

Jonghoon Choi

List of Publications by Citations

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111
papers

3,070
citations

29
h-index

52
g-index

116
ext. papers

3,864
ext. citations

6.4
avg, IF

5.57
L-index

#	Paper	IF	Citations
111	Mesoporous silica-coated hollow manganese oxide nanoparticles as positive T1 contrast agents for labeling and MRI tracking of adipose-derived mesenchymal stem cells. <i>Journal of the American Chemical Society</i> , 2011 , 133, 2955-61	16.4	446
110	Physicochemical characterization and in vitro hemolysis evaluation of silver nanoparticles. <i>Toxicological Sciences</i> , 2011 , 123, 133-43	4.4	187
109	Cell-surface sensors for real-time probing of cellular environments. <i>Nature Nanotechnology</i> , 2011 , 6, 524-31	28.7	167
108	An assessment of the toxicity of polypropylene microplastics in human derived cells. <i>Science of the Total Environment</i> , 2019 , 684, 657-669	10.2	163
107	Potential toxicity of polystyrene microplastic particles. <i>Scientific Reports</i> , 2020 , 10, 7391	4.9	119
106	Immuno-hybridization chain reaction for enhancing detection of individual cytokine-secreting human peripheral mononuclear cells. <i>Analytical Chemistry</i> , 2011 , 83, 6890-5	7.8	95
105	Comparison of cytotoxic and inflammatory responses of photoluminescent silicon nanoparticles with silicon micron-sized particles in RAW 264.7 macrophages. <i>Journal of Applied Toxicology</i> , 2009 , 29, 52-60	4.1	90
104	Chemoresistance of Cancer Cells: Requirements of Tumor Microenvironment-mimicking Models in Anti-Cancer Drug Development. <i>Theranostics</i> , 2018 , 8, 5259-5275	12.1	89
103	Conductive biomaterials for tissue engineering applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 51, 12-26	6.3	75
102	Assessment of Size-Dependent Antimicrobial and Cytotoxic Properties of Silver Nanoparticles. <i>Advances in Materials Science and Engineering</i> , 2014 , 2014, 1-6	1.5	73
101	Fast and sensitive detection of an anthrax biomarker using SERS-based solenoid microfluidic sensor. <i>Biosensors and Bioelectronics</i> , 2015 , 72, 230-6	11.8	68
100	In vitro blood cell viability profiling of polymers used in molecular assembly. <i>Scientific Reports</i> , 2017 , 7, 9481	4.9	58
99	Microtools for single-cell analysis in biopharmaceutical development and manufacturing. <i>Trends in Biotechnology</i> , 2013 , 31, 280-6	15.1	52
98	Antibacterial activity and cytotoxicity of multi-walled carbon nanotubes decorated with silver nanoparticles. <i>International Journal of Nanomedicine</i> , 2014 , 9, 4621-9	7.3	51
97	Multimodal imaging of sustained drug release from 3-D poly(propylene fumarate) (PPF) scaffolds. <i>Journal of Controlled Release</i> , 2011 , 156, 239-45	11.7	51
96	Photoassisted tuning of silicon nanocrystal photoluminescence. <i>Langmuir</i> , 2007 , 23, 3388-94	4	50
95	Biomimetics: forecasting the future of science, engineering, and medicine. <i>International Journal of Nanomedicine</i> , 2015 , 10, 5701-13	7.3	48

