33	Trehalose decreases blood clotting in the cerebral space after experimental subarachnoid hemorrhage. Journal of Veterinary Medical Science, 2020, 82, 566-570.	0.9	1
34	Universal Equation of State Describes Osmotic Pressure throughout Gelation Process. Physical Review Letters, 2020, 125, 267801.	7.8	20
35	Enhancement of chondrogenic differentiation supplemented by a novel small compound for chondrocyte-based tissue engineering. Journal of Experimental Orthopaedics, 2020, 7, 10.	1.8	7
36	A new method of Bayesian causal inference in non-stationary environments. PLoS ONE, 2020, 15, e0233559.	2.5	5

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37	Similarity in Linear Viscoelastic Behaviors of Network Formation and Degradation Processes. Nihon Reoroji Gakkaishi, 2020, 48, 191-198.	1.0	2
38	eHealth Delivery of Educational Content Using Selected Visual Methods to Improve Health Literacy on Lifestyle-Related Diseases: Literature Review. JMIR MHealth and UHealth, 2020, 8, e18316.	3.7	13
39	Using mHealth to Provide Mobile App Users With Visualization of Health Checkup Data and Educational Videos on Lifestyle-Related Diseases: Methodological Framework for Content Development. JMIR MHealth and UHealth, 2020, 8, e20982.	3.7	8
40	Association Between Electroencephalogram-Derived Sleep Measures and the Change of Emotional Status Analyzed Using Voice Patterns: Observational Pilot Study. JMIR Formative Research, 2020, 4, e16880.	1.4	2
41	A new method of Bayesian causal inference in non-stationary environments. , 2020, 15, e0233559.		0
42	A new method of Bayesian causal inference in non-stationary environments. , 2020, 15, e0233559.		0
43	A new method of Bayesian causal inference in non-stationary environments. , 2020, 15, e0233559.		0
44	A new method of Bayesian causal inference in non-stationary environments. , 2020, 15, e0233559.		0
45	Simple and Robust Differentiation of Human Pluripotent Stem Cells toward Chondrocytes by Two Small-Molecule Compounds. Stem Cell Reports, 2019, 13, 530-544.	4.8	31
46	A validation study of a consumer wearable sleep tracker compared to a portable EEG system in naturalistic conditions. Journal of Psychosomatic Research, 2019, 126, 109822.	2.6	34
47	Structure-property relationship of a model network containing solvent. Science and Technology of Advanced Materials, 2019, 20, 608-621.	6.1	30
48	Mechanical properties of doubly crosslinked gels. Polymer Journal, 2019, 51, 851-859.	2.7	5
49	Runx1 contributes to articular cartilage maintenance by enhancement of cartilage matrix production and suppression of hypertrophic differentiation. Scientific Reports, 2019, 9, 7666.	3.3	27
50	Connectivity dependence of gelation and elasticity in AB-type polymerization: an experimental comparison of the dynamic process and stoichiometrically imbalanced mixing. Soft Matter, 2019, 15, 5017-5025.	2.7	24
51	Excessive mechanical loading promotes osteoarthritis through the gremlin-1-NF- $\kappa$ B pathway. Nature Communications, 2019, 10, 1442.	12.8	179
52	Diffusion Behavior of Water Molecules in Hydrogels with Controlled Network Structure. Macromolecules, 2019, 52, 1923-1929.	4.8	32
53	Dilution Effect on the Cluster Growth near the Gelation Threshold. Nihon Reoroji Gakkaishi, 2019, 47, 61-66.	1.0	9
54	Wnt/ $\beta$ -catenin signaling contributes to articular cartilage homeostasis through lubricin induction in the superficial zone. Arthritis Research and Therapy, 2019, 21, 247.	3.5	38

