

Bong-Hyun Jun

List of Publications by Year in descending order

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180
papers

6,585
citations

76031

42
h-index

87275

74
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188
all docs

188
docs citations

188
times ranked

10308
citing authors

#	ARTICLE	IF	CITATIONS
1	Silver Nanoparticles: Synthesis and Application for Nanomedicine. <i>International Journal of Molecular Sciences</i> , 2019, 20, 865.	1.8	829
2	Ultrasensitive Flexible Graphene Based Field-Effect Transistor (FET)-Type Bioelectronic Nose. <i>Nano Letters</i> , 2012, 12, 5082-5090.	4.5	312
3	Nanoparticle Probes with Surface Enhanced Raman Spectroscopic Tags for Cellular Cancer Targeting. <i>Analytical Chemistry</i> , 2006, 78, 6967-6973.	3.2	262
4	Multifunctional Silver-Embedded Magnetic Nanoparticles as SERS Nanoprobes and Their Applications. <i>Small</i> , 2010, 6, 119-125.	5.2	184
5	Ultrafast photonic PCR. <i>Light: Science and Applications</i> , 2015, 4, e280-e280.	7.7	176
6	Nanovesicle-based bioelectronic nose platform mimicking human olfactory signal transduction. <i>Biosensors and Bioelectronics</i> , 2012, 35, 335-341.	5.3	149
7	Macroporous Polystyrene-Supported Palladium Catalyst Containing a Bulky <i>N</i> -Heterocyclic Carbene Ligand for Suzuki Reaction of Aryl Chlorides. <i>Organic Letters</i> , 2008, 10, 1609-1612.	2.4	132
8	Surface-enhanced Raman scattering-active nanostructures and strategies for bioassays. <i>Nanomedicine</i> , 2011, 6, 1463-1480.	1.7	127
9	Ultrasensitive, Biocompatible, Quantum-Dot-Embedded Silica Nanoparticles for Bioimaging. <i>Advanced Functional Materials</i> , 2012, 22, 1843-1849.	7.8	123
10	Near-Infrared SERS Nanoprobes with Plasmonic Au/Ag Hollow-Shell Assemblies for In Vivo Multiplex Detection. <i>Advanced Functional Materials</i> , 2013, 23, 3719-3727.	7.8	121
11	Synthesis, Properties, and Biological Applications of Metallic Alloy Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5174.	1.8	113
12	Mimicking the human smell sensing mechanism with an artificial nose platform. <i>Biomaterials</i> , 2012, 33, 1722-1729.	5.7	106
13	Bioelectronic nose with high sensitivity and selectivity using chemically functionalized carbon nanotube combined with human olfactory receptor. <i>Journal of Biotechnology</i> , 2012, 157, 467-472.	1.9	96
14	Molecular profiling of single circulating tumor cells from lung cancer patients. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E8379-E8386.	3.3	90
15	Surface-Enhanced Raman Spectroscopic-Encoded Beads for Multiplex Immunoassay. <i>ACS Combinatorial Science</i> , 2007, 9, 237-244.	3.3	86
16	Real-time monitoring of odorant-induced cellular reactions using surface plasmon resonance. <i>Biosensors and Bioelectronics</i> , 2009, 25, 55-60.	5.3	83
17	Copper-free Sonogashira cross-coupling reaction catalyzed by polymer-supported <i>N</i> -heterocyclic carbene palladium complex. <i>Tetrahedron Letters</i> , 2007, 48, 7079-7084.	0.7	82
18	Recent advances in the development of bioelectronic nose. <i>Biotechnology and Bioprocess Engineering</i> , 2010, 15, 22-29.	1.4	82

