

Inhee Choi

List of Publications by Year in descending order

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106
papers

2,426
citations

257450

24
h-index

223800

46
g-index

107
all docs

107
docs citations

107
times ranked

3921
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensitive and Homogeneous Surface-Enhanced Raman Scattering Detection Using Heterometallic Interfaces on Metal-Organic Framework-Derived Structure. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	6
2	Gold and silver plasmonic nanoprobe trace the positions of histone codes. <i>BMB Reports</i> , 2022, 55, 111-112.	2.4	0
3	Optical Detection of Copper Ions <i>via</i> Structural Dissociation of Plasmonic Sugar Nanoprobes. <i>Analytical Chemistry</i> , 2022, 94, 5521-5529.	6.5	14
4	Redox/pH-dual responsive functional hollow silica nanoparticles for hyaluronic acid-guided drug delivery. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 108, 72-80.	5.8	19
5	Colloidal Multiscale Assembly via Photothermally Driven Convective Flow for Sensitive In-Solution Plasmonic Detections. <i>Small</i> , 2022, 18, e2201075.	10.0	5
6	Ultrasensitive and real-time optical detection of cellular oxidative stress using graphene-covered tunable plasmonic interfaces. <i>Nano Convergence</i> , 2022, 9, .	12.1	2
7	Extra- and Intracellular Monitoring of TGF- β^2 Using Single Immunoplasmonic Nanoprobes. <i>ACS Sensors</i> , 2021, 6, 1823-1830.	7.8	6
8	Sensitive and Direct Optical Monitoring of Release and Cellular Uptake of Aqueous CO from CO-Releasing Molecules. <i>Analytical Chemistry</i> , 2021, 93, 9927-9932.	6.5	3
9	High-spatial and colourimetric imaging of histone modifications in single senescent cells using plasmonic nanoprobe. <i>Nature Communications</i> , 2021, 12, 5899.	12.8	3
10	Induction of crystal nucleation by orientation-controlled binding of His ₆ -tagged proteins to functionalized gold nanoparticles. <i>CrystEngComm</i> , 2020, 22, 1032-1040.	2.6	0
11	Aqueous-Phase Synthesis of Hyaluronic Acid-Based Hydrogel Nanoparticles for Molecular Storage and Enzymatic Release. <i>ACS Applied Polymer Materials</i> , 2020, 2, 342-350.	4.4	5
12	Graphene oxide-induced neurotoxicity on neurotransmitters, AFD neurons and locomotive behavior in <i>Caenorhabditis elegans</i> . <i>NeuroToxicology</i> , 2020, 77, 30-39.	3.0	23
13	Identification of adverse outcome pathway related to high-density polyethylene microplastics exposure: <i>Caenorhabditis elegans</i> transcription factor RNAi screening and zebrafish study. <i>Journal of Hazardous Materials</i> , 2020, 388, 121725.	12.4	34
14	Dual Mode Rapid Plasmonic Detections of Chemical Disinfectants (CMIT/MIT) Using Target-Mediated Selective Aggregation of Gold Nanoparticles. <i>Analytical Chemistry</i> , 2020, 92, 4201-4208.	6.5	17
15	Intracellular Nanomaterial Delivery <i>via</i> Spiral Hydroporation. <i>ACS Nano</i> , 2020, 14, 3048-3058.	14.6	45
16	Adjustable and Versatile 3D Tumor Spheroid Culture Platform with Interfacial Elastomeric Wells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 6924-6932.	8.0	20
17	Active Surface Hydrophobicity Switching and Dynamic Interfacial Trapping of Microbial Cells by Metal Nanoparticles for Preconcentration and In-Plane Optical Detection. <i>Nano Letters</i> , 2019, 19, 7449-7456.	9.1	9
18	Optical Detection of Small Metabolites for Biological Gas Conversion by using Metal Nanoparticle Monolayers Produced by Capillary-Assisted Transfer. <i>Analytical Chemistry</i> , 2019, 91, 13152-13157.	6.5	0

