Hyun Jung Chung

List of Publications by Year
in descending order

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41 papers	3,553 citations	236833 25 h-index	243529 44 g-index
44 all docs	44 docs citations	44 times ranked	6188 citing authors

#	Article	IF	Citations
1	Surface engineered and drug releasing pre-fabricated scaffolds for tissue engineering. Advanced Drug Delivery Reviews, 2007, 59, 249-262.	6.6	353
2	Thermo-sensitive, injectable, and tissue adhesive solâ€“gel transition hyaluronic acid/pluronic composite hydrogels prepared from bio-inspired catechol-thiol reaction. Soft Matter, 2010, 6, 977.	1.2	336
3	A magneto-DNA nanoparticle system for rapid detection and phenotyping of bacteria. Nature Nanotechnology, 2013, 8, 369-375.	15.6	307
4	Nanomaterials for Cancer Therapy and Imaging. Molecules and Cells, 2011, 31, 295-302.	1.0	287
5	Macroporous and nanofibrous hyaluronic acid/collagen hybrid scaffold fabricated by concurrent electrospinning and deposition/leaching of salt particles. Acta Biomaterialia, 2008, 4, 1611-1619.	4.1	280
6	Biodegradable polymeric microspheres with â€œopen/closedâ€•pores for sustained release of human growth hormone. Journal of Controlled Release, 2006, 112, 167-174.	4.8	226
7	Self-assembled and nanostructured hydrogels for drug delivery and tissue engineering. Nano Today, 2009, 4, 429-437.	6.2	191
8	Thermo-sensitive and biodegradable hydrogels based on stereocomplexed Pluronic multi-block copolymers for controlled protein delivery. Journal of Controlled Release, 2008, 127, 22-30.	4.8	176
9	Heparin Immobilized Porous PLGA Microspheres for Angiogenic Growth Factor Delivery. Pharmaceutical Research, 2006, 23, 1835-1841.	1.7	145
10	Nonviral Genome Editing Based on a Polymer-Derivatized CRISPR Nanocomplex for Targeting Bacterial Pathogens and Antibiotic Resistance. Bioconjugate Chemistry, 2017, 28, 957-967.	1.8	128
11	Ubiquitous Detection of Gram-Positive Bacteria with Bioorthogonal Magnetofluorescent Nanoparticles. ACS Nano, 2011, 5, 8834-8841.	7.3	127
12	Heparin-immobilized biodegradable scaffolds for local and sustained release of angiogenic growth factor. Journal of Biomedical Materials Research - Part A, 2006, 79A, 934-942.	2.1	115
13	Highly Open Porous Biodegradable Microcarriers: In Vitro Cultivation of Chondrocytes for Injectable Delivery. Tissue Engineering - Part A, 2008, 14, 607-615.	1.6	84
14	Injectable Cellular Aggregates Prepared from Biodegradable Porous Microspheres for Adipose Tissue Engineering. Tissue Engineering - Part A, 2009, 15, 1391-1400.	1.6	76
15	Facile Synthetic Route for Surface-Functionalized Magnetic Nanoparticles: Cell Labeling and Magnetic Resonance Imaging Studies. ACS Nano, 2011, 5, 4329-4336.	7.3	71
16	Gene silencing efficiency of siRNA-PEG conjugates: Effect of PEGylation site and PEG molecular weight. Journal of Controlled Release, 2010, 144, 306-313.	4.8	69
17	A Magnetic Gram Stain for Bacterial Detection. Angewandte Chemie - International Edition, 2012, 51, 7752-7755.	7.2	65
18	Î¼Hall Chip for Sensitive Detection of Bacteria. Advanced Healthcare Materials, 2013, 2, 1224-1228.	3.9	55