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19	Cell-based olfactory biosensor using microfabricated planar electrode. <i>Biosensors and Bioelectronics</i> , 2009, 24, 2659-2664.	5.3	80
20	Nanomaterial-Based Biosensor as an Emerging Tool for Biomedical Applications. <i>Annals of Biomedical Engineering</i> , 2012, 40, 1384-1397.	1.3	80
21	Duplex Bioelectronic Tongue for Sensing Umami and Sweet Tastes Based on Human Taste Receptor Nanovesicles. <i>ACS Nano</i> , 2016, 10, 7287-7296.	7.3	78
22	N-Heterocyclic carbene-palladium complex on polystyrene resin surface as polymer-supported catalyst and its application in Suzuki cross-coupling reaction. <i>Tetrahedron Letters</i> , 2004, 45, 5827-5831.	0.7	74
23	PSA Detection with Femtomolar Sensitivity and a Broad Dynamic Range Using SERS Nanoprobes and an Area-Scanning Method. <i>ACS Sensors</i> , 2016, 1, 645-649.	4.0	74
24	Fluorescence-Raman Dual Modal Endoscopic System for Multiplexed Molecular Diagnostics. <i>Scientific Reports</i> , 2015, 5, 9455.	1.6	73
25	Fluorescence-Based Multiplex Protein Detection Using Optically Encoded Microbeads. <i>Molecules</i> , 2012, 17, 2474-2490.	1.7	71
26	Target-specific near-IR induced drug release and photothermal therapy with accumulated Au/Ag hollow nanoshells on pulmonary cancer cell membranes. <i>Biomaterials</i> , 2015, 45, 81-92.	5.7	69
27	Protein separation and identification using magnetic beads encoded with surface-enhanced Raman spectroscopy. <i>Analytical Biochemistry</i> , 2009, 391, 24-30.	1.1	65
28	Facile synthesis of monodispersed silica-coated magnetic nanoparticles. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 2646-2649.	2.9	65
29	Enhancement of target specificity of CRISPR-Cas12a by using a chimeric DNA-RNA guide. <i>Nucleic Acids Research</i> , 2020, 48, 8601-8616.	6.5	63
30	Emerging ultrafast nucleic acid amplification technologies for next-generation molecular diagnostics. <i>Biosensors and Bioelectronics</i> , 2019, 141, 111448.	5.3	61
31	Microphysiological Analysis Platform of Pancreatic Islet Cell Spheroids. <i>Advanced Healthcare Materials</i> , 2018, 7, 1701111.	3.9	60
32	Magnetic surface-enhanced Raman spectroscopic (M-SERS) dots for the identification of bronchioalveolar stem cells in normal and lung cancer mice. <i>Biomaterials</i> , 2009, 30, 3915-3925.	5.7	58
33	Silica-Coated Magnetic Iron Oxide Nanoparticles Grafted onto Graphene Oxide for Protein Isolation. <i>Nanomaterials</i> , 2020, 10, 117.	1.9	57
34	Enzyme-amplified SERS immunoassay with Ag-Au bimetallic SERS hot spots. <i>Nano Research</i> , 2020, 13, 3338-3346.	5.8	56
35	Bubble-free rapid microfluidic PCR. <i>Biosensors and Bioelectronics</i> , 2019, 126, 725-733.	5.3	53
36	Multilayer Ag-Embedded Silica Nanostructure as a Surface-Enhanced Raman Scattering-Based Chemical Sensor with Dual-Function Internal Standards. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 40748-40755.	4.0	49