94	Stimuli-Responsive Nanomaterials for Application in Antitumor Therapy and Drug Delivery. <i>Pharmaceutics</i> , 2020 , 12,	6.4	46
93	Conjugation of the photoluminescent silicon nanoparticles to streptavidin. <i>Bioconjugate Chemistry</i> , 2008 , 19, 680-5	6.3	43
92	Separation of extracellular nanovesicles and apoptotic bodies from cancer cell culture broth using tunable microfluidic systems. <i>Scientific Reports</i> , 2017 , 7, 9907	4.9	35
91	Oxygen-Carrying Micro/Nanobubbles: Composition, Synthesis Techniques and Potential Prospects in Photo-Triggered Theranostics. <i>Molecules</i> , 2018 , 23,	4.8	35
90	Effective delivery of immunosuppressive drug molecules by silica coated iron oxide nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 142, 290-296	6	34
89	Engineering copper nanoparticles synthesized on the surface of carbon nanotubes for anti-microbial and anti-biofilm applications. <i>Nanoscale</i> , 2018 , 10, 15529-15544	7.7	33
88	Green synthesis of silver nanoparticles using Eglucan, and their incorporation into doxorubicin-loaded water-in-oil nanoemulsions for antitumor and antibacterial applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 47, 179-186	6.3	31
87	Nano-film coatings onto collagen hydrogels with desired drug release. <i>Journal of Industrial and Engineering Chemistry</i> , 2016 , 36, 326-333	6.3	31
86	Engineered chitosan-xanthan gum biopolymers effectively adhere to cells and readily release incorporated antiseptic molecules in a sustained manner. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 46, 68-79	6.3	31
85	Micro 3D cell culture systems for cellular behavior studies: Culture matrices, devices, substrates, and in-situ sensing methods. <i>Biotechnology Journal</i> , 2015 , 10, 1682-8	5.6	31
84	Facile solvothermal preparation of monodisperse gold nanoparticles and their engineered assembly of ferritin-gold nanoclusters. <i>Langmuir</i> , 2013 , 29, 15698-703	4	30
83	Development of electrochemical biosensor for detection of pathogenic microorganism in Asian dust events. <i>Chemosphere</i> , 2017 , 175, 269-274	8.4	29
82	Engineering oxygen nanobubbles for the effective reversal of hypoxia. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018 , 46, S318-S327	6.1	29
81	Measurement of nanoparticle concentration using quartz crystal microgravimetry. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 16112-7	3.4	28
80	The targeted delivery of the c-Src peptide complexed with schizophyllan to macrophages inhibits polymicrobial sepsis and ulcerative colitis in mice. <i>Biomaterials</i> , 2016 , 89, 1-13	15.6	28
79	Mesenchymal Stem Cell-Derived Exosomes for Effective Cartilage Tissue Repair and Treatment of Osteoarthritis. <i>Biotechnology Journal</i> , 2020 , 15, e2000082	5.6	26
78	Use of Nanoscale Materials for the Effective Prevention and Extermination of Bacterial Biofilms. <i>Biotechnology and Bioprocess Engineering</i> , 2018 , 23, 1-10	3.1	25
77	Small-angle neutron scattering measurement of silicon nanoparticle size. <i>Nanotechnology</i> , 2008 , 19, 085315	3.15	24