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19	Folate receptor-mediated intracellular delivery of recombinant caspase-3 for inducing apoptosis. Journal of Controlled Release, 2005, 108, 121-131.	4.8	53
20	Microstructured scaffold coated with hydroxyapatite/collagen nanocomposite multilayer for enhanced osteogenic induction of human mesenchymal stem cells. Journal of Materials Chemistry, 2010, 20, 8927.	6.7	37
21	Three-dimensional label-free observation of individual bacteria upon antibiotic treatment using optical diffraction tomography. Biomedical Optics Express, 2020, 11, 1257.	1.5	37
22	Hierarchically Assembled Mesenchymal Stem Cell Spheroids Using Biomimicking Nanofilaments and Microstructured Scaffolds for Vascularized Adipose Tissue Engineering. Advanced Functional Materials, 2010, 20, 2303-2309.	7.8	31
23	Nanoparticle Detection of Urinary Markers for Point-of-Care Diagnosis of Kidney Injury. PLoS ONE, 2015, 10, e0133417.	1.1	29
24	On-chip phenotypic investigation of combinatory antibiotic effects by generating orthogonal concentration gradients. Lab on A Chip, 2019, 19, 959-973.	3.1	27
25	Reducible siRNA Dimeric Conjugates for Efficient Cellular Uptake and Gene Silencing. Bioconjugate Chemistry, 2011, 22, 299-306.	1.8	26
26	Perspectives On: Local and Sustained Delivery of Angiogenic Growth Factors. Journal of Bioactive and Compatible Polymers, 2007, 22, 89-114.	0.8	25
27	Microfluidic-based observation of local bacterial density under antimicrobial concentration gradient for rapid antibiotic susceptibility testing. Biomicrofluidics, 2019, 13, 014108.	1.2	25
28	Delivery of antisense oligonucleotides using multi-layer coated gold nanoparticles to methicillin-resistant S. aureus for combinatorial treatment. Materials Science and Engineering C, 2021, 126, 112167.	3.8	21
29	Simple visualized readout of suppressed coffee ring patterns for rapid and isothermal genetic testing of antibacterial resistance. Biosensors and Bioelectronics, 2020, 168, 112566.	5.3	20
30	Subnanomolar FRET-Based DNA Assay Using Thermally Stable Phosphorothioated DNA-Functionalized Quantum Dots. ACS Applied Materials & Interfaces, 2019, 11, 33525-33534.	4.0	18
31	A Carbonâ€Dotâ€Based Fluorescent Nanosensor for Simple Visualization of Bacterial Nucleic Acids. Macromolecular Bioscience, 2017, 17, 1700086.	2.1	15
32	Polydopamine Sensors of Bacterial Hypoxia via Fluorescence Coupling. Advanced Functional Materials, 2021, 31, 2007993.	7.8	14
33	Fabrication of Adipose-Derived Mesenchymal Stem Cell Aggregates using Biodegradable Porous Microspheres for Injectable Adipose Tissue Regeneration. Journal of Biomaterials Science, Polymer Edition, 2011, 22, 107-122.	1.9	11
34	A magneto-DNA nanoparticle system for the rapid and sensitive diagnosis of enteric fever. Scientific Reports, 2016, 6, 32878.	1.6	11
35	Rapid and selective electrochemical sensing of bacterial pneumonia in human sputum based on conductive polymer dot electrodes. Sensors and Actuators B: Chemical, 2022, 368, 132084.	4.0	11
36	Rapid naked-eye detection of Gram-positive bacteria by vancomycin-based nano-aggregation. RSC Advances, 2018, 8, 25094-25103.	1.7	8

#	Article	IF	Citations
37	Ultra-fast and universal detection of Gram-negative bacteria in complex samples based on colistin derivatives. Biomaterials Science, 2020, 8, 2111-2119.	2.6	8
38	Nano-assembly of a Chemically Tailored Cas9 Ribonucleoprotein for In Vivo Gene Editing and Cancer Immunotherapy. Chemistry of Materials, 2022, 34, 547-561.	3.2	6
39	Phenolic Pyrogallol Fluorogen for Red Fluorescence Development in a PAS Domain Protein. Chemistry of Materials, 2018, 30, 1467-1471.	3.2	5
40	Recyclable Periodic Nanostructure Formed by Sublimable Liquid Crystals for Robust Cell Alignment. Langmuir, 2022, 38, 3765-3774.	1.6	5
41	Cas9 conjugate complex delivering donor DNA for efficient gene editing by homology-directed repair. Journal of Industrial and Engineering Chemistry, 2021, 102, 241-250.	2.9	3