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37	High-performance bioelectronic tongue using ligand binding domain T1R1 VFT for umami taste detection. <i>Biosensors and Bioelectronics</i> , 2018, 117, 628-636.	5.3	49
38	Encoding peptide sequences with surface-enhanced Raman spectroscopic nanoparticles. <i>Chemical Communications</i> , 2011, 47, 2306-2308.	2.2	47
39	Recent Progress in Dye-Sensitized Solar Cells for Improving Efficiency: TiO ₂ Nanotube Arrays in Active Layer. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-17.	1.5	47
40	Highly sensitive and reliable SERS probes based on nanogap control of a Au-Ag alloy on silica nanoparticles. <i>RSC Advances</i> , 2017, 7, 7015-7021.	1.7	45
41	Polyethylene Glycol-Engrafted Graphene Oxide as Biocompatible Materials for Peptide Nucleic Acid Delivery into Cells. <i>Bioconjugate Chemistry</i> , 2018, 29, 528-537.	1.8	45
42	Enzyme-catalyzed Ag Growth on Au Nanoparticle-assembled Structure for Highly Sensitive Colorimetric Immunoassay. <i>Scientific Reports</i> , 2018, 8, 6290.	1.6	44
43	Nanophotonic Cell Lysis and Polymerase Chain Reaction with Gravity-Driven Cell Enrichment for Rapid Detection of Pathogens. <i>ACS Nano</i> , 2019, 13, 13866-13874.	7.3	44
44	Glucose detection using 4-mercaptophenyl boronic acid-incorporated silver nanoparticles-embedded silica-coated graphene oxide as a SERS substrate. <i>Biochip Journal</i> , 2017, 11, 46-56.	2.5	43
45	Recent advances in plasmonic dye-sensitized solar cells. <i>Journal of Solid State Chemistry</i> , 2018, 258, 271-282.	1.4	43
46	Prediction-based highly sensitive CRISPR off-target validation using target-specific DNA enrichment. <i>Nature Communications</i> , 2020, 11, 3596.	5.8	41
47	Multi-Shaped Ag Nanoparticles in the Plasmonic Layer of Dye-Sensitized Solar Cells for Increased Power Conversion Efficiency. <i>Nanomaterials</i> , 2017, 7, 136.	1.9	40
48	4-Mercaptobenzoic Acid Labeled Gold-Silver-Alloy-Embedded Silica Nanoparticles as an Internal Standard Containing Nanostructures for Sensitive Quantitative Thiram Detection. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4841.	1.8	40
49	Highly robust and optimized conjugation of antibodies to nanoparticles using quantitatively validated protocols. <i>Nanoscale</i> , 2017, 9, 2548-2555.	2.8	39
50	High-performance portable graphene field-effect transistor device for detecting Gram-positive and -negative bacteria. <i>Biosensors and Bioelectronics</i> , 2020, 167, 112514.	5.3	39
51	Enhancement of power conversion efficiency with TiO ₂ nanoparticles/nanotubes-silver nanoparticles composites in dye-sensitized solar cells. <i>Applied Surface Science</i> , 2018, 429, 23-28.	3.1	38
52	Large scale synthesis of surface-enhanced Raman scattering nanoprobes with high reproducibility and long-term stability. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 33, 22-27.	2.9	34
53	Simultaneous Detection of EGFR and VEGF in Colorectal Cancer using Fluorescence-Raman Endoscopy. <i>Scientific Reports</i> , 2017, 7, 1035.	1.6	33
54	Magnetic field induced aggregation of nanoparticles for sensitive molecular detection. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 7298.	1.3	32