76	In vitro toxicity from a physical perspective of polyethylene microplastics based on statistical curvature change analysis. <i>Science of the Total Environment</i> , 2021 , 752, 142242	10.2	23
75	Anti-Tumor Drug-Loaded Oxygen Nanobubbles for the Degradation of HIF-1 α and the Upregulation of Reactive Oxygen Species in Tumor Cells. <i>Cancers</i> , 2019 , 11,	6.6	22
74	Electrochemical reduction synthesis of photoluminescent silicon nanocrystals. <i>Langmuir</i> , 2009 , 25, 7097-102	4.0	22
73	Synthesis of Beta-glucan Nanoparticles for the Delivery of Single Strand DNA. <i>Biotechnology and Bioprocess Engineering</i> , 2018 , 23, 144-149	3.1	22
72	Engineered nanoconstructs for the multiplexed and sensitive detection of high-risk pathogens. <i>Nanoscale</i> , 2016 , 8, 1944-51	7.7	21
71	Artificial cellular nano-environment composed of collagen-based nanofilm promotes osteogenic differentiation of mesenchymal stem cells. <i>Acta Biomaterialia</i> , 2019 , 86, 247-256	10.8	20
70	Sensitive detection of copper ions via ion-responsive fluorescence quenching of engineered porous silicon nanoparticles. <i>Scientific Reports</i> , 2016 , 6, 35565	4.9	19
69	Surface Composition and Preparation Method for Oxygen Nanobubbles for Drug Delivery and Ultrasound Imaging Applications. <i>Nanomaterials</i> , 2019 , 9,	5.4	19
68	Functional silica nanoparticles conjugated with beta-glucan to deliver anti-tuberculosis drug molecules. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 58, 376-385	6.3	18
67	Nanoparticles in Biomedical Applications and Their Safety Concerns 2011 ,		18
66	Engineered collagen hydrogels for the sustained release of biomolecules and imaging agents: promoting the growth of human gingival cells. <i>International Journal of Nanomedicine</i> , 2014 , 9, 5189-201	7.3	16
65	Development of silver/graphene oxide nanocomposites for antibacterial and antibiofilm applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 83, 46-52	6.3	16
64	Development of Antibiofilm Nanocomposites: Ag/Cu Bimetallic Nanoparticles Synthesized on the Surface of Graphene Oxide Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 35826-35834	9.5	16
63	Effective Delivery of Anti-Cancer Drug Molecules with Shape Transforming Liquid Metal Particles. <i>Cancers</i> , 2019 , 11,	6.6	15
62	The solvothermal synthesis of magnetic iron oxide nanocrystals and the preparation of hybrid poly(L-lactide)-polyethyleneimine magnetic particles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 109, 236-43	6	15
61	Synthesis and Functionalization of β Glucan Particles for the Effective Delivery of Doxorubicin Molecules. <i>ACS Omega</i> , 2019 , 4, 668-674	3.9	15
60	Simple Preparation of Fluorescent Silicon Nanoparticles from Used Si Wafers. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 5982-5989	3.9	14
59	Aptamer-conjugated live human immune cell based biosensors for the accurate detection of C-reactive protein. <i>Scientific Reports</i> , 2016 , 6, 34778	4.9	14

58	Exosome-based photoacoustic imaging guided photodynamic and immunotherapy for the treatment of pancreatic cancer. <i>Journal of Controlled Release</i> , 2021 , 330, 293-304	11.7	14
57	DNA aptamer immobilized hydroxyapatite for enhancing angiogenesis and bone regeneration. <i>Acta Biomaterialia</i> , 2019 , 99, 469-478	10.8	13
56	Surface conjugation of poly (dimethyl siloxane) with itaconic acid-based materials for antibacterial effects. <i>Applied Surface Science</i> , 2018 , 437, 245-256	6.7	13
55	Synthesis and Characterization of Functional Nanofilm-Coated Live Immune Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 17685-17692	9.5	13
54	Optical Immunosensors for the Efficient Detection of Target Biomolecules. <i>Biotechnology and Bioprocess Engineering</i> , 2018 , 23, 123-133	3.1	13
53	NIR Laser-Responsive PNIPAM and Gold Nanorod Composites for the Engineering of Thermally Reactive Drug Delivery Nanomedicine. <i>Pharmaceutics</i> , 2020 , 12,	6.4	12
52	Enhanced Detection of Infectious Pancreatic Necrosis Virus via Lateral Flow Chip and Fluorometric Biosensors Based on Self-Assembled Protein Nanoprobes. <i>ACS Sensors</i> , 2019 , 4, 2937-2944	9.2	12
51	Chlorhexidine-loaded xanthan gum-based biopolymers for targeted, sustained release of antiseptic agent. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 32, 44-48	6.3	11
50	Mechanisms of Salinity Control in Sea Bass. <i>Biotechnology and Bioprocess Engineering</i> , 2018 , 23, 271-277	3.1	10
49	Harnessing immunomagnetic separation and quantum dot-based quantification capacities for the enumeration of absolute levels of biomarker. <i>Nanotechnology</i> , 2013 , 24, 285103	3.4	9
48	Surface Pattern Analysis of Microplastics and Their Impact on Human-Derived Cells. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 4541-4550	4.3	9
47	A Microfluidic Approach to Investigating a Synergistic Effect of Tobramycin and Sodium Dodecyl Sulfate on <i>Pseudomonas aeruginosa</i> Biofilms. <i>Analytical Sciences</i> , 2016 , 32, 67-73	1.7	8
46	Engineered nanomaterials for their applications in theragnostics. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 66, 20-28	6.3	8
45	Multicomponent High-throughput Drug Screening via Inkjet Printing to Verify the Effect of Immunosuppressive Drugs on Immune T Lymphocytes. <i>Scientific Reports</i> , 2017 , 7, 6318	4.9	8
44	A novel nanoprobe for the sensitive detection of <i>Francisella tularensis</i> . <i>Journal of Hazardous Materials</i> , 2015 , 298, 188-94	12.8	8
43	Exosome-mediated diagnosis of pancreatic cancer using lectin-conjugated nanoparticles bound to selective glycans. <i>Biosensors and Bioelectronics</i> , 2021 , 177, 112980	11.8	8
42	Femtosecond laser induced nano-textured micropatterning to regulate cell functions on implanted biomaterials. <i>Acta Biomaterialia</i> , 2020 , 116, 138-148	10.8	7
41	Electrochemical Synthesis of Red Fluorescent Silicon Nanoparticles. <i>Bulletin of the Korean Chemical Society</i> , 2014 , 35, 35-38	1.2	7

