

Sei Kwang Hahn

List of Publications by Year in descending order

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Version: 2024-02-01

176
papers

10,747
citations

23544

58
h-index

36008

97
g-index

183
all docs

183
docs citations

183
times ranked

14982
citing authors

#	ARTICLE	IF	CITATIONS
1	Target specific and long-acting delivery of protein, peptide, and nucleotide therapeutics using hyaluronic acid derivatives. <i>Journal of Controlled Release</i> , 2010, 141, 2-12.	4.8	468
2	In situ-forming injectable hydrogels for regenerative medicine. <i>Progress in Polymer Science</i> , 2014, 39, 1973-1986.	11.8	435
3	Multifunctional materials for implantable and wearable photonic healthcare devices. <i>Nature Reviews Materials</i> , 2020, 5, 149-165.	23.3	403
4	Light-guiding hydrogels for cell-based sensing and optogenetic synthesis in vivo. <i>Nature Photonics</i> , 2013, 7, 987-994.	15.6	287
5	Wireless smart contact lens for diabetic diagnosis and therapy. <i>Science Advances</i> , 2020, 6, eaba3252.	4.7	255
6	Bioorthogonal Copper-Free Click Chemistry In Vivo for Tumor-Targeted Delivery of Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11836-11840.	7.2	235
7	In Situ Supramolecular Assembly and Modular Modification of Hyaluronic Acid Hydrogels for 3D Cellular Engineering. <i>ACS Nano</i> , 2012, 6, 2960-2968.	7.3	229
8	Nanographene Oxide-Hyaluronic Acid Conjugate for Photothermal Ablation Therapy of Skin Cancer. <i>ACS Nano</i> , 2014, 8, 260-268.	7.3	208
9	Three-dimensional bioprinting of multilayered constructs containing human mesenchymal stromal cells for osteochondral tissue regeneration in the rabbit knee joint. <i>Biofabrication</i> , 2016, 8, 014102.	3.7	200
10	Optimization of microbial poly(3-hydroxybutyrate) recover using dispersions of sodium hypochlorite solution and chloroform. <i>Biotechnology and Bioengineering</i> , 1994, 44, 256-261.	1.7	196
11	Single-File Diffusion of Protein Drugs through Cylindrical Nanochannels. <i>ACS Nano</i> , 2010, 4, 3817-3822.	7.3	187
12	Hyaluronate-Gold Nanoparticle/Tocilizumab Complex for the Treatment of Rheumatoid Arthritis. <i>ACS Nano</i> , 2014, 8, 4790-4798.	7.3	178
13	Bioabsorbable polymer optical waveguides for deep-tissue photomedicine. <i>Nature Communications</i> , 2016, 7, 10374.	5.8	173
14	Mechanical properties and degradation behaviors of hyaluronic acid hydrogels cross-linked at various cross-linking densities. <i>Carbohydrate Polymers</i> , 2007, 70, 251-257.	5.1	166
15	Production of poly(3-hydroxybutyrate) by high cell density fed-batch culture of <i>Alcaligenes eutrophus</i> with phosphate limitation. , 1997, 55, 28-32.		162
16	Bioimaging of Hyaluronic Acid Derivatives Using Nanosized Carbon Dots. <i>Biomacromolecules</i> , 2012, 13, 2554-2561.	2.6	162
17	Target Specific Intracellular Delivery of siRNA/PEI-HA Complex by Receptor Mediated Endocytosis. <i>Molecular Pharmaceutics</i> , 2009, 6, 727-737.	2.3	159
18	Hyaluronic Acid-Quantum Dot Conjugates for In Vivo Lymphatic Vessel Imaging. <i>ACS Nano</i> , 2009, 3, 1389-1398.	7.3	157

