Sung-Wook Choi

List of Publications by Year
in descending order

80 papers	2,464 citations	236925 25 h-index	206112 48 g-index
85 all docs	85 docs citations	85 times ranked	3952 citing authors

#	Article	IF	Citations
1	A Temperatureâ€Sensitive Drug Release System Based on Phaseâ€Change Materials. Angewandte Chemie - International Edition, 2010, 49, 7904-7908.	13.8	211
2	Design of surface-modified poly(d,l-lactide-co-glycolide) nanoparticles for targeted drug delivery to bone. Journal of Controlled Release, 2007, 122, 24-30.	9.9	179
3	Chitosanâ€Based Inverse Opals: Threeâ€Dimensional Scaffolds with Uniform Pore Structures for Cell Culture. Advanced Materials, 2009, 21, 2997-3001.	21.0	168
4	Three-Dimensional Scaffolds for Tissue Engineering: The Importance of Uniformity in Pore Size and Structure. Langmuir, 2010, 26, 19001-19006.	3.5	125
5	Fabrication of Microbeads with a Controllable Hollow Interior and Porous Wall Using a Capillary Fluidic Device. Advanced Functional Materials, 2009, 19, 2943-2949.	14.9	118
6	Neovascularization in Biodegradable Inverse Opal Scaffolds with Uniform and Precisely Controlled Pore Sizes. Advanced Healthcare Materials, 2013, 2, 145-154.	7.6	117
7	Preparation of Uniform Microspheres Using a Simple Fluidic Device and Their Crystallization into Closeâ€Packed Lattices. Small, 2009, 5, 454-459.	10.0	91
8	Bone-targeted delivery of nanodiamond-based drug carriers conjugated with alendronate for potential osteoporosis treatment. Journal of Controlled Release, 2016, 232, 152-160.	9.9	72
9	In Vitro Mineralization by Preosteoblasts in Poly(<scp>dl</scp>-lactide-<i>co</i>-glycolide) Inverse Opal Scaffolds Reinforced with Hydroxyapatite Nanoparticles. Langmuir, 2010, 26, 12126-12131.	3.5	71
10	Uniform Beads with Controllable Pore Sizes for Biomedical Applications. Small, 2010, 6, 1492-1498.	10.0	70
11	Thermodynamic parameters on poly(d,l-lactide-co-glycolide) particle size in emulsificationâ€“diffusion process. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 201, 283-289.	4.7	69
12	Biodegradable porous beads and their potential applications in regenerative medicine. Journal of Materials Chemistry, 2012, 22, 11442.	6.7	66
13	Native chitosan/cellulose composite fibers from an ionic liquid via electrospinning. Macromolecular Research, 2011, 19, 213-215.	2.4	59
14	Fabrication of a BMP-2-immobilized porous microsphere modified by heparin for bone tissue engineering. Colloids and Surfaces B: Biointerfaces, 2015, 134, 453-460.	5.0	59
15	Inverse opal scaffolds for applications in regenerative medicine. Soft Matter, 2013, 9, 9747.	2.7	58
16	Fabrication of cross-linked alginate beads using electrospraying for adenovirus delivery. International Journal of Pharmaceutics, 2012, 427, 417-425.	5.2	57
17	Selective Photothermal Tumor Therapy Using Nanodiamondâ€Based Nanoclusters with Folic Acid. Advanced Functional Materials, 2016, 26, 6428-6436.	14.9	50
18	Multifunctional Magnetic Nanoparticles Modified with Polyethylenimine and Folic Acid for Biomedical Theranostics. Langmuir, 2013, 29, 5962-5967.	3.5	43