40	Biological Responses of Onion-Shaped Carbon Nanoparticles. <i>Nanomaterials</i> , 2019 , 9,	5.4	6
39	Pre/post-natal exposure to microplastic as a potential risk factor for autism spectrum disorder.. <i>Environment International</i> , 2022 , 161, 107121	12.9	6
38	Methods of Analyzing Microsized Plastics in the Environment. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 10640	2.6	6
37	Effective delivery of mycophenolic acid by oxygen nanobubbles for modulating immunosuppression. <i>Theranostics</i> , 2020 , 10, 3892-3904	12.1	6
36	Quantification of Unknown Nanoscale Biomolecules Using the Average-Weight-Difference Method. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 130	2.6	5
35	Enhanced detection of single-cell-secreted proteins using a fluorescent immunoassay on the protein-G-terminated glass substrate. <i>International Journal of Nanomedicine</i> , 2015 , 10, 7197-205	7.3	5
34	Alginate-chitosan Hydrogel Patch with Beta-glucan Nanoemulsion for Antibacterial Applications. <i>Biotechnology and Bioprocess Engineering</i> , 2021 , 26, 71-77	3.1	5
33	Current Immunotherapy Approaches for Malignant Melanoma. <i>Biochip Journal</i> , 2019 , 13, 105-114	4	4
32	Regulation of Electromagnetic Perceptive Gene Using Ferromagnetic Particles for the External Control of Calcium Ion Transport. <i>Biomolecules</i> , 2020 , 10,	5.9	4
31	Facile fabrication of polyaniline films with hierarchical porous networks for enhanced electrochemical activity. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 86, 81-89	6.3	4
30	Array-Based Screening of Silver Nanoparticle Mineralization Peptides. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	4
29	Probing characteristics of cancer cells cultured on engineered platforms simulating different microenvironments. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018 , 46, 1170-1179	6.1	4
28	Strategies for the optimization of bead-immunoassays for the effective detection of target biomolecules. <i>Korean Journal of Chemical Engineering</i> , 2018 , 35, 805-811	2.8	4
27	Engineered self-expander hydrogel for sustained release of drug molecules. <i>Journal of Industrial and Engineering Chemistry</i> , 2016 , 42, 121-125	6.3	4
26	Self-Assembling β Glucan Nanomedicine for the Delivery of siRNA. <i>Biomedicines</i> , 2020 , 8,	4.8	4
25	Eco-Friendly Dye-Sensitized Solar Cells Based on Water-Electrolytes and Chlorophyll. <i>Materials</i> , 2021 , 14,	3.5	4
24	Overview of current standpoints in profiling of circulating tumor cells. <i>Archives of Pharmacal Research</i> , 2014 , 37, 88-95	6.1	3
23	A glimpse into the interactions of cells in a microenvironment: the modulation of T cells by mesenchymal stem cells. <i>International Journal of Nanomedicine</i> , 2014 , 9 Suppl 1, 127-39	7.3	3