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55	Shear Modulus Dependence of the Diffusion Coefficient of a Polymer Network. <i>Macromolecules</i> , 2019, 52, 9613-9619.	4.8	10
56	Effect of the small compound TD 198946 on glycosaminoglycan synthesis and transforming growth factor $\beta$ 3-associated chondrogenesis of human synovium-derived stem cells in vitro. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019, 13, 446-458.	2.7	10
57	Direct cell-cell contact between mature osteoblasts and osteoclasts dynamically controls their functions in vivo. <i>Nature Communications</i> , 2018, 9, 300.	12.8	128
58	Bone regeneration by human dental pulp stem cells using a helioxanthin derivative and cell-sheet technology. <i>Stem Cell Research and Therapy</i> , 2018, 9, 24.	5.5	73
59	A report of the 17th congress of the Japanese Society for Regenerative Medicine. <i>Regenerative Therapy</i> , 2018, 9, 10-14.	3.0	0
60	Fast-forming hydrogel with ultralow polymeric content as an artificial vitreous body. <i>Nature Biomedical Engineering</i> , 2017, 1, .	22.5	150
61	Three-dimensional system enabling the maintenance and directed differentiation of pluripotent stem cells under defined conditions. <i>Science Advances</i> , 2017, 3, e1602875.	10.3	47
62	New design of hydrogels with tuned electro-osmosis: a potential model system to understand electro-kinetic transport in biological tissues. <i>Journal of Materials Chemistry B</i> , 2017, 5, 4526-4534.	5.8	8
63	Bone Regenerative Medicine in Oral and Maxillofacial Region Using a Three-Dimensional Printer <sup />. <i>Tissue Engineering - Part A</i> , 2017, 23, 515-521.	3.1	28
64	Identification of the gene-regulatory landscape in skeletal development and potential links to skeletal regeneration. <i>Regenerative Therapy</i> , 2017, 6, 100-107.	3.0	5
65	Permeation of Water through Hydrogels with Controlled Network Structure. <i>Macromolecules</i> , 2017, 50, 9411-9416.	4.8	22
66	Regulation of Chondrocyte Survival in Mouse Articular Cartilage by p63. <i>Arthritis and Rheumatology</i> , 2017, 69, 598-609.	5.6	19
67	Repair of segmental radial defects in dogs using tailor-made titanium mesh cages with plates combined with calcium phosphate granules and basic fibroblast growth factor-binding ion complex gel. <i>Journal of Artificial Organs</i> , 2017, 20, 91-98.	0.9	4
68	Experimental Observation of Two Features Unexpected from the Classical Theories of Rubber Elasticity. <i>Physical Review Letters</i> , 2017, 119, 267801.	7.8	31
69	Targeting gene expression to specific cells of kidney tubules in vivo, using adenoviral promoter fragments. <i>PLoS ONE</i> , 2017, 12, e0168638.	2.5	13
70	Different regulation of limb development by p63 transcript variants. <i>PLoS ONE</i> , 2017, 12, e0174122.	2.5	4
71	Non-Osmotic Hydrogels: A Rational Strategy for Safely Degradable Hydrogels. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9282-9286.	13.8	58
72	Characterization of alternative plasticizers in poly(vinyl chloride) sheets for blood containers. <i>Journal of Vinyl and Additive Technology</i> , 2016, 22, 520-528.	3.4	4

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73	Non-Osmotic Hydrogels: A Rational Strategy for Safely Degradable Hydrogels. <i>Angewandte Chemie</i> , 2016, 128, 9428-9432.	2.0	12
74	Clinical experience of full custom-made artificial bones for the maxillofacial region. <i>Regenerative Therapy</i> , 2016, 5, 72-78.	3.0	12
75	Computed tomographic evaluation of novel custom-made artificial bones, "CT-bone", applied for maxillofacial reconstruction. <i>Regenerative Therapy</i> , 2016, 5, 1-8.	3.0	26
