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	Conformational Adaptation of Î²â€Peptide Foldamers for the Formation of Metalâ€“Peptide Frameworks. Angewandte Chemie - International Edition, 2022, 61, .	13.8	14
2	Conformational Adaptation of Î²â€Peptide Foldamers for the Formation of Metalâ€“Peptide Frameworks. Angewandte Chemie, 2022, 134, .	2.0	5
3	Nickel-Catalyzed NO Group Transfer Coupled with NO_x Conversion. Journal of the American Chemical Society, 2022, 144, 4585-4593.	13.7	6
4	Frontispiz: Conformational Adaptation of Î²â€Peptide Foldamers for the Formation of Metalâ€“Peptide Frameworks. Angewandte Chemie, 2022, 134, .	2.0	0
5	Binding of carbon monoxide at a single nickel center and its oxidative reactivity toward <scp>CO₂</scp> and <scp>O₂</scp>. Bulletin of the Korean Chemical Society, 2022, 43, 222-226.	1.9	1
6	Frontispiece: Conformational Adaptation of Î²â€Peptide Foldamers for the Formation of Metalâ€“Peptide Frameworks. Angewandte Chemie - International Edition, 2022, 61, .	13.8	2
7	Axial Redox Tuning at a Tetragonal Cobalt Center. Inorganic Chemistry, 2021, 60, 5647-5659.	4.0	2
8	Eco-Friendly Dye-Sensitized Solar Cells Based on Water-Electrolytes and Chlorophyll. Materials, 2021, 14, 2150.	2.9	8
9	Sustained Release of Bone Morphogenetic Protein-2 through Alginate Microbeads Enhances Bone Regeneration in Rabbit Tibial Metaphyseal Defect Model. Materials, 2021, 14, 2600.	2.9	2
10	Synthesis of near-infrared absorbing triangular Au nanoplates using biomineralisation peptides. Acta Biomaterialia, 2021, 131, 519-531.	8.3	7
11	Oxygen transport to mammalian cell and bacteria using nano-sized liposomes encapsulating oxygen molecules. Journal of Bioscience and Bioengineering, 2021, 132, 657-665.	2.2	5
12	Inhalable nanoparticles delivery targeting alveolar macrophages for the treatment of pulmonary tuberculosis. Journal of Bioscience and Bioengineering, 2021, 132, 543-551.	2.2	27
13	Peptide Specific Nanoplastic Detection Based on Sandwich Typed Localized Surface Plasmon Resonance. Nanomaterials, 2021, 11, 2887.	4.1	7
14	Methods of Analyzing Microsized Plastics in the Environment. Applied Sciences (Switzerland), 2021, 11, 10640.	2.5	35
15	Engineering of alkyl-terminated silicon nanoparticles for the selective filtration of copper ions. Journal of Industrial and Engineering Chemistry, 2020, 82, 197-204.	5.8	2
16	Development of silver/graphene oxide nanocomposites for antibacterial and antibiofilm applications. Journal of Industrial and Engineering Chemistry, 2020, 83, 46-52.	5.8	29
17	Development of Antibiofilm Nanocomposites: Ag/Cu Bimetallic Nanoparticles Synthesized on the Surface of Graphene Oxide Nanosheets. ACS Applied Materials & Interfaces, 2020, 12, 35826-35834.	8.0	45
18	Self-Assembling Î²-Glucan Nanomedicine for the Delivery of siRNA. Biomedicines, 2020, 8, 497.	3.2	6

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19	Stability of Engineered Micro or Nanobubbles for Biomedical Applications. Pharmaceutics, 2020, 12, 1089.	4.5	17
20	Methods and Applications of Biomolecular Surface Coatings on Individual Cells. ACS Applied Bio Materials, 2020, 3, 6556-6570.	4.6	5
21	Nanomaterials for Biomedical Applications. Biotechnology Journal, 2020, 15, e2000574.	3.5	6
22	Divergent Strategies for the Ï€-Extension of Heteroaryl Halides Using Norbornadiene as an Acetylene Synthon. Organic Letters, 2020, 22, 9670-9676.	4.6	12
23	NIR Laser-Responsive PNIPAM and Gold Nanorod Composites for the Engineering of Thermally Reactive Drug Delivery Nanomedicine. Pharmaceutics, 2020, 12, 204.	4.5	17
24	Stimuli-Responsive Nanomaterials for Application in Antitumor Therapy and Drug Delivery. Pharmaceutics, 2020, 12, 630.	4.5	106