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19	Photonic hydrogel sensors. <i>Biotechnology Advances</i> , 2016, 34, 250-271.	6.0	157
20	Hyaluronic Acid-Gold Nanoparticle/Interferon β Complex for Targeted Treatment of Hepatitis C Virus Infection. <i>ACS Nano</i> , 2012, 6, 9522-9531.	7.3	149
21	Target-Specific Gene Silencing of Layer-by-Layer Assembled Gold-Cysteamine/siRNA/PEI/HA Nanocomplex. <i>ACS Nano</i> , 2011, 5, 6138-6147.	7.3	145
22	Hyaluronic acid-polyethyleneimine conjugate for target specific intracellular delivery of siRNA. <i>Biopolymers</i> , 2008, 89, 635-642.	1.2	141
23	Hyaluronate and its derivatives for customized biomedical applications. <i>Biomaterials</i> , 2017, 123, 155-171.	5.7	139
24	Biodegradable Nitrogen-Doped Carbon Nanodots for Non-Invasive Photoacoustic Imaging and Photothermal Therapy. <i>Theranostics</i> , 2016, 6, 2196-2208.	4.6	138
25	Multifunctional Photonic Nanomaterials for Diagnostic, Therapeutic, and Theranostic Applications. <i>Advanced Materials</i> , 2018, 30, 1701460.	11.1	137
26	Development of a novel sustained release formulation of recombinant human growth hormone using sodium hyaluronate microparticles. <i>Journal of Controlled Release</i> , 2005, 104, 323-335.	4.8	135
27	Electrical detection of VEGFs for cancer diagnoses using anti-vascular endothelial growth factor aptamer-modified Si nanowire FETs. <i>Biosensors and Bioelectronics</i> , 2009, 24, 1801-1805.	5.3	133
28	Bioimaging for Targeted Delivery of Hyaluronic Acid Derivatives to the Livers in Cirrhotic Mice Using Quantum Dots. <i>ACS Nano</i> , 2010, 4, 3005-3014.	7.3	127
29	Target specific tumor treatment by VEGF siRNA complexed with reducible polyethyleneimine-hyaluronic acid conjugate. <i>Biomaterials</i> , 2010, 31, 5258-5265.	5.7	125
30	Injectable hyaluronic acid-tyramine hydrogels for the treatment of rheumatoid arthritis. <i>Acta Biomaterialia</i> , 2011, 7, 666-674.	4.1	114
31	Photodynamic therapy of melanoma skin cancer using carbon dot-chlorin e6-hyaluronate conjugate. <i>Acta Biomaterialia</i> , 2015, 26, 295-305.	4.1	110
32	Effect of Cross-Linking Reagents for Hyaluronic Acid Hydrogel Dermal Fillers on Tissue Augmentation and Regeneration. <i>Bioconjugate Chemistry</i> , 2010, 21, 240-247.	1.8	109
33	The Topographic Effect of Zinc Oxide Nanoflowers on Osteoblast Growth and Osseointegration. <i>Advanced Materials</i> , 2010, 22, 4857-4861.	11.1	107
34	Transdermal delivery of hyaluronic acid-Human growth hormone conjugate. <i>Biomaterials</i> , 2012, 33, 5947-5954.	5.7	103
35	3D Tissue Engineered Supramolecular Hydrogels for Controlled Chondrogenesis of Human Mesenchymal Stem Cells. <i>Biomacromolecules</i> , 2014, 15, 707-714.	2.6	102
36	Anti-inflammatory drug delivery from hyaluronic acid hydrogels. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2004, 15, 1111-1119.	1.9	98