76	Co-lyophilized Aspirin with Trehalose Causes Less Injury to Human Gastric Cells and Gastric Mucosa of Rats. <i>Digestive Diseases and Sciences</i> , 2016, 61, 2242-2251.	2.3	3
77	Local administration of a hedgehog agonist accelerates fracture healing in a mouse model. <i>Biochemical and Biophysical Research Communications</i> , 2016, 479, 772-778.	2.1	16
78	Biphasic regulation of chondrocytes by RelA through induction of anti-apoptotic and catabolic target genes. <i>Nature Communications</i> , 2016, 7, 13336.	12.8	73
79	Sol-gel transition behavior near critical concentration and connectivity. <i>Polymer Journal</i> , 2016, 48, 629-634.	2.7	47
80	Yielding Criteria of Double Network Hydrogels. <i>Macromolecules</i> , 2016, 49, 1865-1872.	4.8	119
81	Hydrogels: Reliable Hydrogel with Mechanical "Fuse Link" in an Aqueous Environment ( <i>Adv. Mater.</i> ) Tj ETQq1 1,0,784314 rgBT /C 21,0 1	21.0	51
82	Biomaterials: Design of Hydrogels for Biomedical Applications ( <i>Adv. Healthcare Mater.</i> 16/2015). <i>Advanced Healthcare Materials</i> , 2015, 4, 2598-2598.	7.6	3
83	The H2 blocker famotidine suppresses progression of ossification of the posterior longitudinal ligament in a mouse model. <i>RMD Open</i> , 2015, 1, e000068-e000068.	3.8	4
84	Electrophoretic mobility of semi-flexible double-stranded DNA in defect-controlled polymer networks: Mechanism investigation and role of structural parameters. <i>Journal of Chemical Physics</i> , 2015, 142, 234904.	3.0	8
85	Reliable Hydrogel with Mechanical "Fuse Link" in an Aqueous Environment. <i>Advanced Materials</i> , 2015, 27, 7407-7411.	21.0	51
86	Effect of Swelling and Deswelling on Mechanical Properties of Polymer Gels. <i>Macromolecular Symposia</i> , 2015, 358, 128-139.	0.7	13
87	Augmentation of Flat Bone Area Using Tetrapod-Shaped Artificial Bone in Rats. <i>Journal of Hard Tissue Biology</i> , 2015, 24, 69-76.	0.4	0
88	Molecular Dynamics Simulation of a Coarse Grained Model of Tetra-PEG Gel with Monomers of 5 and 9 particles. , 2015, , .		0
89	Signaling pathways regulating the specification and differentiation of the osteoblast lineage. <i>Regenerative Therapy</i> , 2015, 1, 57-62.	3.0	32
90	Transcription factor Hes1 modulates osteoarthritis development in cooperation with calcium/calmodulin-dependent protein kinase 2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3080-3085.	7.1	84

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91	Design of Hydrogels for Biomedical Applications. <i>Advanced Healthcare Materials</i> , 2015, 4, 2360-2374.	7.6	108
92	Probing the cross-effect of strains in non-linear elasticity of nearly regular polymer networks by pure shear deformation. <i>Journal of Chemical Physics</i> , 2015, 142, 174908.	3.0	13
93	Histochemical and Radiological Study of Bone Regeneration by the Combinatorial Use of Tetrapod-Shaped Artificial Bone and Collagen. <i>Journal of Hard Tissue Biology</i> , 2015, 24, 199-210.	0.4	3
94	Gli1 Haploinsufficiency Leads to Decreased Bone Mass with an Uncoupling of Bone Metabolism in Adult Mice. <i>PLoS ONE</i> , 2014, 9, e109597.	2.5	33
95	Relationships between Mechanical Properties of Polymer Gels and Polymer Volume Fractions at Preparation and at Interested State. <i>Nihon Reorji Gakkaishi</i> , 2014, 42, 97-102.	1.0	2
96	Mechanical properties of tetra-PEG gels with supercoiled network structure. <i>Journal of Chemical Physics</i> , 2014, 140, 074902.	3.0	27