#	Article	IF	Citations
19	Effect of lactoferrin-impregnated porous poly(lactide-co-glycolide) (PLGA) microspheres on osteogenic differentiation of rabbit adipose-derived stem cells (rADSCs). Colloids and Surfaces B: Biointerfaces, 2014, 122, 457-464.	5.0	42
20	Photodynamic and photothermal tumor therapy using phase-change material nanoparticles containing chlorin e6 and nanodiamonds. Journal of Controlled Release, 2018, 270, 237-245.	9.9	42
21	Anti-inflammatory effects of sodium alginate/gelatine porous scaffolds merged with fucoidan in murine microglial BV2 cells. International Journal of Biological Macromolecules, 2016, 93, 1620-1632.	7.5	35
22	Waterborne trifunctionalsilaneâ€terminated polyurethane nanocomposite with silaneâ€modified clay. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 2747-2761.	2.1	27
23	Effect of flow rates of the continuous phase on droplet size in dripping and jetting regimes in a simple fluidic device for coaxial flow. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 454, 84-88.	4.7	27
24	Alendronate-modified hydroxyapatite nanoparticles for bone-specific dual delivery of drug and bone mineral. Macromolecular Research, 2016, 24, 623-628.	2.4	27
25	Uniform polydimethylsiloxane beads coated with polydopamine and their potential biomedical applications. Colloids and Surfaces B: Biointerfaces, 2014, 121, 395-399.	5.0	26
26	Osteogenesis and new bone formation of alendronate-immobilized porous PLGA microspheres in a rat calvarial defect model. Journal of Industrial and Engineering Chemistry, 2017, 52, 277-286.	5.8	26
27	Cellular Uptake Behavior of Doxorubicinâ€Conjugated Nanodiamond Clusters for Efficient Cancer Therapy. Macromolecular Bioscience, 2015, 15, 1469-1475.	4.1	25
28	Entrapment of Protein Using Electrosprayed Poly(<scp>d,l</scp>â€lactideâ€<i>co</i>â€glycolide) Microspheres with a Porous Structure for Sustained Release. Macromolecular Rapid Communications, 2014, 35, 1033-1038.	3.9	24
29	Targeted Tumor Therapy Based on Nanodiamonds Decorated with Doxorubicin and Folic Acid. Macromolecular Bioscience, 2017, 17, 1600180.	4.1	21
30	Uniform tricalcium phosphate beads with an open porous structure for tissue engineering. Colloids and Surfaces B: Biointerfaces, 2013, 112, 368-373.	5.0	19
31	Polyaniline-grafted nanodiamonds for efficient photothermal tumor therapy. Colloids and Surfaces B: Biointerfaces, 2019, 180, 273-280.	5.0	19
32	Fabrication of levofloxacin-loaded nanofibrous scaffolds using coaxial electrospinning. Journal of Pharmaceutical Investigation, 2012, 42, 89-93.	5.3	18
33	Fabrication of nano-scale liposomes containing doxorubicin using Shirasu porous glass membrane. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 392, 250-255.	4.7	17
34	Synthesis and microphase separation of biodegradable poly(Îµ-caprolactone)-poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 T	2.4	16
35	Photoluminescent synthetic wood fibers from an ionic liquid via electrospinning. Macromolecular Research, 2011, 19, 317-321.	2.4	16
36	A Facile Method for the Preparation of Monodisperse Beads with Uniform Pore Sizes for Cell Culture. Macromolecular Rapid Communications, 2013, 34, 399-405.	3.9	16