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37	Solid Free-Form Fabrication of Tissue-Engineering Scaffolds with a Poly(lactic-co-glycolic acid) Grafted Hyaluronic Acid Conjugate Encapsulating an Intact Bone Morphogenetic Protein-2/Poly(ethylene) Terephthalate. <i>Journal of Materials: Materials in Medicine</i> , 2014, 5, 1078-1084.	10.784	314
38	Application of microstereolithography in the development of three-dimensional cartilage regeneration scaffolds. <i>Biomedical Microdevices</i> , 2008, 10, 233-241.	1.4	92
39	Urease-Powered Polydopamine Nanomotors for Intravesical Therapy of Bladder Diseases. <i>ACS Nano</i> , 2020, 14, 6683-6692.	7.3	88
40	Guided bone regeneration by poly(lactic-co-glycolic acid) grafted hyaluronic acid bi-layer films for periodontal barrier applications. <i>Acta Biomaterialia</i> , 2009, 5, 3394-3403.	4.1	86
41	Synthesis and degradation test of hyaluronic acid hydrogels. <i>International Journal of Biological Macromolecules</i> , 2007, 40, 374-380.	3.6	85
42	Control of the molecular degradation of hyaluronic acid hydrogels for tissue augmentation. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 86A, 685-693.	2.1	85
43	Hyaluronate-Epidermal Growth Factor Conjugate for Skin Wound Healing and Regeneration. <i>Biomacromolecules</i> , 2016, 17, 3694-3705.	2.6	84
44	Surface Modification of Multipass Caliber-Rolled Ti Alloy with Dexamethasone-Loaded Graphene for Dental Applications. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9598-9607.	4.0	82
45	Upconversion Nanoparticles/Hyaluronate-Rose Bengal Conjugate Complex for Noninvasive Photochemical Tissue Bonding. <i>ACS Nano</i> , 2017, 11, 9979-9988.	7.3	81
46	The fabrication, characterization and application of aptamer-functionalized Si-nanowire FET biosensors. <i>Nanotechnology</i> , 2009, 20, 235501.	1.3	76
47	Long acting hyaluronate-exendin 4 conjugate for the treatment of type 2 diabetes. <i>Biomaterials</i> , 2010, 31, 4121-4128.	5.7	73
48	Bioluminescence-Activated Deep-Tissue Photodynamic Therapy of Cancer. <i>Theranostics</i> , 2015, 5, 805-817.	4.6	72
49	Biodegradable Photonic Melanoidin for Theranostic Applications. <i>ACS Nano</i> , 2016, 10, 822-831.	7.3	69
50	In vivo real-time bioimaging of hyaluronic acid derivatives using quantum dots. <i>Biopolymers</i> , 2008, 89, 1144-1153.	1.2	67
51	In Vivo Photoacoustic Imaging of Livers Using Biodegradable Hyaluronic Acid-Conjugated Silica Nanoparticles. <i>Advanced Functional Materials</i> , 2018, 28, 1800941.	7.8	66
52	Hyaluronic Acid Derivatives for Translational Medicines. <i>Biomacromolecules</i> , 2019, 20, 2889-2903.	2.6	66
53	Sustained release formulation of erythropoietin using hyaluronic acid hydrogels crosslinked by Michael addition. <i>International Journal of Pharmaceutics</i> , 2006, 322, 44-51.	2.6	64
54	Cationic solid lipid nanoparticles derived from apolipoprotein-free LDLs for target specific systemic treatment of liver fibrosis. <i>Biomaterials</i> , 2013, 34, 542-551.	5.7	64

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55	Light-Guided Nanomotor Systems for Autonomous Photothermal Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 2338-2346.	4.0	64
56	Microneedle Biosensor for Real-time Electrical Detection of Nitric Oxide for In Situ Cancer Diagnosis During Endomicroscopy. <i>Advanced Healthcare Materials</i> , 2015, 4, 1153-1158.	3.9	63
57	Supramolecular Hydrogels for Long-term Bioengineered Stem Cell Therapy. <i>Advanced Healthcare Materials</i> , 2015, 4, 237-244.	3.9	62
58	Theranostic systems assembled in situ on demand by host-guest chemistry. <i>Biomaterials</i> , 2011, 32, 7687-7694.	5.7	60
59	Anti-Flt1 peptide-hyaluronate conjugate for the treatment of retinal neovascularization and diabetic retinopathy. <i>Biomaterials</i> , 2011, 32, 3115-3123.	5.7	59
60	Systemic PEGylated TRAIL treatment ameliorates liver cirrhosis in rats by eliminating activated hepatic stellate cells. <i>Hepatology</i> , 2016, 64, 209-223.	3.6	59
61	Target specific systemic delivery of TGF- β 2 siRNA/(PEI-SS)-g-HA complex for the treatment of liver cirrhosis. <i>Biomaterials</i> , 2011, 32, 4951-4958.	5.7	58
62	Synthesis, characterization, and preliminary assessment of anti-Flt1 peptide-hyaluronate conjugate for the treatment of corneal neovascularization. <i>Biomaterials</i> , 2009, 30, 6026-6034.	5.7	55
63	Characterization and In Vivo Study of Sustained-Release Formulation of Human Growth Hormone Using Sodium Hyaluronate. <i>Pharmaceutical Research</i> , 2004, 21, 1374-1381.	1.7	54
64	Drug-eluting contact lens containing cyclosporine-loaded cholesterol-hyaluronate micelles for dry eye syndrome. <i>RSC Advances</i> , 2019, 9, 16578-16585.	1.7	54
65	Nano graphene oxide-hyaluronic acid conjugate for target specific cancer drug delivery. <i>RSC Advances</i> , 2014, 4, 14197.	1.7	52
66	Noninvasive Transdermal Vaccination Using Hyaluronan Nanocarriers and Laser Adjuvant. <i>Advanced Functional Materials</i> , 2016, 26, 2512-2522.	7.8	52
67	Target specific hyaluronic acid-interferon alpha conjugate for the treatment of hepatitis C virus infection. <i>Biomaterials</i> , 2011, 32, 8722-8729.	5.7	51
68	Selectively crosslinked hyaluronic acid hydrogels for sustained release formulation of erythropoietin. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 78A, 459-465.	2.1	50
69	Bimetallic Nanocatalysts Immobilized in Nanoporous Hydrogels for Long-term Robust Continuous Glucose Monitoring of Smart Contact Lens. <i>Advanced Materials</i> , 2022, 34, e2110536.	11.1	48
70	Bioorthogonal Click Chemistry-Based Synthetic Cell Glue. <i>Small</i> , 2015, 11, 6458-6466.	5.2	47
71	Real-time, step-wise, electrical detection of protein molecules using dielectrophoretically aligned SWNT-film FET aptasensors. <i>Lab on A Chip</i> , 2010, 10, 2052.	3.1	46
72	Flt1 peptide-hyaluronate conjugate micelle-like nanoparticles encapsulating genistein for the treatment of ocular neovascularization. <i>Acta Biomaterialia</i> , 2012, 8, 3932-3940.	4.1	46