97	Comparison of the long-term effects on rabbit bone defects between Tetrabone <sup>®</sup> and $\hat{I}^2$ -tricalcium phosphate granules implantation. <i>Journal of Artificial Organs</i> , 2014, 17, 344-351.	0.9	3
98	Effect of prepolymer architecture on the network structure formed by AB-type crosslink-coupling. <i>Polymer Journal</i> , 2014, 46, 14-20.	2.7	11
99	Disease-modifying effects of TD-198946 on progressed osteoarthritis in a mouse model. <i>Annals of the Rheumatic Diseases</i> , 2014, 73, 2062-2064.	0.9	5
100	Investigation of migration behavior of rod-like dsDNA in gel with precisely controlled network structure. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1622, 169-174.	0.1	0
101	Mechanical properties of polymer gels with bimodal distribution in strand length. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1622, 31-36.	0.1	0
102	PTHrP Action on Skeletal Development: A Key for the Controlled Growth of Endochondral Bones. <i>Clinical Reviews in Bone and Mineral Metabolism</i> , 2014, 12, 130-141.	0.8	2
103	“Nonswellable” Hydrogel Without Mechanical Hysteresis. <i>Science</i> , 2014, 343, 873-875.	12.6	511
104	Identification of Fibroblast Growth Factor-18 as a Molecule to Protect Adult Articular Cartilage by Gene Expression Profiling. <i>Journal of Biological Chemistry</i> , 2014, 289, 10192-10200.	3.4	61
105	Degradation Behavior of Polymer Gels Caused by Nonspecific Cleavages of Network Strands. <i>Chemistry of Materials</i> , 2014, 26, 5352-5357.	6.7	24
106	Antidiabetic effect of nepodin, a component of Rumex roots, and its modes of action <i>in vitro</i> and <i>in vivo</i> . <i>BioFactors</i> , 2014, 40, 436-447.	5.4	21
107	Electrophoretic Mobility of Double-Stranded DNA in Polymer Solutions and Gels with Tuned Structures. <i>Macromolecules</i> , 2014, 47, 3582-3586.	4.8	23
108	Molecular and structural patterns of bone regeneration in surgically created defects containing bone substitutes. <i>Biomaterials</i> , 2014, 35, 3229-3242.	11.4	28

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109	Stepwise Differentiation of Pluripotent Stem Cells into Osteoblasts Using Four Small Molecules under Serum-free and Feeder-free Conditions. <i>Stem Cell Reports</i> , 2014, 2, 751-760.	4.8	80
110	Identification of SCAN Domain Zinc-Finger Gene ZNF449 as a Novel Factor of Chondrogenesis. <i>PLoS ONE</i> , 2014, 9, e115169.	2.5	4
111	Mechanical Properties of Polymer Gels with Bimodal Distribution in Strand Length. <i>Macromolecules</i> , 2013, 46, 7027-7033.	4.8	29
112	Bone healing by sterilizable calcium phosphate tetrapods eluting osteogenic molecules. <i>Biomaterials</i> , 2013, 34, 5530-5537.	11.4	25
113	Nanog promotes osteogenic differentiation of the mouse mesenchymal cell line C3H10T1/2 by modulating bone morphogenetic protein (BMP) signaling. <i>Journal of Cellular Physiology</i> , 2013, 228, 163-171.	4.1	13
114	A novel disease-modifying osteoarthritis drug candidate targeting Runx1. <i>Annals of the Rheumatic Diseases</i> , 2013, 72, 748-753.	0.9	75
115	Î²â€catenin regulates parathyroid hormone/parathyroid hormoneâ€related protein receptor signals and chondrocyte hypertrophy through binding to the intracellular Câ€terminal region of the receptor. <i>Arthritis and Rheumatism</i> , 2013, 65, 429-435.	6.7	17
116	Growth-associated hyperphosphatemia in young recipients accelerates aortic allograft calcification in a rat model. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2013, 145, 522-530.	0.8	5
117	Repair of rabbit segmental femoral defects by using a combination of tetrapod-shaped calcium phosphate granules and basic fibroblast growth factor-binding ion complex gel. <i>Biomaterials</i> , 2013, 34, 9056-9062.	11.4	11