#	Article	IF	Citations
37	Fabrication and optimization of Nanodiamonds-composited poly(Îµ-caprolactone) fibrous matrices for potential regeneration of hard tissues. Biomaterials Research, 2018, 22, 16.	6.9	15
38	Fabrication of dihydroxyflavone-conjugated hyaluronic acid nanogels for targeted antitumoral effect. Colloids and Surfaces B: Biointerfaces, 2018, 171, 690-697.	5.0	15
39	Core-shell poly(d,l-lactide-co-glycolide)/poly(ethyl 2-cyanoacrylate) microparticles with doxorubicin to reduce initial burst release. Macromolecular Research, 2009, 17, 1010-1014.	2.4	13
40	Alginate hydrogel embedding poly(D,L-lactide-co-glycolide) porous scaffold disks for cartilage tissue engineering. Macromolecular Research, 2012, 20, 447-452.	2.4	13
41	In Vitro Inhibition of Human UDP-Glucuronosyl-Transferase (UGT) Isoforms by Astaxanthin, Î²-Cryptoxanthin, Canthaxanthin, Lutein, and Zeaxanthin: Prediction of in Vivo Dietary Supplement-Drug Interactions. Molecules, 2016, 21, 1052.	3.8	12
42	A heptameric peptide isolated from the marine microalga Pavlova lutheri suppresses PMA-induced secretion of matrix metalloproteinase-9 through the inactivation of the JNK, p38, and NF-Î°B pathways in human fibrosarcoma cells. Journal of Applied Phycology, 2018, 30, 2367-2378.	2.8	12
43	Peripheral Nerve Regeneration Using a Nerve Conduit with Olfactory Ensheathing Cells in a Rat Model. Tissue Engineering and Regenerative Medicine, 2021, 18, 453-465.	3.7	12
44	Topical delivery of retinol emulsions co-stabilised by PEO-PCL-PEO triblock copolymers: effect of PCL block length. Journal of Microencapsulation, 2012, 29, 739-746.	2.8	11
45	Curcuminâ€loaded biodegradable polyurethane scaffolds modified with gelatin using 3D printing technology for cartilage tissue engineering. Polymers for Advanced Technologies, 2019, 30, 3083-3090.	3.2	11
46	Fabrication of Biodegradable Polyurethane Foam Scaffolds with Customized Shapes and Controlled Mechanical Properties by Gas Foaming Technique. Macromolecular Materials and Engineering, 2021, 306, 2100114.	3.6	11
47	Preparation and characterization of heparinized multi-walled carbon nanotubes. Process Biochemistry, 2012, 47, 113-118.	3.7	10
48	A facile method for preparation of polycaprolactone/tricalcium phosphate fibrous matrix with a gradient mineral content. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 429, 134-141.	4.7	10
49	pH-Responsive globular poly(ethylene glycol) for photodynamic tumor therapy. Colloids and Surfaces B: Biointerfaces, 2016, 148, 173-180.	5.0	10
50	Enhanced osteogenic differentiation of alendronate-conjugated nanodiamonds for potential osteoporosis treatment. Biomaterials Research, 2021, 25, 28.	6.9	10
51	Surface-Functionalized Nanoparticles for Controlled Drug Delivery. , 2005, 303, 121-132.		9
52	Fabrication of poly(methyl methacrylate) and TiO2 composite microspheres with controlled morphologies and porous structures by electrospraying. Journal of Materials Science, 2015, 50, 6531-6538.	3.7	9
53	Production of uniform emulsion droplets using a simple fluidic device with a peristaltic pump. Macromolecular Research, 2014, 22, 557-561.	2.4	7
54	Facile fabrication of hyaluronated starch nanogels for efficient docetaxel delivery. Journal of Bioactive and Compatible Polymers, 2019, 34, 321-330.	2.1	7

