

Jonghoon Choi

List of Publications by Year in descending order

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117
papers

4,674
citations

117625

34
h-index

106344

65
g-index

117
all docs

117
docs citations

117
times ranked

8104
citing authors

#	ARTICLE	IF	CITATIONS
1	Mesoporous Silica-Coated Hollow Manganese Oxide Nanoparticles as Positive Contrast Agents for Labeling and MRI Tracking of Adipose-Derived Mesenchymal Stem Cells. <i>Journal of the American Chemical Society</i> , 2011, 133, 2955-2961.	13.7	491
2	An assessment of the toxicity of polypropylene microplastics in human derived cells. <i>Science of the Total Environment</i> , 2019, 684, 657-669.	8.0	359
3	Potential toxicity of polystyrene microplastic particles. <i>Scientific Reports</i> , 2020, 10, 7391.	3.3	303
4	Physicochemical Characterization and In Vitro Hemolysis Evaluation of Silver Nanoparticles. <i>Toxicological Sciences</i> , 2011, 123, 133-143.	3.1	248
5	Cell-surface sensors for real-time probing of cellular environments. <i>Nature Nanotechnology</i> , 2011, 6, 524-531.	31.5	201
6	Chemoresistance of Cancer Cells: Requirements of Tumor Microenvironment-mimicking In Vitro Models in Anti-Cancer Drug Development. <i>Theranostics</i> , 2018, 8, 5259-5275.	10.0	138
7	Enhanced Doubly Activated Dual Emission Fluorescent Probes for Selective Imaging of Glutathione or Cysteine in Living Systems. <i>Analytical Chemistry</i> , 2018, 90, 2648-2654.	6.5	137
8	Stimuli-Responsive Nanomaterials for Application in Antitumor Therapy and Drug Delivery. <i>Pharmaceutics</i> , 2020, 12, 630.	4.5	106
9	Immuno-Hybridization Chain Reaction for Enhancing Detection of Individual Cytokine-Secreting Human Peripheral Mononuclear Cells. <i>Analytical Chemistry</i> , 2011, 83, 6890-6895.	6.5	105
10	Assessment of Size-Dependent Antimicrobial and Cytotoxic Properties of Silver Nanoparticles. <i>Advances in Materials Science and Engineering</i> , 2014, 2014, 1-6.	1.8	105
11	Comparison of cytotoxic and inflammatory responses of photoluminescent silicon nanoparticles with silicon microparticles in RAW 264.7 macrophages. <i>Journal of Applied Toxicology</i> , 2009, 29, 52-60.	2.8	103
12	Conductive biomaterials for tissue engineering applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 51, 12-26.	5.8	98
13	Fast and sensitive detection of an anthrax biomarker using SERS-based solenoid microfluidic sensor. <i>Biosensors and Bioelectronics</i> , 2015, 72, 230-236.	10.1	84
14	Biomimetics: forecasting the future of science, engineering, and medicine. <i>International Journal of Nanomedicine</i> , 2015, 10, 5701.	6.7	83
15	In vitro blood cell viability profiling of polymers used in molecular assembly. <i>Scientific Reports</i> , 2017, 7, 9481.	3.3	76
16	Preparation and characterization of graphene oxide supported Cu, Cu ₂ O, and CuO nanocomposites and their high photocatalytic activity for organic dye molecule. <i>Current Applied Physics</i> , 2017, 17, 137-145.	2.4	76
17	Antibacterial activity and cytotoxicity of multi-walled carbon nanotubes decorated with silver nanoparticles. <i>International Journal of Nanomedicine</i> , 2014, 9, 4621.	6.7	61
18	Separation of extracellular nanovesicles and apoptotic bodies from cancer cell culture broth using tunable microfluidic systems. <i>Scientific Reports</i> , 2017, 7, 9907.	3.3	61