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55	Chemically functionalized silica gel with alkynyl terminated monolayers as an efficient new material for removal of mercury ions from water. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 35, 376-382.	2.9	32
56	Binding model for eriodictyol to Jun-N terminal kinase and its anti-inflammatory signaling pathway. <i>BMB Reports</i> , 2013, 46, 594-599.	1.1	31
57	Î²-CD Dimer-immobilized Ag Assembly Embedded Silica Nanoparticles for Sensitive Detection of Polycyclic Aromatic Hydrocarbons. <i>Scientific Reports</i> , 2016, 6, 26082.	1.6	31
58	Assembly of Plasmonic and Magnetic Nanoparticles with Fluorescent Silica Shell Layer for Tri-functional SERS-Magnetic-Fluorescence Probes and Its Bioapplications. <i>Scientific Reports</i> , 2018, 8, 13938.	1.6	30
59	Real-time monitoring of geosmin based on an aptamer-conjugated graphene field-effect transistor. <i>Biosensors and Bioelectronics</i> , 2021, 174, 112804.	5.3	30
60	Enhancement of cellular olfactory signal by electrical stimulation. <i>Electrophoresis</i> , 2009, 30, 3283-3288.	1.3	29
61	Direct Identification of On-Bead Peptides Using Surface-Enhanced Raman Spectroscopic Barcoding System for High-Throughput Bioanalysis. <i>Scientific Reports</i> , 2015, 5, 10144.	1.6	29
62	Gold-silver bimetallic nanoparticles with a Raman labeling chemical assembled on silica nanoparticles as an internal-standard-containing nanoprobe. <i>Journal of Alloys and Compounds</i> , 2019, 779, 360-366.	2.8	29
63	High-Performance Conducting Polymer Nanotube-based Liquid-Ion Gated Field-Effect Transistor Aptasensor for Dopamine Exocytosis. <i>Scientific Reports</i> , 2020, 10, 3772.	1.6	29
64	Characterization and regulated naproxen release of hydroxypropyl cyclophoraose-pullulan microspheres. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 48, 108-118.	2.9	28
65	Advances in dynamic microphysiological organ-on-a-chip: Design principle and its biomedical application. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 71, 65-77.	2.9	28
66	Multi-Quantum Dots-Embedded Silica-Encapsulated Nanoparticle-Based Lateral Flow Assay for Highly Sensitive Exosome Detection. <i>Nanomaterials</i> , 2021, 11, 768.	1.9	27
67	Double-Layer Magnetic Nanoparticle-Embedded Silica Particles for Efficient Bio-Separation. <i>PLoS ONE</i> , 2015, 10, e0143727.	1.1	27
68	Control of Silver Coating on Raman Label Incorporated Gold Nanoparticles Assembled Silica Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1258.	1.8	26
69	Facile Histamine Detection by Surface-Enhanced Raman Scattering Using SiO ₂ @Au@Ag Alloy Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4048.	1.8	26
70	Highly sensitive near-infrared SERS nanoprobe for in vivo imaging using gold-assembled silica nanoparticles with controllable nanogaps. <i>Journal of Nanobiotechnology</i> , 2022, 20, 130.	4.2	26
71	Ag Nanoparticle-Functionalized Open-Ended Freestanding TiO ₂ Nanotube Arrays with a Scattering Layer for Improved Energy Conversion Efficiency in Dye-Sensitized Solar Cells. <i>Nanomaterials</i> , 2016, 6, 117.	1.9	25
72	Synthesis of photolabile o-nitroveratryloxycarbonyl (NVOC) protected peptide nucleic acid monomers. <i>Tetrahedron</i> , 2005, 61, 7967-7973.	1.0	23

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73	Au@Ag assembled on silica nanoprobe for visual semiquantitative detection of prostate-specific antigen. <i>Journal of Nanobiotechnology</i> , 2021, 19, 73.	4.2	23
74	Fabrication of biofunctional stents with endothelial progenitor cell specificity for vascular re-endothelialization. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 102, 744-751.	2.5	22
75	Multifunctional self-assembled monolayers via microcontact printing and degas-driven flow guided patterning. <i>Scientific Reports</i> , 2018, 8, 16763.	1.6	22
76	High-quantum yield alloy-typed core/shell CdSeZnS/ZnS quantum dots for bio-applications. <i>Journal of Nanobiotechnology</i> , 2022, 20, 22.	4.2	22
77	Radial Flow Assay Using Gold Nanoparticles and Rolling Circle Amplification to Detect Mercuric Ions. <i>Nanomaterials</i> , 2018, 8, 81.	1.9	21
78	Ultrasensitive Stress Biomarker Detection Using Polypyrrole Nanotube Coupled to a Field-Effect Transistor. <i>Micromachines</i> , 2020, 11, 439.	1.4	21
79	Lateral Flow Immunoassay with Quantum-Dot-Embedded Silica Nanoparticles for Prostate-Specific Antigen Detection. <i>Nanomaterials</i> , 2022, 12, 33.	1.9	21
80	Front-illuminated dye-sensitized solar cells with Ag nanoparticle-functionalized freestanding TiO ₂ nanotube arrays. <i>Chemical Physics Letters</i> , 2014, 614, 78-81.	1.2	20
81	Sensitive Colorimetric Detection of Prostate Specific Antigen Using a Peroxidase-Mimicking Anti-PSA Antibody Coated Au Nanoparticle. <i>Biochip Journal</i> , 2020, 14, 158-168.	2.5	20
82	Base Effects on Fabrication of Silver Nanoparticles Embedded Silica Nanocomposite for Surface-Enhanced Raman Scattering (SERS). <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 579-583.	0.9	19
83	Size effect of gold on Ag-coated Au nanoparticle-embedded silica nanospheres. <i>RSC Advances</i> , 2016, 6, 48644-48650.	1.7	19
84	Functionalized β -Cyclodextrin Immobilized on Ag-Embedded Silica Nanoparticles as a Drug Carrier. <i>International Journal of Molecular Sciences</i> , 2019, 20, 315.	1.8	19
85	Synthesis and Application of Silica-Coated Quantum Dots in Biomedicine. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10116.	1.8	19
86	Thin silica shell coated Ag assembled nanostructures for expanding generality of SERS analytes. <i>PLoS ONE</i> , 2017, 12, e0178651.	1.1	18
87	Multilayer fluorescence optically encoded beads for protein detection. <i>Analytical Biochemistry</i> , 2010, 396, 313-315.	1.1	17
88	Toward Integrated Molecular Diagnostic System (Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 on Biomedical Engineering, 2014, 61, 1506-1521.	2.5	17
89	Carbon-doped freestanding TiO ₂ nanotube arrays in dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2017, 41, 285-289.	1.4	17
90	SERS-Based Flavonoid Detection Using Ethylenediamine- β -Cyclodextrin as a Capturing Ligand. <i>Nanomaterials</i> , 2017, 7, 8.	1.9	17