118	Shrinking Kinetics of Polymer Gels with Alternating Hydrophilic/Thermoresponsive Prepolymer Units. <i>Macromolecules</i> , 2013, 46, 4114-4119.	4.8	14
119	Synthesis and Fracture Process Analysis of Double Network Hydrogels with a Well-Defined First Network. <i>ACS Macro Letters</i> , 2013, 2, 518-521.	4.8	99
120	Transition between Phantom and Affine Network Model Observed in Polymer Gels with Controlled Network Structure. <i>Macromolecules</i> , 2013, 46, 1035-1040.	4.8	172
121	Cell-sheet technology combined with a thienoindazole derivative small compound TD-198946 for cartilage regeneration. <i>Biomaterials</i> , 2013, 34, 5581-5587.	11.4	27
122	Ultimate elongation of polymer gels with controlled network structure. <i>RSC Advances</i> , 2013, 3, 13251.	3.6	47
123	Correlation between Local and Global Inhomogeneities of Chemical Gels. <i>Macromolecules</i> , 2013, 46, 9772-9781.	4.8	20
124	Migration Behavior of Rodlike dsDNA under Electric Field in Homogeneous Polymer Networks. <i>Macromolecules</i> , 2013, 46, 8657-8663.	4.8	17
125	Fracture energy of polymer gels with controlled network structures. <i>Journal of Chemical Physics</i> , 2013, 139, 144905.	3.0	102
126	Targeted therapy of spontaneous murine pancreatic tumors by polymeric micelles prolongs survival and prevents peritoneal metastasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 11397-11402.	7.1	91



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127	Transcription Factor YY1 Contributes to Tumor Growth by Stabilizing Hypoxia Factor HIF-1 $\alpha$ in a p53-Independent Manner. <i>Cancer Research</i> , 2013, 73, 1787-1799.	0.9	62
128	Transcriptional Induction of ADAMTS5 Protein by Nuclear Factor- $\kappa$ B (NF- $\kappa$ B) Family Member RelA/p65 in Chondrocytes during Osteoarthritis Development. <i>Journal of Biological Chemistry</i> , 2013, 288, 28620-28629.	3.4	59
129	Implementation of tetra-poly(ethylene glycol) hydrogel with high mechanical strength into microfluidic device technology. <i>Biomicrofluidics</i> , 2013, 7, 054109.	2.4	13
130	Hedgehog-Gli Activators Direct Osteo-chondrogenic Function of Bone Morphogenetic Protein toward Osteogenesis in the Perichondrium. <i>Journal of Biological Chemistry</i> , 2013, 288, 9924-9932.	3.4	53
131	Notch signaling in chondrocytes modulates endochondral ossification and osteoarthritis development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 1875-1880.	7.1	152
132	Generation of Col2a1-EGFP iPS Cells for Monitoring Chondrogenic Differentiation. <i>PLoS ONE</i> , 2013, 8, e74137.	2.5	25
133	Tenomodulin Expression in the Periodontal Ligament Enhances Cellular Adhesion. <i>PLoS ONE</i> , 2013, 8, e60203.	2.5	25
134	Cli1 Protein Participates in Hedgehog-mediated Specification of Osteoblast Lineage during Endochondral Ossification. <i>Journal of Biological Chemistry</i> , 2012, 287, 17860-17869.	3.4	75
135	GSK-3 $\alpha$ and GSK-3 $\beta$ Proteins Are Involved in Early Stages of Chondrocyte Differentiation with Functional Redundancy through RelA Protein Phosphorylation*. <i>Journal of Biological Chemistry</i> , 2012, 287, 29227-29236.	3.4	43
136	Rubber elasticity for incomplete polymer networks. <i>Journal of Chemical Physics</i> , 2012, 137, 224903.	3.0	40
137	Lyophilized Aspirin with Trehalose May Decrease the Incidence of Gastric Injuries in Healthy Dogs. <i>Journal of Veterinary Medical Science</i> , 2012, 74, 1511-1516.	0.9	3