22	Study and Evaluation of the Potential of Lipid Nanocarriers for Transdermal Delivery of siRNA. <i>Biotechnology Journal</i> , 2020 , 15, e2000079	5.6	3
21	Synthesis of near-infrared absorbing triangular Au nanoplates using biomineralisation peptides. <i>Acta Biomaterialia</i> , 2021 , 131, 519-531	10.8	3
20	Vascularized Lung Cancer Model for Evaluating the Promoted Transport of Anticancer Drugs and Immune Cells in an Engineered Tumor Microenvironment.. <i>Advanced Healthcare Materials</i> , 2022 , e2102581	10.1	3
19	Perspectives on the nanotechnology applications of for the analytical detection of heavy metals in marine organisms. <i>Biotechnology and Bioprocess Engineering</i> , 2016 , 21, 191-198	3.1	2
18	Technology advancement for integrative stem cell analyses. <i>Tissue Engineering - Part B: Reviews</i> , 2014 , 20, 669-82	7.9	2
17	Stability of Engineered Micro or Nanobubbles for Biomedical Applications. <i>Pharmaceutics</i> , 2020 , 12,	6.4	2
16	Methods and Applications of Biomolecular Surface Coatings on Individual Cells.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 6556-6570	4.1	2
15	Inhalable nanoparticles delivery targeting alveolar macrophages for the treatment of pulmonary tuberculosis. <i>Journal of Bioscience and Bioengineering</i> , 2021 , 132, 543-551	3.3	2
14	Single-step acid-catalyzed synthesis of luminescent colloidal organosilica nanobeads.. <i>Nano Convergence</i> , 2022 , 9, 12	9.2	2
13	Cytotoxicity of the photoluminescent silicon nanocrystals 2007 ,		1
12	Surface glycan targeting for cancer nano-immunotherapy.. <i>Journal of Controlled Release</i> , 2022 , 342, 321-336	11.6	1
11	Peptide Specific Nanoplastic Detection Based on Sandwich Typed Localized Surface Plasmon Resonance. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
10	Engineering of alkyl-terminated silicon nanoparticles for the selective filtration of copper ions. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 82, 197-204	6.3	1
9	Synthesis of Multi-walled Carbon Nanotubes Modified with Silver Nanoparticles and Evaluation of Their Antibacterial Activities and Cytotoxic Properties. <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	1
8	Oxygen transport to mammalian cell and bacteria using nano-sized liposomes encapsulating oxygen molecules. <i>Journal of Bioscience and Bioengineering</i> , 2021 , 132, 657-665	3.3	1
7	A fully textile-based skin pH sensor. <i>Journal of Industrial Textiles</i> ,152808372110733	1.6	1
6	Dielectrophoretic Manipulation of Janus Particle in Conductive Media for Biomedical Applications. <i>Biotechnology Journal</i> , 2020 , 15, e2000343	5.6	0
5	Hypoxia-Responsive Oxygen Nanobubbles for Tissues-Targeted Delivery in Developing Tooth Germs. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 626224	5.7	0

4	Sensitive and specific capture of polystyrene and polypropylene microplastics using engineered peptide biosensors.. <i>RSC Advances</i> , 2022 , 12, 7680-7688	3.7	○
3	Monitoring Wound Healing with Topically Applied Optical NanoFlare mRNA Nanosensors.. <i>Advanced Science</i> , 2022 , e2104835	13.6	○
2	Gravity Applied Particle Separation in Nanoliter Volume Fluid System Toward Complexed Biosample Sorting. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 11892-11895	1.3	
1	Recent patents of nanodevices for single cell immunological assays. <i>Recent Patents on Nanotechnology</i> , 2011 , 5, 178-87	1.2	