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91	Ultrasensitive NIRâ€‘SERS Probes with Multiplexed Ratiometric Quantification for In Vivo Antibody Leads Validation. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700870.	3.9	17
92	Graphene Oxide Conjugated Magnetic Beads for RNA Extraction. <i>Chemistry - an Asian Journal</i> , 2017, 12, 1883-1888.	1.7	16
93	Dual Functionalized Freestanding TiO ₂ Nanotube Arrays Coated with Ag Nanoparticles and Carbon Materials for Dye-Sensitized Solar Cells. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 576.	1.3	16
94	Sensitive and selective detection of 4-aminophenol in the presence of acetaminophen using goldâ€‘silver coreâ€‘shell nanoparticles embedded in silica nanostructures. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 83, 208-213.	2.9	16
95	Fluorometric detection of influenza virus RNA by PCR-coupled rolling circle amplification generating G-quadruplex. <i>Sensors and Actuators B: Chemical</i> , 2017, 251, 894-901.	4.0	15
96	Highly Reproducible Surface-Enhanced Raman Scattering Detection of Alternariol Using Silver-Embedded Silica Nanoparticles. <i>Sensors</i> , 2020, 20, 3523.	2.1	15
97	Facile Method for Preparation of Silica Coated Monodisperse Superparamagnetic Microspheres. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-9.	1.5	14
98	Template-Assisted Plasmonic Nanogap Shells for Highly Enhanced Detection of Cancer Biomarkers. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1752.	1.8	14
99	Preparation of polydiacetylene immobilized optically encoded beads. <i>Journal of Colloid and Interface Science</i> , 2011, 355, 29-34.	5.0	13
100	Fabrication of mono-dispersed silica-coated quantum dot-assembled magnetic nanoparticles. <i>RSC Advances</i> , 2015, 5, 32072-32077.	1.7	13
101	Silver Nanoparticle-Embedded Thin Silica-Coated Graphene Oxide as an SERS Substrate. <i>Nanomaterials</i> , 2016, 6, 176.	1.9	13
102	Plasmonic and charging effects in dye-sensitized solar cells with Au nanoparticles incorporated into the channels of freestanding TiO ₂ nanotube arrays by an electrodeposition method. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 80, 311-317.	2.9	13
103	Single-photon-driven up-/down-conversion nanohybrids for <i>in vivo</i> mercury detection and real-time tracking. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1668-1677.	5.2	13
104	Expansion of the prime editing modality with Cas9 from <i>Francisella novicida</i> . <i>Genome Biology</i> , 2022, 23, 92.	3.8	13
105	Ligand immobilization on polydiacetylene-coated and surface-enhanced Raman scattering-encoded beads for label-free detection. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 21, 158-162.	2.9	12
106	Preparation of plasmonic magnetic nanoparticles and their light scattering properties. <i>RSC Advances</i> , 2015, 5, 21050-21053.	1.7	12
107	Preparation of plasmonic monolayer with Ag and Au nanoparticles for dye-sensitized solar cells. <i>Chemical Physics Letters</i> , 2017, 687, 152-157.	1.2	12
108	Facile method of preparing silver-embedded polymer beads and their antibacterial effect. <i>Journal of Materials Science</i> , 2010, 45, 3106-3108.	1.7	11