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19	Photothermally Enhanced Molecular Delivery and Cellular Positioning on Patterned Plasmonic Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 36420-36427.	8.0	8
20	Phase transfer-driven rapid and complete ligand exchange for molecular assembly of phospholipid bilayers on aqueous gold nanocrystals. <i>Chemical Communications</i> , 2019, 55, 3195-3198.	4.1	9
21	Fabrication Strategies of 3D Plasmonic Structures for SERS. <i>Biochip Journal</i> , 2019, 13, 30-42.	4.9	36
22	Multifunctional and recyclable TiO ₂ hybrid sponges for efficient sorption, detection, and photocatalytic decomposition of organic pollutants. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 73, 328-335.	5.8	20
23	On-chip plasmonic immunoassay based on targeted assembly of gold nanoplasmonic particles. <i>Analyst</i> , 2019, 144, 2820-2826.	3.5	7
24	Facile Amplification of Solution-State Surface-Enhanced Raman Scattering of Small Molecules Using Spontaneously Formed 3D Nanoplasmonic Wells. <i>Analytical Chemistry</i> , 2018, 90, 5023-5031.	6.5	21
25	Tunable Plasmonic Cavity for Label-free Detection of Small Molecules. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 13226-13235.	8.0	33
26	Developing adverse outcome pathways on silver nanoparticle-induced reproductive toxicity via oxidative stress in the nematode <i>Caenorhabditis elegans</i> using a Bayesian network model. <i>Nanotoxicology</i> , 2018, 12, 1182-1197.	3.0	29
27	Photothermal Convection Lithography for Rapid and Direct Assembly of Colloidal Plasmonic Nanoparticles on Generic Substrates. <i>Small</i> , 2018, 14, e1803055.	10.0	37
28	Controlled drug release with surface-capped mesoporous silica nanoparticles and its label-free in situ Raman monitoring. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 131, 232-239.	4.3	15
29	Facile Fabrication of Large-Scale Porous and Flexible Three-Dimensional Plasmonic Networks. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 28242-28249.	8.0	12
30	3D Assembly of Metal Nanoparticles at Oleic Acid/Water Interface via Their Autonomous and Rapid Interfacial Locomotion. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800981.	3.7	4
31	DPP-IV Inhibitory Potentials of Flavonol Glycosides Isolated from the Seeds of <i>Lens culinaris</i> : In Vitro and Molecular Docking Analyses. <i>Molecules</i> , 2018, 23, 1998.	3.8	57
32	High-throughput drug screening using the Ebola virus transcription- and replication-competent virus-like particle system. <i>Antiviral Research</i> , 2018, 158, 226-237.	4.1	19
33	Gold Nanoparticles as Nucleation-Inducing Reagents for Protein Crystallization. <i>Crystal Growth and Design</i> , 2017, 17, 497-503.	3.0	14
34	Rapid and high-throughput colorimetric screening for anti-aggregation reagents of protein conformational diseases by using gold nanoplasmonic particles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 1575-1585.	3.3	4
35	Determination of nanomolar levels of reactive oxygen species in microorganisms and aquatic environments using a single nanoparticle-based optical sensor. <i>Analytica Chimica Acta</i> , 2017, 967, 85-92.	5.4	8
36	A gold nanoparticle-mediated rapid in vitro assay of anti-aggregation reagents for amyloid β^2 and its validation. <i>Chemical Communications</i> , 2017, 53, 4449-4452.	4.1	12