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19	Engineering copper nanoparticles synthesized on the surface of carbon nanotubes for anti-microbial and anti-biofilm applications. <i>Nanoscale</i> , 2018, 10, 15529-15544.	5.6	61
20	Multimodal imaging of sustained drug release from 3-D poly(propylene fumarate) (PPF) scaffolds. <i>Journal of Controlled Release</i> , 2011, 156, 239-245.	9.9	58
21	Microtools for single-cell analysis in biopharmaceutical development and manufacturing. <i>Trends in Biotechnology</i> , 2013, 31, 280-286.	9.3	58
22	Oxygen-Carrying Micro/Nanobubbles: Composition, Synthesis Techniques and Potential Prospects in Photo-Triggered Theranostics. <i>Molecules</i> , 2018, 23, 2210.	3.8	58
23	Photoassisted Tuning of Silicon Nanocrystal Photoluminescence. <i>Langmuir</i> , 2007, 23, 3388-3394.	3.5	54
24	Engineering oxygen nanobubbles for the effective reversal of hypoxia. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 318-327.	2.8	50
25	Conjugation of the Photoluminescent Silicon Nanoparticles to Streptavidin. <i>Bioconjugate Chemistry</i> , 2008, 19, 680-685.	3.6	49
26	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.	8.0	45
27	Nano-film coatings onto collagen hydrogels with desired drug release. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 36, 326-333.	5.8	43
28	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.	11.4	42
29	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, 1464.	3.7	41
30	Effective delivery of immunosuppressive drug molecules by silica coated iron oxide nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 142, 290-296.	5.0	40
31	Designing Redox-Stable Cobalt-Polypyridyl Complexes for Redox Flow Batteries: Spin-Crossover Delocalizes Excess Charge. <i>Advanced Energy Materials</i> , 2018, 8, 1702897.	19.5	38
32	Micro 3D cell culture systems for cellular behavior studies: Culture matrices, devices, substrates, and in situ sensing methods. <i>Biotechnology Journal</i> , 2015, 10, 1682-1688.	3.5	36
33	Facile Solvothermal Preparation of Monodisperse Gold Nanoparticles and Their Engineered Assembly of Ferritin-Gold Nanoclusters. <i>Langmuir</i> , 2013, 29, 15698-15703.	3.5	35
34	Development of electrochemical biosensor for detection of pathogenic microorganism in Asian dust events. <i>Chemosphere</i> , 2017, 175, 269-274.	8.2	35
35	Methods of Analyzing Microsized Plastics in the Environment. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10640.	2.5	35
36	Green synthesis of silver nanoparticles using β -glucan, 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.	5.8	34

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37	Effective Delivery of Anti-Cancer Drug Molecules with Shape Transforming Liquid Metal Particles. <i>Cancers</i> , 2019, 11, 1666.	3.7	34
38	Measurement of Nanoparticle Concentration Using Quartz Crystal Microgravimetry. <i>Journal of Physical Chemistry B</i> , 2010, 114, 16112-16117.	2.6	33
39	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.	5.8	33
40	Synthesis of Beta-glucan Nanoparticles for the Delivery of Single Strand DNA. <i>Biotechnology and Bioprocess Engineering</i> , 2018, 23, 144-149.	2.6	33
41	Synthesis and Functionalization of β -Glucan Particles for the Effective Delivery of Doxorubicin Molecules. <i>ACS Omega</i> , 2019, 4, 668-674.	3.5	32
42	DNA aptamer immobilized hydroxyapatite for enhancing angiogenesis and bone regeneration. <i>Acta Biomaterialia</i> , 2019, 99, 469-478.	8.3	31
43	Surface Composition and Preparation Method for Oxygen Nanobubbles for Drug Delivery and Ultrasound Imaging Applications. <i>Nanomaterials</i> , 2019, 9, 48.	4.1	30
44	Development of silver/graphene oxide nanocomposites for antibacterial and antibiofilm applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 83, 46-52.	5.8	29
45	Inhalable nanoparticles delivery targeting alveolar macrophages for the treatment of pulmonary tuberculosis. <i>Journal of Bioscience and Bioengineering</i> , 2021, 132, 543-551.	2.2	27
46	Small-angle neutron scattering measurement of silicon nanoparticle size. <i>Nanotechnology</i> , 2008, 19, 085715.	2.6	26
47	Use of Nanoscale Materials for the Effective Prevention and Extermination of Bacterial Biofilms. <i>Biotechnology and Bioprocess Engineering</i> , 2018, 23, 1-10.	2.6	26
48	A Low-Spin Three-Coordinate Cobalt(I) Complex and Its Reactivity toward H_2 and Silane. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6938-6942.	13.8	26
49	Artificial cellular nano-environment composed of collagen-based nanofilm promotes osteogenic differentiation of mesenchymal stem cells. <i>Acta Biomaterialia</i> , 2019, 86, 247-256.	8.3	26
50	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.	5.8	25
51	Electrochemical Reduction Synthesis of Photoluminescent Silicon Nanocrystals. <i>Langmuir</i> , 2009, 25, 7097-7102.	3.5	24
52	Stereocontrolled, Divergent, Al(III)-Catalyzed Coupling of Chiral N -Aryl Epoxy Amines and CO_2 . <i>Organic Letters</i> , 2018, 20, 5036-5039.	4.6	24
53	Sensitive detection of copper ions via ion-responsive fluorescence quenching of engineered porous silicon nanoparticles. <i>Scientific Reports</i> , 2016, 6, 35565.	3.3	22
54	Engineered nanoconstructs for the multiplexed and sensitive detection of high-risk pathogens. <i>Nanoscale</i> , 2016, 8, 1944-1951.	5.6	22