25	Regulation of Electromagnetic Perceptive Gene Using Ferromagnetic Particles for the External Control of Calcium Ion Transport. Biomolecules, 2020, 10, 308.	4.0	19
26	Facile fabrication of polyaniline films with hierarchical porous networks for enhanced electrochemical activity. Journal of Industrial and Engineering Chemistry, 2020, 86, 81-89.	5.8	4
27	Catalytic hydrogenation of CO₂ at a structurally rigidified cobalt center. Inorganic Chemistry Frontiers, 2020, 7, 1845-1850.	6.0	6
28	Potential toxicity of polystyrene microplastic particles. Scientific Reports, 2020, 10, 7391.	3.3	303
29	Array-Based Screening of Silver Nanoparticle Mineralization Peptides. International Journal of Molecular Sciences, 2020, 21, 2377.	4.1	11
30	Effective delivery of mycophenolic acid by oxygen nanobubbles for modulating immunosuppression. Theranostics, 2020, 10, 3892-3904.	10.0	9
31	Biological Responses of Onion-Shaped Carbon Nanoparticles. Nanomaterials, 2019, 9, 1016.	4.1	11
32	Enhanced Detection of Infectious Pancreatic Necrosis Virus via Lateral Flow Chip and Fluorometric Biosensors Based on Self-Assembled Protein Nanoprobes. ACS Sensors, 2019, 4, 2937-2944.	7.8	22
33	Effective Delivery of Anti-Cancer Drug Molecules with Shape Transforming Liquid Metal Particles. Cancers, 2019, 11, 1666.	3.7	34
34	DNA aptamer immobilized hydroxyapatite for enhancing angiogenesis and bone regeneration. Acta Biomaterialia, 2019, 99, 469-478.	8.3	31
35	Anti-Tumor Drug-Loaded Oxygen Nanobubbles for the Degradation of HIF-1Î± and the Upregulation of Reactive Oxygen Species in Tumor Cells. Cancers, 2019, 11, 1464.	3.7	41
36	Ligand-Controlled Direct Hydroformylation of Trisubstituted Olefins. Organic Letters, 2019, 21, 5789-5792.	4.6	17

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37	An assessment of the toxicity of polypropylene microplastics in human derived cells. Science of the Total Environment, 2019, 684, 657-669.	8.0	359
38	A Lowâ€Spin Threeâ€Coordinate Cobalt(I) Complex and Its Reactivity toward H₂ and Silane. Angewandte Chemie - International Edition, 2019, 58, 6938-6942.	13.8	26
39	A Lowâ€Spin Threeâ€Coordinate Cobalt(I) Complex and Its Reactivity toward H 2 and Silane. Angewandte Chemie, 2019, 131, 7012-7016.	2.0	10
40	Current Immunotherapy Approaches for Malignant Melanoma. Biochip Journal, 2019, 13, 105-114.	4.9	10
41	Quantification of Unknown Nanoscale Biomolecules Using the Average-Weight-Difference Method. Applied Sciences (Switzerland), 2019, 9, 130.	2.5	6
42	Interface Engineering of Fully Metallic Stents Enabling Controllable H2O2Generation for Antirestenosis. Langmuir, 2019, 35, 3634-3642.	3.5	6
43	Artificial cellular nano-environment composed of collagen-based nanofilm promotes osteogenic differentiation of mesenchymal stem cells. Acta Biomaterialia, 2019, 86, 247-256.	8.3	26
44	Surface Composition and Preparation Method for Oxygen Nanobubbles for Drug Delivery and Ultrasound Imaging Applications. Nanomaterials, 2019, 9, 48.	4.1	30
45	Synthesis and Functionalization of Î²-Glucan Particles for the Effective Delivery of Doxorubicin Molecules. ACS Omega, 2019, 4, 668-674.	3.5	32
46	Probing characteristics of cancer cells cultured on engineered platforms simulating different microenvironments. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, 1170-1179.	2.8	6
47	Designing Redoxâ€Stable Cobaltâ€“Polypyridyl Complexes for Redox Flow Batteries: Spinâ€Crossover Delocalizes Excess Charge. Advanced Energy Materials, 2018, 8, 1702897.	19.5	38
48	Use of Nanoscale Materials for the Effective Prevention and Extermination of Bacterial Biofilms. Biotechnology and Bioprocess Engineering, 2018, 23, 1-10.	2.6	26
