

# Bong-Hyun Jun

## List of Publications by Year in descending order

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180  
papers

6,585  
citations

66343

42  
h-index

76900

74  
g-index

188  
all docs

188  
docs citations

188  
times ranked

9135  
citing authors

#	ARTICLE	IF	CITATIONS
1	Silver Nanoparticles: Synthesis and Application for Nanomedicine. International Journal of Molecular Sciences, 2019, 20, 865.	4.1	829
2	Ultrasensitive Flexible Graphene Based Field-Effect Transistor (FET)-Type Bioelectronic Nose. Nano Letters, 2012, 12, 5082-5090.	9.1	312
3	Nanoparticle Probes with Surface Enhanced Raman Spectroscopic Tags for Cellular Cancer Targeting. Analytical Chemistry, 2006, 78, 6967-6973.	6.5	262
4	Multifunctional Silver-Embedded Magnetic Nanoparticles as SERS Nanoprobes and Their Applications. Small, 2010, 6, 119-125.	10.0	184
5	Ultrafast photonic PCR. Light: Science and Applications, 2015, 4, e280-e280.	16.6	176
6	Nanovesicle-based bioelectronic nose platform mimicking human olfactory signal transduction. Biosensors and Bioelectronics, 2012, 35, 335-341.	10.1	149
7	Macroporous Polystyrene-Supported Palladium Catalyst Containing a Bulky <i>N</i> -Heterocyclic Carbene Ligand for Suzuki Reaction of Aryl Chlorides. Organic Letters, 2008, 10, 1609-1612.	4.6	132
8	Surface-enhanced Raman scattering-active nanostructures and strategies for bioassays. Nanomedicine, 2011, 6, 1463-1480.	3.3	127
9	Ultrasensitive, Biocompatible, Quantum-Dot-Embedded Silica Nanoparticles for Bioimaging. Advanced Functional Materials, 2012, 22, 1843-1849.	14.9	123
10	Near-Infrared SERS Nanoprobes with Plasmonic Au/Ag Hollow-Shell Assemblies for In Vivo Multiplex Detection. Advanced Functional Materials, 2013, 23, 3719-3727.	14.9	121
11	Synthesis, Properties, and Biological Applications of Metallic Alloy Nanoparticles. International Journal of Molecular Sciences, 2020, 21, 5174.	4.1	113
12	Mimicking the human smell sensing mechanism with an artificial nose platform. Biomaterials, 2012, 33, 1722-1729.	11.4	106
13	Bioelectronic nose with high sensitivity and selectivity using chemically functionalized carbon nanotube combined with human olfactory receptor. Journal of Biotechnology, 2012, 157, 467-472.	3.8	96
14	Molecular profiling of single circulating tumor cells from lung cancer patients. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E8379-E8386.	7.1	90
15	Surface-Enhanced Raman Spectroscopic-Encoded Beads for Multiplex Immunoassay. ACS Combinatorial Science, 2007, 9, 237-244.	3.3	86
16	Real-time monitoring of odorant-induced cellular reactions using surface plasmon resonance. Biosensors and Bioelectronics, 2009, 25, 55-60.	10.1	83
17	Copper-free Sonogashira cross-coupling reaction catalyzed by polymer-supported N-heterocyclic carbene palladium complex. Tetrahedron Letters, 2007, 48, 7079-7084.	1.4	82
18	Recent advances in the development of bioelectronic nose. Biotechnology and Bioprocess Engineering, 2010, 15, 22-29.	2.6	82