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55	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.	7.8	22
56	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, 236-243.	5.0	21
57	Optical Immunosensors for the Efficient Detection of Target Biomolecules. <i>Biotechnology and Bioprocess Engineering</i> , 2018, 23, 123-133.	2.6	21
58	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.	6.7	20
59	Regulation of Electromagnetic Perceptive Gene Using Ferromagnetic Particles for the External Control of Calcium Ion Transport. <i>Biomolecules</i> , 2020, 10, 308.	4.0	19
60	Simple Preparation of Fluorescent Silicon Nanoparticles from Used Si Wafers. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 5982-5989.	3.7	18
61	Synthesis and Characterization of Functional Nanofilm-Coated Live Immune Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 17685-17692.	8.0	17
62	Ligand-Controlled Direct Hydroformylation of Trisubstituted Olefins. <i>Organic Letters</i> , 2019, 21, 5789-5792.	4.6	17
63	Stability of Engineered Micro or Nanobubbles for Biomedical Applications. <i>Pharmaceutics</i> , 2020, 12, 1089.	4.5	17
64	NIR Laser-Responsive PNIPAM and Gold Nanorod Composites for the Engineering of Thermally Reactive Drug Delivery Nanomedicine. <i>Pharmaceutics</i> , 2020, 12, 204.	4.5	17
65	Aptamer-conjugated live human immune cell based biosensors for the accurate detection of C-reactive protein. <i>Scientific Reports</i> , 2016, 6, 34778.	3.3	16
66	Surface conjugation of poly (dimethyl siloxane) with itaconic acid-based materials for antibacterial effects. <i>Applied Surface Science</i> , 2018, 437, 245-256.	6.1	15
67	Conformational Adaptation of β -Peptide Foldamers for the Formation of Metal-Peptide Frameworks. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	14
68	Mechanisms of Salinity Control in Sea Bass. <i>Biotechnology and Bioprocess Engineering</i> , 2018, 23, 271-277.	2.6	13
69	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.	5.8	12
70	Divergent Strategies for the β -Extension of Heteroaryl Halides Using Norbornadiene as an Acetylene Syntho. <i>Organic Letters</i> , 2020, 22, 9670-9676.	4.6	12
71	Biological Responses of Onion-Shaped Carbon Nanoparticles. <i>Nanomaterials</i> , 2019, 9, 1016.	4.1	11
72	Array-Based Screening of Silver Nanoparticle Mineralization Peptides. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2377.	4.1	11

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73	A novel nanoprobe for the sensitive detection of <i>Francisella tularensis</i> . <i>Journal of Hazardous Materials</i> , 2015, 298, 188-194.	12.4	10
74	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.	1.6	10
75	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.	3.3	10
76	Bond Rotation in an Aromatic Carbaporphyrin: Allyliporphyrin. <i>Chemistry - A European Journal</i> , 2018, 24, 10054-10058.	3.3	10
77	Engineered nanomaterials for their applications in theragnostics. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 66, 20-28.	5.8	10
78	A Low-Spin Three-Coordinate Cobalt(II) Complex and Its Reactivity toward H ₂ and Silane. <i>Angewandte Chemie</i> , 2019, 131, 7012-7016.	2.0	10
79	Current Immunotherapy Approaches for Malignant Melanoma. <i>Biochip Journal</i> , 2019, 13, 105-114.	4.9	10
80	Harnessing immunomagnetic separation and quantum dot-based quantification capacities for the enumeration of absolute levels of biomarker. <i>Nanotechnology</i> , 2013, 24, 285103.	2.6	9
81	Effective delivery of mycophenolic acid by oxygen nanobubbles for modulating immunosuppression. <i>Theranostics</i> , 2020, 10, 3892-3904.	10.0	9
82	Electrochemical Synthesis of Red Fluorescent Silicon Nanoparticles. <i>Bulletin of the Korean Chemical Society</i> , 2014, 35, 35-38.	1.9	9
83	Eco-Friendly Dye-Sensitized Solar Cells Based on Water-Electrolytes and Chlorophyll. <i>Materials</i> , 2021, 14, 2150.	2.9	8
84	Synthesis of near-infrared absorbing triangular Au nanoplates using biomineralisation peptides. <i>Acta Biomaterialia</i> , 2021, 131, 519-531.	8.3	7
85	Peptide Specific Nanoplastic Detection Based on Sandwich Typed Localized Surface Plasmon Resonance. <i>Nanomaterials</i> , 2021, 11, 2887.	4.1	7
86	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.	6.7	6
87	Probing characteristics of cancer cells cultured on engineered platforms simulating different microenvironments. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 1170-1179.	2.8	6
88	Quantification of Unknown Nanoscale Biomolecules Using the Average-Weight-Difference Method. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 130.	2.5	6
89	Interface Engineering of Fully Metallic Stents Enabling Controllable H ₂ O ₂ Generation for Antirestenosis. <i>Langmuir</i> , 2019, 35, 3634-3642.	3.5	6
90	Self-Assembling β -2-Glucan Nanomedicine for the Delivery of siRNA. <i>Biomedicines</i> , 2020, 8, 497.	3.2	6