49	Strategies for the optimization of bead-immunoassays for the effective detection of target biomolecules. Korean Journal of Chemical Engineering, 2018, 35, 805-811.	2.7	4
50	Enhanced Doubly Activated Dual Emission Fluorescent Probes for Selective Imaging of Glutathione or Cysteine in Living Systems. Analytical Chemistry, 2018, 90, 2648-2654.	6.5	137
51	Surface conjugation of poly (dimethyl siloxane) with itaconic acid-based materials for antibacterial effects. Applied Surface Science, 2018, 437, 245-256.	6.1	15
52	Functional silica nanoparticles conjugated with beta-glucan to deliver anti-tuberculosis drug molecules. Journal of Industrial and Engineering Chemistry, 2018, 58, 376-385.	5.8	25
53	Chemoresistance of Cancer Cells: Requirements of Tumor Microenvironment-mimicking In Vitro Models in Anti-Cancer Drug Development. Theranostics, 2018, 8, 5259-5275.	10.0	138
54	Oxygen-Carrying Micro/Nanobubbles: Composition, Synthesis Techniques and Potential Prospects in Photo-Triggered Theranostics. Molecules, 2018, 23, 2210.	3.8	58

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55	Synthesis of Beta-glucan Nanoparticles for the Delivery of Single Strand DNA. Biotechnology and Bioprocess Engineering, 2018, 23, 144-149.	2.6	33
56	Synthesis of Multi-walled Carbon Nanotubes Modified with Silver Nanoparticles and Evaluation of Their Antibacterial Activities and Cytotoxic Properties. Journal of Visualized Experiments, 2018, , .	0.3	3
57	Engineering copper nanoparticles synthesized on the surface of carbon nanotubes for anti-microbial and anti-biofilm applications. Nanoscale, 2018, 10, 15529-15544.	5.6	61
58	Stereocontrolled, Divergent, Al(lll)-Catalyzed Coupling of Chiral N-Aryl Epoxy Amines and CO₂. Organic Letters, 2018, 20, 5036-5039.	4.6	24
59	Mechanisms of Salinity Control in Sea Bass. Biotechnology and Bioprocess Engineering, 2018, 23, 271-277.	2.6	13
60	Engineering oxygen nanobubbles for the effective reversal of hypoxia. Artificial Cells, Nanomedicine and Biotechnology, 2018, 46, 318-327.	2.8	50
61	Bond Rotation in an Aromatic Carbaporphyrin: Allyliporphyrin. Chemistry - A European Journal, 2018, 24, 10054-10058.	3.3	10
62	Synthesis and Characterization of Functional Nanofilm-Coated Live Immune Cells. ACS Applied Materials & Interfaces, 2018, 10, 17685-17692.	8.0	17
63	Engineered nanomaterials for their applications in theragnostics. Journal of Industrial and Engineering Chemistry, 2018, 66, 20-28.	5.8	10
64	Optical Immunosensors for the Efficient Detection of Target Biomolecules. Biotechnology and Bioprocess Engineering, 2018, 23, 123-133.	2.6	21
65	Development of electrochemical biosensor for detection of pathogenic microorganism in Asian dust events. Chemosphere, 2017, 175, 269-274.	8.2	35
66	Conductive biomaterials for tissue engineering applications. Journal of Industrial and Engineering Chemistry, 2017, 51, 12-26.	5.8	98
67	Green synthesis of silver nanoparticles using Î²-glucan, and their incorporation into doxorubicin-loaded water-in-oil nanoemulsions for antitumor and antibacterial applications. Journal of Industrial and Engineering Chemistry, 2017, 47, 179-186.	5.8	34
68	In vitro blood cell viability profiling of polymers used in molecular assembly. Scientific Reports, 2017, 7, 9481.	3.3	76
69	Multicomponent High-throughput Drug Screening via Inkjet Printing to Verify the Effect of Immunosuppressive Drugs on Immune T Lymphocytes. Scientific Reports, 2017, 7, 6318.	3.3	10
70	Engineered chitosanâ€“xanthan gum biopolymers effectively adhere to cells and readily release incorporated antiseptic molecules in a sustained manner. Journal of Industrial and Engineering Chemistry, 2017, 46, 68-79.	5.8	33