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73	The recovery of poly(3-hydroxybutyrate) by using dispersions of sodium hypochlorite solution and chloroform. <i>Biotechnology Letters</i> , 1993, 7, 209-212.	0.5	45
74	Cationic derivatives of biocompatible hyaluronic acids for delivery of siRNA and antisense oligonucleotides. <i>Journal of Drug Targeting</i> , 2009, 17, 123-132.	2.1	45
75	Biodegradable Microneedle Patch Delivering Antigenic Peptide-Hyaluronate Conjugate for Cancer Immunotherapy. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 5150-5158.	2.6	45
76	Reducible Hyaluronic Acid-siRNA Conjugate for Target Specific Gene Silencing. <i>Bioconjugate Chemistry</i> , 2013, 24, 1201-1209.	1.8	44
77	Hyaluronic acid-tumor necrosis factor-related apoptosis-inducing ligand conjugate for targeted treatment of liver fibrosis. <i>Acta Biomaterialia</i> , 2015, 12, 174-182.	4.1	43
78	DNA/PEI/Alginate polyplex as an efficient in vivo gene delivery system. <i>Biotechnology and Bioengineering</i> , 2007, 12, 684-689.	1.4	42
79	Hyaluronate-Gold Nanoparticle/Glucose Oxidase Complex for Highly Sensitive Wireless Noninvasive Glucose Sensors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37347-37356.	4.0	42
80	Signal Transduction of Hyaluronic Acid-Peptide Conjugate for Formyl Peptide Receptor Like 1 Receptor. <i>Bioconjugate Chemistry</i> , 2008, 19, 2401-2408.	1.8	39
81	Effect of Thermal Degradation of SFF-Based PLGA Scaffolds Fabricated Using a Multi-head Deposition System Followed by Change of Cell Growth Rate. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010, 21, 1069-1080.	1.9	38
82	Luciferase-Rose Bengal conjugates for singlet oxygen generation by bioluminescence resonance energy transfer. <i>Chemical Communications</i> , 2017, 53, 4569-4572.	2.2	38
83	Flexible wireless powered drug delivery system for targeted administration on cerebral cortex. <i>Nano Energy</i> , 2018, 51, 102-112.	8.2	37
84	Injectable hyaluronic acid microhydrogels for controlled release formulation of erythropoietin. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 80A, 916-924.	2.1	35
85	Hyaluronate-Gold Nanorod/DR5 Antibody Complex for Noninvasive Theranosis of Skin Cancer. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32202-32210.	4.0	35
86	Bioinspired urease-powered micromotor as an active oral drug delivery carrier in stomach. <i>Bioactive Materials</i> , 2022, 9, 54-62.	8.6	35
87	Noncovalently PEGylated CTGF siRNA/PDMAEMA complex for pulmonary treatment of bleomycin-induced lung fibrosis. <i>Biomaterials</i> , 2013, 34, 1261-1269.	5.7	33
88	Targeted Hyaluronate-Hollow Gold Nanosphere Conjugate for Anti-Obesity Photothermal Lipolysis. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 3646-3653.	2.6	33
89	Nanoscale graphene coating on commercially pure titanium for accelerated bone regeneration. <i>RSC Advances</i> , 2016, 6, 26719-26724.	1.7	32
90	Bioimaging and pulmonary applications of self-assembled Flt1 peptide-hyaluronic acid conjugate nanoparticles. <i>Biomaterials</i> , 2013, 34, 8478-8490.	5.7	31

