Hyun Jung Chung

List of Publications by Year
in descending order

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41	3,553	236833	243529
papers	citations	25 h-index	44 g-index

44	44	44	6188
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recyclable Periodic Nanostructure Formed by Sublimable Liquid Crystals for Robust Cell Alignment. Langmuir, 2022, 38, 3765-3774.	1.6	5
2	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
3	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
4	Polydopamine Sensors of Bacterial Hypoxia via Fluorescence Coupling. Advanced Functional Materials, 2021, 31, 2007993.	7.8	14
5	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
6	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
7	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
8	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
9	Three-dimensional label-free observation of individual bacteria upon antibiotic treatment using optical diffraction tomography. Biomedical Optics Express, 2020, 11, 1257.	1.5	37
10	Subnanomolar FRET-Based DNA Assay Using Thermally Stable Phosphorothioated DNA-Functionalized Quantum Dots. ACS Applied Materials & Interfaces, 2019, 11, 33525-33534.	4.0	18
11	Microfluidic-based observation of local bacterial density under antimicrobial concentration gradient for rapid antibiotic susceptibility testing. Biomicrofluidics, 2019, 13, 014108.	1.2	25
12	On-chip phenotypic investigation of combinatory antibiotic effects by generating orthogonal concentration gradients. Lab on A Chip, 2019, 19, 959-973.	3.1	27
13	Phenolic Pyrogallol Fluorogen for Red Fluorescence Development in a PAS Domain Protein. Chemistry of Materials, 2018, 30, 1467-1471.	3.2	5
14	Rapid naked-eye detection of Gram-positive bacteria by vancomycin-based nano-aggregation. RSC Advances, 2018, 8, 25094-25103.	1.7	8
15	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
16	A Carbonâ€Dotâ€Based Fluorescent Nanosensor for Simple Visualization of Bacterial Nucleic Acids. Macromolecular Bioscience, 2017, 17, 1700086.	2.1	15
17	A magneto-DNA nanoparticle system for the rapid and sensitive diagnosis of enteric fever. Scientific Reports, 2016, 6, 32878.	1.6	11
18	Nanoparticle Detection of Urinary Markers for Point-of-Care Diagnosis of Kidney Injury. PLoS ONE, 2015, 10, e0133417.	1.1	29

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19	Î¼Hall Chip for Sensitive Detection of Bacteria. Advanced Healthcare Materials, 2013, 2, 1224-1228.	3.9	55
20	A magneto-DNA nanoparticle system for rapid detection and phenotyping of bacteria. Nature Nanotechnology, 2013, 8, 369-375.	15.6	307
21	A Magnetic Gram Stain for Bacterial Detection. Angewandte Chemie - International Edition, 2012, 51, 7752-7755.	7.2	65
22	Reducible siRNA Dimeric Conjugates for Efficient Cellular Uptake and Gene Silencing. Bioconjugate Chemistry, 2011, 22, 299-306.	1.8	26
23	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
24	Facile Synthetic Route for Surface-Functionalized Magnetic Nanoparticles: Cell Labeling and Magnetic Resonance Imaging Studies. ACS Nano, 2011, 5, 4329-4336.	7.3	71
25	Ubiquitous Detection of Gram-Positive Bacteria with Bioorthogonal Magnetofluorescent Nanoparticles. ACS Nano, 2011, 5, 8834-8841.	7.3	127
26	Nanomaterials for Cancer Therapy and Imaging. Molecules and Cells, 2011, 31, 295-302.	1.0	287
27	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
28	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
29	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
30	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
31	Self-assembled and nanostructured hydrogels for drug delivery and tissue engineering. Nano Today, 2009, 4, 429-437.	6.2	191
32	Injectable Cellular Aggregates Prepared from Biodegradable Porous Microspheres for Adipose Tissue Engineering. Tissue Engineering - Part A, 2009, 15, 1391-1400.	1.6	76
33	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
34	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
35	Highly Open Porous Biodegradable Microcarriers: In Vitro Cultivation of Chondrocytes for Injectable Delivery. Tissue Engineering - Part A, 2008, 14, 607-615.	1.6	84
36	Perspectives On: Local and Sustained Delivery of Angiogenic Growth Factors. Journal of Bioactive and Compatible Polymers, 2007, 22, 89-114.	0.8	25

#	Article	IF	Citations
37	Surface engineered and drug releasing pre-fabricated scaffolds for tissue engineering. Advanced Drug Delivery Reviews, 2007, 59, 249-262.	6.6	353
38	Heparin Immobilized Porous PLGA Microspheres for Angiogenic Growth Factor Delivery. Pharmaceutical Research, 2006, 23, 1835-1841.	1.7	145
39	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
40	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
41	Folate receptor-mediated intracellular delivery of recombinant caspase-3 for inducing apoptosis. Journal of Controlled Release, 2005, 108, 121-131.	4.8	53