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91	Nanomaterials for Biomedical Applications. <i>Biotechnology Journal</i> , 2020, 15, e2000574.	3.5	6
92	Catalytic hydrogenation of CO ₂ at a structurally rigidified cobalt center. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 1845-1850.	6.0	6
93	Nickel-Catalyzed NO Group Transfer Coupled with NO _x Conversion. <i>Journal of the American Chemical Society</i> , 2022, 144, 4585-4593.	13.7	6
94	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.	6.7	5
95	Engineered self-expander hydrogel for sustained release of drug molecules. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 42, 121-125.	5.8	5
96	Methods and Applications of Biomolecular Surface Coatings on Individual Cells. <i>ACS Applied Bio Materials</i> , 2020, 3, 6556-6570.	4.6	5
97	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.	2.2	5
98	Conformational Adaptation of α -Peptide Foldamers for the Formation of Metal α -Peptide Frameworks. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	5
99	Microdevices for examining immunological responses of single cells to HIV. <i>Bioscience Reports</i> , 2014, 34, .	2.4	4
100	Technology Advancement for Integrative Stem Cell Analyses. <i>Tissue Engineering - Part B: Reviews</i> , 2014, 20, 669-682.	4.8	4
101	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.	2.6	4
102	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.	2.7	4
103	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.	5.8	4
104	Overview of current standpoints in profiling of circulating tumor cells. <i>Archives of Pharmacal Research</i> , 2014, 37, 88-95.	6.3	3
105	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, , .	0.3	3
106	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.	5.8	2
107	Axial Redox Tuning at a Tetragonal Cobalt Center. <i>Inorganic Chemistry</i> , 2021, 60, 5647-5659.	4.0	2
108	Sustained Release of Bone Morphogenetic Protein-2 through Alginate Microbeads Enhances Bone Regeneration in Rabbit Tibial Metaphyseal Defect Model. <i>Materials</i> , 2021, 14, 2600.	2.9	2

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109	Gravity Applied Particle Separation in Nanoliter Volume Fluid System Toward Complexed Biosample Sorting. Journal of Nanoscience and Nanotechnology, 2016, 16, 11892-11895.	0.9	2
110	Frontispiece: Conformational Adaptation of β -Peptide Foldamers for the Formation of Metal β -Peptide Frameworks. Angewandte Chemie - International Edition, 2022, 61, .	13.8	2
111	Cytotoxicity of the photoluminescent silicon nanocrystals. Proceedings of SPIE, 2007, , .	0.8	1
112	Interactions between mesenchymal stem cells and T cells on a single cell level a nanowell array. , 2012, , .		1
113	Binding of carbon monoxide at a single nickel center and its oxidative reactivity toward CO_2 and O_2 . Bulletin of the Korean Chemical Society, 2022, 43, 222-226.	1.9	1
114	Covalent attachment of photoluminescent silicon nanoparticles to streptavidin. , 2007, , .		0
115	An Environmentally-Conscious Approach to the Synthesis and Separation of Ultrasmall Si Nanoparticles. Journal of Nanoscience and Nanotechnology, 2016, 16, 7091-7095.	0.9	0
116	Recent Patents of Nanodevices for Single Cell Immunological Assays. Recent Patents on Nanotechnology, 2011, 5, 178-187.	1.3	0
117	Frontispiz: Conformational Adaptation of β -Peptide Foldamers for the Formation of Metal β -Peptide Frameworks. Angewandte Chemie, 2022, 134, .	2.0	0