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37	Real-Time Optical Monitoring of Pt Catalyst Under the Potentiodynamic Conditions. Scientific Reports, 2016, 6, 38847.	3.3	0
38	Integrated Microalgae Analysis Photobioreactor for Rapid Strain Selection. ACS Nano, 2016, 10, 5635-5642.	14.6	3
39	Recent Advances in Nanoplasmonic Sensors for Environmental Detection and Monitoring. Journal of Nanoscience and Nanotechnology, 2016, 16, 4274-4283.	0.9	14
40	Spontaneous Self-Formation of 3D Plasmonic Optical Structures. ACS Nano, 2016, 10, 7639-7645.	14.6	25
41	Ultrafast colorimetric determination of predominant protein structure evolution with gold nanoplasmonic particles. Nanoscale, 2016, 8, 1952-1959.	5.6	10
42	A single nanoparticle-based sensor for hydrogen peroxide (H_2O_2) via cytochrome c-mediated plasmon resonance energy transfer. Chemical Communications, 2015, 51, 15370-15373.	4.1	26
43	Solution based, on chip direct growth of three-dimensionally wrinkled gold nanoparticles for a SERS active substrate. Chemical Communications, 2015, 51, 213-216.	4.1	14
44	Graphene Nanopore with Self-Aligned Plasmonic Optical Antenna. Biophysical Journal, 2014, 106, 414a.	0.5	2
45	Graphene Nanopore with a Self-Integrated Optical Antenna. Nano Letters, 2014, 14, 5584-5589.	9.1	79
46	On-Chip Fast Plasmonic Detection of Single Molecule Mirna for Cancer Diagnosis. Biophysical Journal, 2014, 106, 617a.	0.5	1
47	Rapid Detection of Protein Aggregation and Inhibition by Dual Functions of Gold Nanoplasmonic Particles: Catalytic Activator and Optical Reporter. Biophysical Journal, 2014, 106, 416a-417a.	0.5	4
48	Interfacial liquid-state surface-enhanced Raman spectroscopy. Nature Communications, 2013, 4, 2182.	12.8	117
49	On-Chip Colorimetric Detection of Cu^{2+} Ions via Density-Controlled Plasmonic Core-Satellites Nanoassembly. Analytical Chemistry, 2013, 85, 7980-7986.	6.5	31
50	Current nano/biotechnological approaches in amyotrophic lateral sclerosis. Biomedical Engineering Letters, 2013, 3, 209-222.	4.1	5
51	Label-free electrochemical monitoring of vasopressin in aptamer-based microfluidic biosensors. Analytica Chimica Acta, 2013, 759, 74-80.	5.4	38
52	Rapid Detection of $A\beta$ Aggregation and Inhibition by Dual Functions of Gold Nanoplasmonic Particles: Catalytic Activator and Optical Reporter. ACS Nano, 2013, 7, 6268-6277.	14.6	56
53	Real-time analysis and direct observations of different superoxide dismutase (SOD1) molecules bindings to aggregates in temporal evolution step. Colloids and Surfaces B: Biointerfaces, 2013, 101, 266-271.	5.0	10
54	Plasmonic Nanosensors: Review and Prospect. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 1110-1121.	2.9	94