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109	Recyclable NHC-Ni Complex Immobilized on Magnetite/Silica Nanoparticles for C-S Cross-Coupling of Aryl Halides with Thiols. <i>Synlett</i> , 2010, 2010, 2518-2522.	1.0	11
110	Silver Nano/Microparticles: Modification and Applications. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2609.	1.8	11
111	Glucose Detection of 4-Mercaptophenylboronic Acid-Immobilized Gold-Silver Core-Shell Assembled Silica Nanostructure by Surface Enhanced Raman Scattering. <i>Nanomaterials</i> , 2021, 11, 948.	1.9	11
112	Recent Advances in Surface-Enhanced Raman Scattering Magnetic Plasmonic Particles for Bioapplications. <i>Nanomaterials</i> , 2021, 11, 1215.	1.9	11
113	Silver-Assembled Silica Nanoparticles in Lateral Flow Immunoassay for Visual Inspection of Prostate-Specific Antigen. <i>Sensors</i> , 2021, 21, 4099.	2.1	11
114	Improved Energy Conversion Efficiency of Dye-sensitized Solar Cells Fabricated using Open-ended TiO ₂ Nanotube Arrays with Scattering Layer. <i>Bulletin of the Korean Chemical Society</i> , 2014, 35, 1165-1168.	1.0	11
115	Sensitive detection of virus with broad dynamic range based on highly bright quantum dot-embedded nanoprobe and magnetic beads. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 90, 319-326.	2.9	10
116	Nonenzymatic Hydrogen Peroxide Detection Using Surface-Enhanced Raman Scattering of Gold-Silver Core-Shell-Assembled Silica Nanostructures. <i>Nanomaterials</i> , 2021, 11, 2748.	1.9	10
117	Liposome solubilization induced by complexation with dimeric β -cyclodextrin. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2014, 80, 427-435.	0.9	9
118	Supramolecular self-assembled aggregates formed by pentacosyl-10,12-dimethyl- β -cyclodextrin. <i>Carbohydrate Research</i> , 2014, 391, 37-42.	1.1	9
119	Synthesis, Characterization, and Retinol Stabilization of Fatty Amide- β -cyclodextrin Conjugates. <i>Molecules</i> , 2016, 21, 963.	1.7	9
120	Single photomask lithography for shape modulation of micropatterns. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 84, 196-201.	2.9	9
121	A Lateral Flow Immunoassay for Prostate-Specific Antigen Detection Using CdSe@ZnS Quantum Dots. <i>Bulletin of the Korean Chemical Society</i> , 2020, 41, 989-993.	1.0	9
122	Magnetic Nanoparticles. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1309, 191-215.	0.8	9
123	Preparation of pore size controllable macroporous polymer beads. <i>Journal of Industrial and Engineering Chemistry</i> , 2011, 17, 794-798.	2.9	8
124	Quantum dot-assembled nanoparticles with polydiacetylene supramolecule toward label-free, multiplexed optical detection. <i>Journal of Colloid and Interface Science</i> , 2013, 394, 44-48.	5.0	8
125	A synthetic encapsulating emulsifier using complex-forming pentacosyl dihydroxyacetone derivatives (cyclic β -D-glucan). <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 44, 195-203.	2.9	8
126	Highly Sensitive Magnetic-SERS Dual-Function Silica Nanoprobes for Effective On-Site Organic Chemical Detection. <i>Nanomaterials</i> , 2017, 7, 146.	1.9	8