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91	Dual-Color-Emitting Carbon Nanodots for Multicolor Bioimaging and Optogenetic Control of Ion Channels. <i>Advanced Science</i> , 2017, 4, 1700325.	5.6	31
92	Effect of hyaluronic acid molecular weight on the morphology of quantum dot-hyaluronic acid conjugates. <i>International Journal of Biological Macromolecules</i> , 2008, 42, 41-45.	3.6	30
93	A Smart Contact Lens Controller IC Supporting Dual-Mode Telemetry With Wireless-Powered Backscattering LSK and EM-Radiated RF Transmission Using a Single-Loop Antenna. <i>IEEE Journal of Solid-State Circuits</i> , 2020, 55, 856-867.	3.5	30
94	Molecular design of hyaluronic acid hydrogel networks for long-term controlled delivery of human growth hormone. <i>Soft Matter</i> , 2011, 7, 868.	1.2	28
95	Multifunctional micro/nanomotors as an emerging platform for smart healthcare applications. <i>Biomaterials</i> , 2021, 279, 121201.	5.7	28
96	Superior Pre-Osteoblast Cell Response of Etched Ultrafine-Grained Titanium with a Controlled Crystallographic Orientation. <i>Scientific Reports</i> , 2017, 7, 44213.	1.6	27
97	Enhancing the transdermal penetration of nanoconstructs: could hyaluronic acid be the key?. <i>Nanomedicine</i> , 2014, 9, 743-745.	1.7	26
98	Synergistic effects of hyaluronate-hyaluronic acid epidermal growth factor conjugate patch on chronic wound healing. <i>Biomaterials Science</i> , 2018, 6, 1020-1030.	2.6	26
99	Multimodal Cancer Theranosis Using Hyaluronate-Conjugated Molybdenum Disulfide. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801036.	3.9	26
100	Preparation and characterization of biocompatible polyelectrolyte complex multilayer of hyaluronic acid and poly-L-lysine. <i>International Journal of Biological Macromolecules</i> , 2005, 37, 227-231.	3.6	25
101	Tocilizumab-Alendronate Conjugate for Treatment of Rheumatoid Arthritis. <i>Bioconjugate Chemistry</i> , 2017, 28, 1084-1092.	1.8	25
102	Multifunctional Nanodroplets Encapsulating Naphthalocyanine and Perfluorohexane for Bimodal Image-Guided Therapy. <i>Biomacromolecules</i> , 2019, 20, 3767-3777.	2.6	25
103	Supramolecular Injectable Hyaluronate Hydrogels for Cartilage Tissue Regeneration. <i>ACS Applied Bio Materials</i> , 2020, 3, 5040-5047.	2.3	25
104	Effect of osteoconductive hyaluronate hydrogels on calvarial bone regeneration. <i>Biomaterials Research</i> , 2014, 18, 8.	3.2	24
105	Multifunctional hyaluronate-nanoparticle hybrid systems for diagnostic, therapeutic and theranostic applications. <i>Journal of Controlled Release</i> , 2019, 303, 55-66.	4.8	24
106	Smart Contact Lenses with a Transparent Silver Nanowire Strain Sensor for Continuous Intraocular Pressure Monitoring. <i>ACS Applied Bio Materials</i> , 2021, 4, 4532-4541.	2.3	24
107	Supramolecular host-guest hyaluronic acid hydrogels enhance corneal wound healing through dynamic spatiotemporal effects. <i>Ocular Surface</i> , 2022, 23, 148-161.	2.2	24
108	Multimerized siRNA Cross-linked by Gold Nanoparticles. <i>Bioconjugate Chemistry</i> , 2011, 22, 1962-1969.	1.8	23