71	Preparation and characterization of graphene oxide supported Cu, Cu2O, and CuO nanocomposites and their high photocatalytic activity for organic dye molecule. Current Applied Physics, 2017, 17, 137-145.	2.4	76
72	Separation of extracellular nanovesicles and apoptotic bodies from cancer cell culture broth using tunable microfluidic systems. Scientific Reports, 2017, 7, 9907.	3.3	61

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73	Sensitive detection of copper ions via ion-responsive fluorescence quenching of engineered porous silicon nanoparticles. Scientific Reports, 2016, 6, 35565.	3.3	22
74	The targeted delivery of the c-Src peptide complexed with schizophyllan to macrophages inhibits polymicrobial sepsis and ulcerative colitis in mice. Biomaterials, 2016, 89, 1-13.	11.4	42
75	A Microfluidic Approach to Investigating a Synergistic Effect of Tobramycin and Sodium Dodecyl Sulfate on Pseudomonas aeruginosa Biofilms. Analytical Sciences, 2016, 32, 67-73.	1.6	10
76	Aptamer-conjugated live human immune cell based biosensors for the accurate detection of C-reactive protein. Scientific Reports, 2016, 6, 34778.	3.3	16
77	Engineered self-expander hydrogel for sustained release of drug molecules. Journal of Industrial and Engineering Chemistry, 2016, 42, 121-125.	5.8	5
78	Perspectives on the nanotechnology applications of for the analytical detection of heavy metals in marine organisms. Biotechnology and Bioprocess Engineering, 2016, 21, 191-198.	2.6	4
79	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
80	Nano-film coatings onto collagen hydrogels with desired drug release. Journal of Industrial and Engineering Chemistry, 2016, 36, 326-333.	5.8	43
81	Effective delivery of immunosuppressive drug molecules by silica coated iron oxide nanoparticles. Colloids and Surfaces B: Biointerfaces, 2016, 142, 290-296.	5.0	40
82	Engineered nanoconstructs for the multiplexed and sensitive detection of high-risk pathogens. Nanoscale, 2016, 8, 1944-1951.	5.6	22
83	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
84	Micro 3D cell culture systems for cellular behavior studies: Culture matrices, devices, substrates, and inâ€situ sensing methods. Biotechnology Journal, 2015, 10, 1682-1688.	3.5	36
85	Enhanced detection of single-cell-secreted proteins using a fluorescent immunoassay on the protein-G-terminated glass substrate. International Journal of Nanomedicine, 2015, 10, 7197.	6.7	5
86	Biomimetics: forecasting the future of science, engineering, and medicine. International Journal of Nanomedicine, 2015, 10, 5701.	6.7	83
87	A novel nanoprobe for the sensitive detection of Francisella tularensis. Journal of Hazardous Materials, 2015, 298, 188-194.	12.4	10
88	Chlorhexidine-loaded xanthan gum-based biopolymers for targeted, sustained release of antiseptic agent. Journal of Industrial and Engineering Chemistry, 2015, 32, 44-48.	5.8	12
89	Fast and sensitive detection of an anthrax biomarker using SERS-based solenoid microfluidic sensor. Biosensors and Bioelectronics, 2015, 72, 230-236.	10.1	84
90	Simple Preparation of Fluorescent Silicon Nanoparticles from Used Si Wafers. Industrial & Engineering Chemistry Research, 2015, 54, 5982-5989.	3.7	18

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91	A glimpse into the interactions of cells in a microenvironment: the modulation of T cells by mesenchymal stem cells. International Journal of Nanomedicine, 2014, 9 Suppl 1, 127.	6.7	6
92	Engineered collagen hydrogels for the sustained release of biomolecules and imaging agents: promoting the growth of human gingival cells. International Journal of Nanomedicine, 2014, 9, 5189.	6.7	20