138	C/EBP $\beta$ and RUNX2 cooperate to degrade cartilage with MMP-13 as the target and HIF-2 $\alpha$ as the inducer in chondrocytes. <i>Human Molecular Genetics</i> , 2012, 21, 1111-1123.	2.9	137
139	Effect of swelling and deswelling on the elasticity of polymer networks in the dilute to semi-dilute region. <i>Soft Matter</i> , 2012, 8, 2730.	2.7	66
140	Structural Analysis of High Performance Ion-Gel Comprising Tetra-PEG Network. <i>Macromolecules</i> , 2012, 45, 3902-3909.	4.8	42
141	Kinetic Study for AB-Type Coupling Reaction of Tetra-Arm Polymers. <i>Macromolecules</i> , 2012, 45, 1031-1036.	4.8	45
142	High-performance ion gel with tetra-PEG network. <i>Soft Matter</i> , 2012, 8, 1756-1759.	2.7	129
143	Strain energy density function of a near-ideal polymer network estimated by biaxial deformation of Tetra-PEG gel. <i>Soft Matter</i> , 2012, 8, 8217.	2.7	40
144	Famotidine suppresses osteogenic differentiation of tendon cells in vitro and pathological calcification of tendon in vivo. <i>Journal of Orthopaedic Research</i> , 2012, 30, 1958-1962.	2.3	6

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145	Development and evaluation of tetrapod-shaped granular artificial bones. <i>Acta Biomaterialia</i> , 2012, 8, 2340-2347.	8.3	21
146	Regulatory mechanism for the stimulatory action of genistein on glucose uptake in vitro and in vivo. <i>Journal of Nutritional Biochemistry</i> , 2012, 23, 501-509.	4.2	55
147	Lack of a chondroprotective effect of cyclooxygenase 2 inhibition in a surgically induced model of osteoarthritis in mice. <i>Arthritis and Rheumatism</i> , 2012, 64, 198-203.	6.7	39
148	Current Progress on Tissue Engineering of Bone and Cartilage. <i>Endocrinology and Metabolism</i> , 2012, 27, 1.	3.0	1
149	Bioactive factors for tissue regeneration: state of the art. <i>Muscles, Ligaments and Tendons Journal</i> , 2012, 2, 193-203.	0.3	12
150	Examination of the Theories of Rubber Elasticity Using an Ideal Polymer Network. <i>Macromolecules</i> , 2011, 44, 5817-5821.	4.8	133
151	Precise Control and Prediction of Hydrogel Degradation Behavior. <i>Macromolecules</i> , 2011, 44, 3567-3571.	4.8	67
152	SANS Studies on Tetra-PEG Gel under Uniaxial Deformation. <i>Macromolecules</i> , 2011, 44, 1203-1210.	4.8	54
153	Connectivity and Structural Defects in Model Hydrogels: A Combined Proton NMR and Monte Carlo Simulation Study. <i>Macromolecules</i> , 2011, 44, 9666-9674.	4.8	161
154	Harmine promotes osteoblast differentiation through bone morphogenetic protein signaling. <i>Biochemical and Biophysical Research Communications</i> , 2011, 409, 260-265.	2.1	65
155	Effect of Trehalose Coating on Basic Fibroblast Growth Factor Release from Tailor-Made Bone Implants. <i>Journal of Veterinary Medical Science</i> , 2011, 73, 1547-1552.	0.9	3
156	Reply to: "Lack of HIF-2 $\beta$ in limb bud mesenchyme causes a modest and transient delay of endochondral bone development" and "Replication studies in various ethnic populations do not support the association of the HIF-2 $\beta$ SNP rs17039192 with knee osteoarthritis". <i>Nature Medicine</i> , 2011, 17, 27-29.	30.7	19
157	G $\beta$ q Signal in Osteoblasts Is Inhibitory to the Osteoanabolic Action of Parathyroid Hormone. <i>Journal of Biological Chemistry</i> , 2011, 286, 13733-13740.	3.4	23
158	Identification of oxytetracycline as a chondrogenic compound using a cell-based screening system. <i>Journal of Bone and Mineral Metabolism</i> , 2010, 28, 627-633.	2.7	15
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