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109	In vivo real-time confocal microscopy for target-specific delivery of hyaluronic acid-quantum dot conjugates. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012, 8, 1070-1073.	1.7	23
110	Gold half-shell coated hyaluronic acid-doxorubicin conjugate micelles for theranostic applications. <i>Macromolecular Research</i> , 2012, 20, 277-282.	1.0	23
111	Dissolving microneedles delivering cancer cell membrane coated nanoparticles for cancer immunotherapy. <i>RSC Advances</i> , 2021, 11, 10393-10399.	1.7	22
112	Smart Wireless Near-Infrared Light Emitting Contact Lens for the Treatment of Diabetic Retinopathy. <i>Advanced Science</i> , 2022, 9, e2103254.	5.6	22
113	Anti-calcification of bovine pericardium for bioprosthetic heart valves after surface modification with hyaluronic acid derivatives. <i>Biotechnology and Bioprocess Engineering</i> , 2005, 10, 218-224.	1.4	21
114	Self-assembled complex of probe peptide α -E. Coli RNA I conjugate and nano graphene oxide for apoptosis diagnosis. <i>Biomaterials</i> , 2012, 33, 7556-7564.	5.7	21
115	Genetically engineered mesenchymal stem cell therapy using self-assembling supramolecular hydrogels. <i>Journal of Controlled Release</i> , 2015, 220, 119-129.	4.8	21
116	Self-adjuvanted hyaluronate α -antigenic peptide conjugate for transdermal treatment of muscular dystrophy. <i>Biomaterials</i> , 2016, 81, 93-103.	5.7	21
117	A thermogravimetric analysis for poly(3-hydroxybutyrate) quantification. <i>Biotechnology Letters</i> , 1995, 9, 873-878.	0.5	20
118	Bioimaging of Hyaluronate α -Interferon γ Conjugates Using a Non-Interfering Zwitterionic Fluorophore. <i>Biomacromolecules</i> , 2015, 16, 3054-3061.	2.6	20
119	Degradable Nanomotors Using Platinum Deposited Complex of Calcium Carbonate and Hyaluronate Nanogels for Targeted Drug Delivery. <i>Particle and Particle Systems Characterization</i> , 2020, 37, 1900418.	1.2	20
120	Biocompatible Organosilica Nanoparticles with Self-Encapsulated Phenyl Motifs for Effective UV Protection. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 9062-9069.	4.0	20
121	Nose-to-brain delivery of hyaluronate α -FG loop peptide conjugate for non-invasive hypoxic-ischemic encephalopathy therapy. <i>Journal of Controlled Release</i> , 2019, 307, 76-89.	4.8	19
122	Facile Surface Modification and Application of Temperature Responsive Poly(<i>N</i> -isopropylacrylamide-co- <i>N</i> -dopamine methacrylamide). <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 2130-2135.	1.1	18
123	Upconversion nanoparticles coated organic photovoltaics for near infrared light controlled drug delivery systems. <i>Nano Energy</i> , 2021, 81, 105650.	8.2	18
124	Emerging Phospholipid Nanobiomaterials for Biomedical Applications to Lab-on-a-Chip, Drug Delivery, and Cellular Engineering. <i>ACS Applied Bio Materials</i> , 2021, 4, 8110-8128.	2.3	17
125	Characterization of biocompatible polyelectrolyte complex multilayer of hyaluronic acid and poly-L-lysine. <i>Biotechnology and Bioprocess Engineering</i> , 2004, 9, 179-183.	1.4	15
126	Controlled Detachment of Chemically Glued Cells. <i>Bioconjugate Chemistry</i> , 2016, 27, 2601-2604.	1.8	15