93	Antibacterial activity and cytotoxicity of multi-walled carbon nanotubes decorated with silver nanoparticles. International Journal of Nanomedicine, 2014, 9, 4621.	6.7	61
94	Microdevices for examining immunological responses of single cells to HIV. Bioscience Reports, 2014, 34, .	2.4	4
95	Assessment of Size-Dependent Antimicrobial and Cytotoxic Properties of Silver Nanoparticles. Advances in Materials Science and Engineering, 2014, 2014, 1-6.	1.8	105
96	Technology Advancement for Integrative Stem Cell Analyses. Tissue Engineering - Part B: Reviews, 2014, 20, 669-682.	4.8	4
97	Overview of current standpoints in profiling of circulating tumor cells. Archives of Pharmacal Research, 2014, 37, 88-95.	6.3	3
98	Electrochemical Synthesis of Red Fluorescent Silicon Nanoparticles. Bulletin of the Korean Chemical Society, 2014, 35, 35-38.	1.9	9
99	The solvothermal synthesis of magnetic iron oxide nanocrystals and the preparation of hybrid poly(l-lactide)â€“polyethyleneimine magnetic particles. Colloids and Surfaces B: Biointerfaces, 2013, 109, 236-243.	5.0	21
100	Harnessing immunomagnetic separation and quantum dot-based quantification capacities for the enumeration of absolute levels of biomarker. Nanotechnology, 2013, 24, 285103.	2.6	9
101	Facile Solvothermal Preparation of Monodisperse Gold Nanoparticles and Their Engineered Assembly of Ferritinâ€“Gold Nanoclusters. Langmuir, 2013, 29, 15698-15703.	3.5	35
102	Microtools for single-cell analysis in biopharmaceutical development and manufacturing. Trends in Biotechnology, 2013, 31, 280-286.	9.3	58
103	Interactions between mesenchymal stem cells and T cells on a single cell level a nanowell array. , 2012, , .		1
104	Immuno-Hybridization Chain Reaction for Enhancing Detection of Individual Cytokine-Secreting Human Peripheral Mononuclear Cells. Analytical Chemistry, 2011, 83, 6890-6895.	6.5	105
105	Cell-surface sensors for real-time probing of cellular environments. Nature Nanotechnology, 2011, 6, 524-531.	31.5	201
106	Mesoporous Silica-Coated Hollow Manganese Oxide Nanoparticles as Positive T₁ Contrast Agents for Labeling and MRI Tracking of Adipose-Derived Mesenchymal Stem Cells. Journal of the American Chemical Society, 2011, 133, 2955-2961.	13.7	491
107	Multimodal imaging of sustained drug release from 3-D poly(propylene fumarate) (PPF) scaffolds. Journal of Controlled Release, 2011, 156, 239-245.	9.9	58
108	Physicochemical Characterization and In Vitro Hemolysis Evaluation of Silver Nanoparticles. Toxicological Sciences, 2011, 123, 133-143.	3.1	248

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109	Recent Patents of Nanodevices for Single Cell Immunological Assays. Recent Patents on Nanotechnology, 2011, 5, 178-187.	1.3	0
110	Measurement of Nanoparticle Concentration Using Quartz Crystal Microgravimetry. Journal of Physical Chemistry B, 2010, 114, 16112-16117.	2.6	33
111	Comparison of cytotoxic and inflammatory responses of photoluminescent silicon nanoparticles with silicon micronâ€sized particles in RAW 264.7 macrophages. Journal of Applied Toxicology, 2009, 29, 52-60.	2.8	103
112	Electrochemical Reduction Synthesis of Photoluminescent Silicon Nanocrystals. Langmuir, 2009, 25, 7097-7102.	3.5	24
113	Conjugation of the Photoluminescent Silicon Nanoparticles to Streptavidin. Bioconjugate Chemistry, 2008, 19, 680-685.	3.6	49
114	Small-angle neutron scattering measurement of silicon nanoparticle size. Nanotechnology, 2008, 19, 085715.	2.6	26
115	Cytotoxicity of the photoluminescent silicon nanocrystals. Proceedings of SPIE, 2007, , .	0.8	1
116	Covalent attachment of photoluminescent silicon nanoparticles to streptavidin. , 2007, , .		0
117	Photoassisted Tuning of Silicon Nanocrystal Photoluminescence. Langmuir, 2007, 23, 3388-3394.	3.5	54