#	ARTICLE	IF	CITATIONS
55	Prevention of polydimethylsiloxane microsphere migration using a mussel-inspired polydopamine coating for potential application in injection therapy. PLoS ONE, 2017, 12, e0186877.	2.5	7
56	Fabrication of Microfiber-Templated Microfluidic Chips with Microfibrous Channels for High Throughput and Continuous Production of Nanoscale Droplets. ACS Macro Letters, 2022, 11, 127-134.	4.8	7
57	Biocompatible charcoal composites prepared by ionic liquids for drug detoxification. Macromolecular Research, 2011, 19, 734-738.	2.4	6
58	Fabrication of Tubular Scaffolds with Controllable Fiber Orientations Using Electrospinning for Tissue Engineering. Macromolecular Materials and Engineering, 2014, 299, 1425-1429.	3.6	6
59	Fabrication of Poly(<scp>L</scp>â€lactide)â€<i>block</i>â€Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 587 Td (gly AFM Study. Macromolecular Rapid Communications, 2008, 29, 175-180.	3.9	5
60	Preparation of poly(NIPAAm)-Pluronic F68 as a thermosensitive surfactant for a controlled drug release. International Journal of Pharmaceutical Investigation, 2011, 1, 88.	0.3	5
61	Biodegradable uniform microspheres based on solid-in-oil-in-water emulsion for drug delivery: A comparison of homogenization and fluidic device. Journal of Bioactive and Compatible Polymers, 2014, 29, 445-457.	2.1	5
62	Fabrication of poly(L-lactide) porous beads coated with hydroxyapatite using a simple fluidic device for tissue engineering. Macromolecular Research, 2015, 23, 501-504.	2.4	5
63	Fabrication of blue-fluorescent nanodiamonds modified with alkyl isocyanate for cellular bioimaging. Colloids and Surfaces B: Biointerfaces, 2018, 167, 191-196.	5.0	5
64	Fabrication of nanodiamonds modified with hyaluronic acid and chlorin e6 for selective photothermal and photodynamic tumor therapy. Polymers for Advanced Technologies, 2020, 31, 2990-2998.	3.2	5
65	Transdermal delivery of FITC-Dextrans with different molecular weights using radiofrequency microporation. Biomaterials Research, 2020, 24, 22.	6.9	5
66	Using a stirred cell to evaluate structural changes in proteins adsorbed on particles. AICHE Journal, 2005, 51, 1048-1052.	3.6	3
67	Sustained release of antibiotics from uniform poly (Îµ-caprolactone) microspheres prepared by a simple fluidic device with a tapered glass capillary. Journal of Bioactive and Compatible Polymers, 2014, 29, 318-329.	2.1	3
68	Electrosprayed Folic Acid-Conjugated Ursolic Acid Nanoparticles for Tumor Therapy. Macromolecular Research, 2018, 26, 573-576.	2.4	3
69	Oneâ€Step Fabrication of Uniform Biodegradable Microbeads with Unimodal and Bimodal Porous Structures Using Spontaneous Microphase Separation. Macromolecular Materials and Engineering, 2018, 303, 1800139.	3.6	3
70	Edible HPMC films with indomethacin/HPMCP microparticles in oral delivery for taste-masking. Macromolecular Research, 2014, 22, 1156-1159.	2.4	2
71	Fabrication of poly(d,l-lactide-co-glycolide) nanoparticles using a simple fluidic device with a tapered glass capillary and the effect of thermodynamic parameters. Journal of Pharmaceutical Investigation, 2015, 45, 157-161.	5.3	2
72	Synthesis and Characterizations of Biodegradable Polyurethane Microspheres with Dexamethasone for Drug Delivery. Macromolecular Research, 2019, 27, 839-842.	2.4	2

#	Article	IF	Citations
73	3D-Printed Poly Lactic Acid Scaffolds with Tetrapod-Interlocked Structure Containing Dipyridamole. Macromolecular Research, 2020, 28, 5-8.	2.4	2
74	Production of Uniform Microspheres Using a Simple Microfluidic Device with Silica Capillary. Macromolecular Research, 2021, 29, 82-88.	2.4	2
75	Fabrication of porous poly(acrylamide) beads with macroâ€•and micropores. Polymer Engineering and Science, 2012, 52, 385-389.	3.1	1
76	Fabrication of aligned fibrous tubular scaffolds reinforced by suture wire for tracheal regeneration. Macromolecular Research, 2015, 23, 418-421.	2.4	1
77	Polydimethylsiloxane Fluidic Device with Polydopamineâ€Coated Inner Channel for Production of Uniform Droplets. Macromolecular Materials and Engineering, 2016, 301, 1044-1048.	3.6	1
78	Ionic Cross-Linkable Alendronate-Conjugated Biodegradable Polyurethane Films for Potential Guided Bone Regeneration. Macromolecular Research, 2022, 30, 99-106.	2.4	1
79	Fabrication of porous emulsion-templated conducting composite beads by vapor phase polymerization. Macromolecular Research, 2012, 20, 433-436.	2.4	0
80	Enhanced effects of osteoclastogenesis inhibition by curcumin-delivering heparin nanoparticles. Macromolecular Research, 2014, 22, 647-656.	2.4	0