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127	Adenosine Triphosphate-Encapsulated Liposomes with Plasmonic Nanoparticles for Surface Enhanced Raman Scattering-Based Immunoassays. <i>Sensors</i> , 2017, 17, 1480.	2.1	8
128	Enhanced Efficiency in Dye-Sensitized Solar Cells by Electron Transport and Light Scattering on Freestanding TiO ₂ Nanotube Arrays. <i>Nanomaterials</i> , 2017, 7, 345.	1.9	8
129	Mono-6-Deoxy-6-Aminopropylamino- β -Cyclodextrin on Ag-Embedded SiO ₂ Nanoparticle as a Selectively Capturing Ligand to Flavonoids. <i>Nanomaterials</i> , 2019, 9, 1349.	1.9	8
130	Au-Nanoparticle-Embedded Open-Ended Freestanding TiO ₂ Nanotube Arrays in Dye-Sensitized Solar Cells for Better Electron Generation and Electron Transport. <i>ACS Omega</i> , 2019, 4, 20346-20352.	1.6	8
131	Substituent effects of phenylboronic acid-functionalized resins in pH-controlled separation of catecholic flavonoids. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 77, 164-170.	2.9	7
132	On-chip plasmonic immunoassay based on targeted assembly of gold nanoplasmonic particles. <i>Analyst</i> , 2019, 144, 2820-2826.	1.7	7
133	Au-Embedded and Carbon-Doped Freestanding TiO ₂ Nanotube Arrays in Dye-Sensitized Solar Cells for Better Energy Conversion Efficiency. <i>Micromachines</i> , 2019, 10, 805.	1.4	7
134	Fabrication of Remarkably Bright QD Densely Embedded Silica Nanoparticle. <i>Bulletin of the Korean Chemical Society</i> , 2019, 40, 9-13.	1.0	7
135	Graphical and SERS dual-modal identifier for encoding OBOC library. <i>Sensors and Actuators B: Chemical</i> , 2020, 303, 127211.	4.0	7
136	Synthesis of Densely Immobilized Gold-Assembled Silica Nanostructures. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2543.	1.8	7
137	Synthesis of Gold-Platinum Core-Shell Nanoparticles Assembled on a Silica Template and Their Peroxidase Nanozyme Properties. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6424.	1.8	7
138	Fabrication of Ag nanoaggregates/SiO ₂ core-shell nanoprobes for surface-enhanced Raman scattering. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 32, 34-38.	2.9	6
139	Synthesis of Finely Controllable Sizes of Au Nanoparticles on a Silica Template and Their Nanozyme Properties. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10382.	1.8	6
140	Optimizing the Aspect Ratio of Nanopatterned Mesoporous TiO ₂ Thin-Film Layer to Improve Energy Conversion Efficiency of Perovskite Solar Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12235.	1.8	6
141	Efficient Production of Naringin Acetate with Different Acyl Donors via Enzymatic Transesterification by Lipases. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 2972.	1.2	6
142	Immobilization of Aptamer-Based Molecular Beacons Onto Optically-Encoded Micro-Sized Beads. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 6249-6252.	0.9	5
143	Dye-sensitized solar cells with silica-coated quantum dot-embedded nanoparticles used as a light-harvesting layer. <i>New Journal of Chemistry</i> , 2014, 38, 910.	1.4	5
144	Endoscopic imaging using surface-enhanced Raman scattering. <i>European Journal of Nanomedicine</i> , 2017, 9, .	0.6	5

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145	Ag and Ag@Au Introduced Silica-coated Magnetic Beads. Bulletin of the Korean Chemical Society, 2018, 39, 250-256.	1.0	5
146	Surface Modification of a Stable CdSeZnS/ZnS Alloy Quantum Dot for Immunoassay. Journal of Nanomaterials, 2020, 2020, 1-9.	1.5	5
147	Silica Nanoparticles. Advances in Experimental Medicine and Biology, 2021, 1309, 41-65.	0.8	5
148	Lithography Technology for Micro- and Nanofabrication. Advances in Experimental Medicine and Biology, 2021, 1309, 217-233.	0.8	5
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