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55	Colorimetric tracking of protein structural evolution based on the distance-dependent light scattering of embedded gold nanoparticles. <i>Chemical Communications</i> , 2012, 48, 2286.	4.1	15
56	Three-Dimensional Reduced-Symmetry of Colloidal Plasmonic Nanoparticles. <i>Nano Letters</i> , 2012, 12, 2436-2440.	9.1	29
57	Core-Satellites Assembly of Silver Nanoparticles on a Single Gold Nanoparticle via Metal Ion-Mediated Complex. <i>Journal of the American Chemical Society</i> , 2012, 134, 12083-12090.	13.7	68
58	Ultra-sensitive, label-free probing of the conformational characteristics of amyloid beta aggregates with a SERS active nanofluidic device. <i>Microfluidics and Nanofluidics</i> , 2012, 12, 663-669.	2.2	51
59	Size-selective concentration and label-free characterization of protein aggregates using a Raman active nanofluidic device. <i>Lab on A Chip</i> , 2011, 11, 632-638.	6.0	49
60	Lipid molecules induce the cytotoxic aggregation of Cu/Zn superoxide dismutase with structurally disordered regions. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2011, 1812, 41-48.	3.8	23
61	Formation of abnormally large-sized tubular amyloid β aggregates on a nanostructured gold surface. <i>Korean Journal of Chemical Engineering</i> , 2011, 28, 184-188.	2.7	0
62	Innentitelbild: Simultaneous Optical Monitoring of the Overgrowth Modes of Individual Asymmetric Hybrid Nanoparticles (<i>Angew. Chem.</i> 20/2011). <i>Angewandte Chemie</i> , 2011, 123, 4614-4614.	2.0	2
63	Simultaneous Optical Monitoring of the Overgrowth Modes of Individual Asymmetric Hybrid Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4633-4636.	13.8	12
64	Inside Cover: Simultaneous Optical Monitoring of the Overgrowth Modes of Individual Asymmetric Hybrid Nanoparticles (<i>Angew. Chem. Int. Ed.</i> 20/2011). <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4520-4520.	13.8	0
65	Direct Observation of Defects and Increased Ion Permeability of a Membrane Induced by Structurally Disordered Cu/Zn-Superoxide Dismutase Aggregates. <i>PLoS ONE</i> , 2011, 6, e28982.	2.5	15
66	Colorimetric Determination of pH Values using Silver Nanoparticles Conjugated with Cytochrome c. <i>Bulletin of the Korean Chemical Society</i> , 2011, 32, 3433-3436.	1.9	5
67	10.2478/s11814-009-0314-4. , 2011, 27, 324.		0
68	Selective Aggregation of Polyanion-Coated Gold Nanorods Induced by Divalent Metal Ions in an Aqueous Solution. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 3538-3542.	0.9	6
69	Dependence of approaching velocity on the force-distance curve in AFM analysis. <i>Korean Journal of Chemical Engineering</i> , 2010, 27, 324-327.	2.7	6
70	Picomolar selective detection of mercuric ion (Hg^{2+}) using a functionalized single plasmonic gold nanoparticle. <i>Nanotechnology</i> , 2010, 21, 145501.	2.6	25
71	Development of a novel biosensor for in-vitro observation of protein behaviors. , 2009, , .		0
72	Biomimetic sensors for the heavy metal detection. , 2009, , .		1

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73	Effect of laser beam focusing point on AFM measurements. Korean Journal of Chemical Engineering, 2009, 26, 496-499.	2.7	2
74	Fabrication of multicomponent protein microarrays with microfluidic devices of poly(dimethylsiloxane). Macromolecular Research, 2009, 17, 192-196.	2.4	11
75	Highly selective detection of Cu ²⁺ utilizing specific binding between Cu-demetalated superoxide dismutase 1 and the Cu ²⁺ ion via surface plasmon resonance spectroscopy. Chemical Communications, 2009, , 6171.	4.1	20
76	Sensitive and Colorimetric Detection of the Structural Evolution of Superoxide Dismutase with Gold Nanoparticles. Analytical Chemistry, 2009, 81, 1378-1382.	6.5	76
77	Highly selective modification of silicon oxide structures fabricated by an AFM anodic oxidation. Korean Journal of Chemical Engineering, 2008, 25, 386-389.	2.7	2
78	Fabrication of island-type microelectrode via AFM lithography for a highly sensitive Pt-ion detection system. Sensors and Actuators B: Chemical, 2008, 129, 734-740.	7.8	4
79	Label-free sensitive optical detection of polychlorinated biphenyl (PCB) in an aqueous solution based on surface plasmon resonance measurements. Sensors and Actuators B: Chemical, 2008, 134, 300-306.	7.8	20
80	Investigation on shape variation of Au nanocrystals. Current Applied Physics, 2008, 8, 810-813.	2.4	5
81	Fabrication of hierarchical micro/nanostructures via scanning probe lithography and wet chemical etching. Ultramicroscopy, 2008, 108, 1205-1209.	1.9	17
82	Construction of pcAFM module to measure photoconductance with a nanoscale spatial resolution. Ultramicroscopy, 2008, 108, 1090-1093.	1.9	6
83	Directed Positioning of Single Cells in Microwells Fabricated by Scanning Probe Lithography and Wet Etching Methods. Langmuir, 2008, 24, 2597-2602.	3.5	16
84	Fast image scanning method in liquid-AFM without image distortion. Nanotechnology, 2008, 19, 445701.	2.6	8
85	Urea-Driven Conformational Changes in Surface-Bound Superoxide Dismutase. Bulletin of the Korean Chemical Society, 2008, 29, 1451-1458.	1.9	4
86	Observation on Growth Process of Gold Y- and ï¿œ-shaped Nanoparticles in Solutions. Journal of Nanoscience and Nanotechnology, 2007, 7, 3823-3826.	0.9	0
87	Fabrication of 3D Functionalized Microstructure via Scanning Probe Lithography and Self-Assembly Methods. Journal of Nanoscience and Nanotechnology, 2007, 7, 4161-4164.	0.9	2
88	Interfacial kinetic enhancement of metal ion adsorption on binary mixed self-assembled monolayers. Applied Surface Science, 2007, 253, 7554-7558.	6.1	6
89	In situ observation of the behavior of superoxide dismutase aggregates on a patterned surface via scanning probe microscopy. Microelectronic Engineering, 2007, 84, 1766-1769.	2.4	0
90	Fabrication of a 3-dimensional microstructure by sequential anodic oxidation (SAO). Microelectronic Engineering, 2007, 84, 308-312.	2.4	2