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127	Smart Microbubble Eluting Theranostic Stent for Noninvasive Ultrasound Imaging and Prevention of Restenosis. <i>Small</i> , 2017, 13, 1602925.	5.2	15
128	Molybdenum Disulfide Surface Modification of Ultrafine-Grained Titanium for Enhanced Cellular Growth and Antibacterial Effect. <i>Scientific Reports</i> , 2018, 8, 9907.	1.6	14
129	The lysis of gram-negative <i>Alcaligenes eutrophus</i> and <i>Alcaligenes latus</i> by palmitoyl carnitine. <i>Biotechnology Letters</i> , 1993, 7, 295-300.	0.5	13
130	Synchrotron X-Ray Bioimaging of Bone Regeneration by Artificial Bone Substitute of MegaGen Synthetic Bone and Hyaluronate Hydrogels. <i>Tissue Engineering - Part C: Methods</i> , 2010, 16, 1059-1068.	1.1	13
131	Improved synthesis of hyaluronic acid hydrogel and its effect on tissue augmentation. <i>Journal of Biomaterials Applications</i> , 2012, 27, 179-186.	1.2	13
132	Defect-Induced Fluorescence of Silica Nanoparticles for Bioimaging Applications. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 44247-44256.	4.0	13
133	Targeted systemic mesenchymal stem cell delivery using hyaluronate "wheat germ agglutinin conjugate. <i>Biomaterials</i> , 2016, 106, 217-227.	5.7	12
134	Biomimetic Supramolecular Drug Delivery Hydrogels for Accelerated Skin Tissue Regeneration. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 4581-4590.	2.6	11
135	Upconversion nanomaterials and delivery systems for smart photonic medicines and healthcare devices. <i>Advanced Drug Delivery Reviews</i> , 2022, 188, 114419.	6.6	11
136	Comparison and optimization of poly(3-hydroxybutyrate) recovery from <i>Alcaligenes eutrophus</i> and recombinant <i>Escherichia coli</i> . <i>Korean Journal of Chemical Engineering</i> , 1998, 15, 51-55.	1.2	10
137	Non-Invasive Topical Drug-Delivery System Using Hyaluronate Nanogels Crosslinked via Click Chemistry. <i>Materials</i> , 2021, 14, 1504.	1.3	10
138	Hyaluronic acid"siRNA conjugates complexed with cationic solid lipid nanoparticles for target specific gene silencing. <i>RSC Advances</i> , 2014, 4, 19338-19344.	1.7	9
139	Characterization of PEGylated Anti-VEGF aptamers using surface plasmon resonance. <i>Macromolecular Research</i> , 2008, 16, 182-184.	1.0	8
140	Hyaluronate "parathyroid hormone peptide conjugate for transdermal treatment of osteoporosis. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2018, 29, 793-804.	1.9	8
141	Biocompatible Magnesium Implant Double-Coated with Dexamethasone-Loaded Black Phosphorus and Poly(lactide-co-glycolide). <i>ACS Applied Bio Materials</i> , 2020, 3, 8879-8889.	2.3	8
142	Two-photon microscopy of a Flt1 peptide"hyaluronate conjugate. <i>Nanomedicine</i> , 2015, 10, 2315-2324.	1.7	7
143	Bioimaging of botulinum toxin and hyaluronate hydrogels using zwitterionic near-infrared fluorophores. <i>Biomaterials Research</i> , 2017, 21, 15.	3.2	7
144	Hyaluronate/black phosphorus complexes as a copper chelating agent for Wilson disease treatment. <i>Biomaterials Research</i> , 2021, 25, 20.	3.2	7

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145	Smart contact lens containing hyaluronate-rose bengal conjugate for biophotonic myopia vision correction. <i>Biomaterials Science</i> , 2022, 10, 4997-5005.	2.6	7
146	Anti-coagulating hydroxyethyl starch blended with hyaluronic acid as a novel post-surgical adhesion barrier. <i>Macromolecular Research</i> , 2010, 18, 1076-1080.	1.0	6
147	Hyaluronate-Fit1 peptide conjugate/epirubicin micelles for theranostic application to liver cancers. <i>RSC Advances</i> , 2015, 5, 48615-48618.	1.7	6
148	Hyaluronate-Death Receptor 5 Antibody Conjugates for Targeted Treatment of Liver Metastasis. <i>Biomacromolecules</i> , 2016, 17, 3085-3093.	2.6	6
149	Supramolecular hydrogels encapsulating bioengineered mesenchymal stem cells for ischemic therapy. <i>RSC Advances</i> , 2018, 8, 18771-18775.	1.7	6
150	Radiative and Non-Radiative Decay Pathways in Carbon Nanodots toward Bioimaging and Photodynamic Therapy. <i>Nanomaterials</i> , 2022, 12, 70.	1.9	6
151	Development of the flow behavior model for 3D scaffold fabrication in the polymer deposition process by a heating method. <i>Journal of Micromechanics and Microengineering</i> , 2009, 19, 105003.	1.5	5
152	Cancer Detection: Microneedle Biosensor for Real-Time Electrical Detection of Nitric Oxide for In Situ Cancer Diagnosis During Endomicroscopy (Adv. Healthcare Mater. 8/2015). <i>Advanced Healthcare Materials</i> , 2015, 4, 1152-1152.	3.9	5
153	Hyaluronate-Peanut Agglutinin Conjugates for Target-Specific Bioimaging of Colon Cancer. <i>Bioconjugate Chemistry</i> , 2017, 28, 1434-1442.	1.8	5
154	Electroceutical Residue-Free Graphene Device for Dopamine Monitoring and Neural Stimulation. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 2013-2020.	2.6	5
155	Three-Dimensional Tungsten Disulfide Raman Biosensor for Dopamine Detection. <i>ACS Applied Bio Materials</i> , 2020, 3, 7687-7695.	2.3	5
156	Fluorescent nanodiamond-hyaluronate conjugates for target-specific molecular imaging. <i>RSC Advances</i> , 2021, 11, 23073-23081.	1.7	5
157	Spectromicroscopic observation of a live single cell in a biocompatible liquid-enclosing graphene system. <i>Nanoscale</i> , 2018, 10, 150-157.	2.8	4
158	Multispectral upconversion nanoparticles for near infrared encoding of wearable devices. <i>RSC Advances</i> , 2021, 11, 21897-21903.	1.7	4
159	Bimetallic Nanocatalysts Immobilized in Nanoporous Hydrogels for Long-Term Robust Continuous Glucose Monitoring of Smart Contact Lens (Adv. Mater. 18/2022). <i>Advanced Materials</i> , 2022, 34, .	11.1	4
160	Hyaluronate modified upconversion nanoparticles for near infrared light-triggered on/off tattoo systems. <i>RSC Advances</i> , 2017, 7, 14805-14808.	1.7	3
161	A Novel Branch-Type PEGylation of Aptamer Therapeutics. <i>Key Engineering Materials</i> , 2007, 342-343, 529-532.	0.4	2
162	Temperature-dependent location of a weakly segregated block copolymer in binary blends of block copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 470-476.	2.4	2