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91	Fabrication of 3D functionalized microstructure via scanning probe lithography and self-assembly methods. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 4161-4.	0.9	0
92	Reversible pH-Driven Conformational Switching of Tethered Superoxide Dismutase with Gold Nanoparticle Enhanced Surface Plasmon Resonance Spectroscopy. <i>Journal of the American Chemical Society</i> , 2006, 128, 12870-12878.	13.7	66
93	Phase Separation of a Mixed Self-Assembled Monolayer Prepared via a Stepwise Method. <i>Langmuir</i> , 2006, 22, 4885-4889.	3.5	41
94	Aspect ratio control of Au nanorods via temperature and hydroxylamine concentration of reaction medium. <i>Current Applied Physics</i> , 2006, 6, e114-e120.	2.4	14
95	In situ observation of biomolecules patterned on a PEG-modified Si surface by scanning probe lithography. <i>Biomaterials</i> , 2006, 27, 4655-4660.	11.4	42
96	Synthesis of trans-substituted porphyrin building blocks containing two S-trityl or thiol groups. <i>Korean Journal of Chemical Engineering</i> , 2006, 23, 512-515.	2.7	6
97	Fast heating stage for open liquid-cell atomic force microscopy. <i>Review of Scientific Instruments</i> , 2006, 77, 036114.	1.3	4
98	Multifunctionalization of organosilanes on submicron-sized island-type electrodes for the selective detection of metal ions. <i>Applied Physics Letters</i> , 2006, 88, 013113.	3.3	8
99	Dependence of image distortion in a liquid-cell atomic force microscope on fluidic properties. <i>Applied Physics Letters</i> , 2006, 88, 173121.	3.3	9
100	Fabrication of submicron- or nano-sized mesa electrodes via AFM oxidation: Applications to metal ion detection. <i>Microelectronic Engineering</i> , 2005, 81, 341-348.	2.4	13
101	An array of Au nanoparticles on the nanopatterned Si(100). <i>Microelectronic Engineering</i> , 2005, 81, 389-393.	2.4	8
102	Fabrication of submicron-sized copper structures on pre-patterned self-assembled monolayer and Langmuir-Blodgett films. <i>Korean Journal of Chemical Engineering</i> , 2005, 22, 635-638.	2.7	5
103	Fabrication of submicron size electrode via nonetching method for metal ion detection. <i>Applied Physics Letters</i> , 2005, 86, 073113.	3.3	14
104	In situ Negative Patterning of p-Silicon via Scanning Probe Lithography in HF/EtOH Liquid Bridges. <i>Journal of the American Chemical Society</i> , 2005, 127, 9380-9381.	13.7	21
105	Response to Comment on "Arsenic Removal Using Mesoporous Alumina Prepared via a Templating Method". <i>Environmental Science & Technology</i> , 2004, 38, 3216-3216.	10.0	0
106	Arsenic Removal Using Mesoporous Alumina Prepared via a Templating Method. <i>Environmental Science & Technology</i> , 2004, 38, 924-931.	10.0	579