#	ARTICLE	IF	CITATIONS
163	Controlled growth of fluorescent silica nanoparticles using two-phase orthogonal solvents for bioimaging. <i>Journal of Luminescence</i> , 2019, 214, 116529.	1.5	2
164	Cell Adhesion: Bioorthogonal Click Chemistry-Based Synthetic Cell Glue(<i>Small</i> 48/2015). <i>Small</i> , 2015, 11, 6457-6457.	5.2	1
165	Bioimaging: In Vivo Photoacoustic Imaging of Livers Using Biodegradable Hyaluronic Acid-Conjugated Silica Nanoparticles (<i>Adv. Funct. Mater.</i> 22/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870153.	7.8	1
166	Cancer Theranosis: Multimodal Cancer Theranosis Using Hyaluronate-Conjugated Molybdenum Disulfide (<i>Adv. Healthcare Mater.</i> 1/2019). <i>Advanced Healthcare Materials</i> , 2019, 8, 1970002.	3.9	1
167	Production of poly(3-hydroxybutyrate) by high cell density fed-batch culture of <i>Alcaligenes eutrophus</i> with phosphate limitation. <i>Biotechnology and Bioengineering</i> , 1997, 55, 28-32.	1.7	1
168	Artificial Bone Substitute of MCSB and Hyaluronate Hydrogels. <i>Bioceramics Development and Applications</i> , 2011, 1, 1-4.	0.3	1
169	A Novel Degradation Controlled Hyaluronic Acid Derivatives. <i>Key Engineering Materials</i> , 2007, 342-343, 525-528.	0.4	0
170	Real-time bioimaging of hyaluronic acid derivatives using quantum dots for biopharmaceutical delivery applications. , 2010, , .		0
171	Stem Cells: Supramolecular Hydrogels for Long-Term Bioengineered Stem Cell Therapy (<i>Adv. Tj ETQq1</i> 1 0.784314 rgBT /Overlock 10)	3.9	0
172	Vaccines: Noninvasive Transdermal Vaccination Using Hyaluronan Nanocarriers and Laser Adjuvant (<i>Adv. Funct. Mater.</i> 15/2016). <i>Advanced Functional Materials</i> , 2016, 26, 2511-2511.	7.8	0
173	Smart photonic materials for theranostic applications. , 2017, , .		0
174	Carbon Nanodots: Dual-Color-Emitting Carbon Nanodots for Multicolor Bioimaging and Optogenetic Control of Ion Channels (<i>Adv. Sci.</i> 11/2017). <i>Advanced Science</i> , 2017, 4, .	5.6	0
175	Advanced materials and devices for medical applications. <i>APL Materials</i> , 2021, 9, .	2.2	0
176	In vivo photoacoustic monitoring of anti-obesity photothermal lipolysis. , 2018, , .		0