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19	Cell-based olfactory biosensor using microfabricated planar electrode. Biosensors and Bioelectronics, 2009, 24, 2659-2664.	10.1	80
20	Nanomaterial-Based Biosensor as an Emerging Tool for Biomedical Applications. Annals of Biomedical Engineering, 2012, 40, 1384-1397.	2.5	80
21	Duplex Bioelectronic Tongue for Sensing Umami and Sweet Tastes Based on Human Taste Receptor Nanovesicles. ACS Nano, 2016, 10, 7287-7296.	14.6	78
22	N-Heterocyclic carbene-palladium complex on polystyrene resin surface as polymer-supported catalyst and its application in Suzuki cross-coupling reaction. Tetrahedron Letters, 2004, 45, 5827-5831.	1.4	74
23	PSA Detection with Femtomolar Sensitivity and a Broad Dynamic Range Using SERS Nanoprobes and an Area-Scanning Method. ACS Sensors, 2016, 1, 645-649.	7.8	74
24	Fluorescence-Raman Dual Modal Endoscopic System for Multiplexed Molecular Diagnostics. Scientific Reports, 2015, 5, 9455.	3.3	73
25	Fluorescence-Based Multiplex Protein Detection Using Optically Encoded Microbeads. Molecules, 2012, 17, 2474-2490.	3.8	71
26	Target-specific near-IR induced drug release and photothermal therapy with accumulated Au/Ag hollow nanoshells on pulmonary cancer cell membranes. Biomaterials, 2015, 45, 81-92.	11.4	69
27	Protein separation and identification using magnetic beads encoded with surface-enhanced Raman spectroscopy. Analytical Biochemistry, 2009, 391, 24-30.	2.4	65
28	Facile synthesis of monodispersed silica-coated magnetic nanoparticles. Journal of Industrial and Engineering Chemistry, 2014, 20, 2646-2649.	5.8	65
29	Enhancement of target specificity of CRISPR-Cas12a by using a chimeric DNA-RNA guide. Nucleic Acids Research, 2020, 48, 8601-8616.	14.5	63
30	Emerging ultrafast nucleic acid amplification technologies for next-generation molecular diagnostics. Biosensors and Bioelectronics, 2019, 141, 111448.	10.1	61
31	Microphysiological Analysis Platform of Pancreatic Islet $\beta$ -Cell Spheroids. Advanced Healthcare Materials, 2018, 7, 1701111.	7.6	60
32	Magnetic surface-enhanced Raman spectroscopic (M-SERS) dots for the identification of bronchioalveolar stem cells in normal and lung cancer mice. Biomaterials, 2009, 30, 3915-3925.	11.4	58
33	Silica-Coated Magnetic Iron Oxide Nanoparticles Grafted onto Graphene Oxide for Protein Isolation. Nanomaterials, 2020, 10, 117.	4.1	57
34	Enzyme-amplified SERS immunoassay with Ag-Au bimetallic SERS hot spots. Nano Research, 2020, 13, 3338-3346.	10.4	56
35	Bubble-free rapid microfluidic PCR. Biosensors and Bioelectronics, 2019, 126, 725-733.	10.1	53
36	Multilayer Ag-Embedded Silica Nanostructure as a Surface-Enhanced Raman Scattering-Based Chemical Sensor with Dual-Function Internal Standards. ACS Applied Materials & Interfaces, 2018, 10, 40748-40755.	8.0	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.	10.1	49
38	Encoding peptide sequences with surface-enhanced Raman spectroscopic nanoparticles. <i>Chemical Communications</i> , 2011, 47, 2306-2308.	4.1	47
39	Recent Progress in Dye-Sensitized Solar Cells for Improving Efficiency: TiO <sub>2</sub> Nanotube Arrays in Active Layer. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-17.	2.7	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.	3.6	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.	3.6	45
42	Enzyme-catalyzed Ag Growth on Au Nanoparticle-assembled Structure for Highly Sensitive Colorimetric Immunoassay. <i>Scientific Reports</i> , 2018, 8, 6290.	3.3	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.	14.6	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.	4.9	43
45	Recent advances in plasmonic dye-sensitized solar cells. <i>Journal of Solid State Chemistry</i> , 2018, 258, 271-282.	2.9	43
46	Prediction-based highly sensitive CRISPR off-target validation using target-specific DNA enrichment. <i>Nature Communications</i> , 2020, 11, 3596.	12.8	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.	4.1	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.	4.1	40
49	Highly robust and optimized conjugation of antibodies to nanoparticles using quantitatively validated protocols. <i>Nanoscale</i> , 2017, 9, 2548-2555.	5.6	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.	10.1	39
51	Enhancement of power conversion efficiency with TiO <sub>2</sub> nanoparticles/nanotubes-silver nanoparticles composites in dye-sensitized solar cells. <i>Applied Surface Science</i> , 2018, 429, 23-28.	6.1	38
52	Large scale synthesis of surface-enhanced Raman scattering nanoprobe with high reproducibility and long-term stability. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 33, 22-27.	5.8	34
53	Simultaneous Detection of EGFR and VEGF in Colorectal Cancer using Fluorescence-Raman Endoscopy. <i>Scientific Reports</i> , 2017, 7, 1035.	3.3	33
54	Magnetic field induced aggregation of nanoparticles for sensitive molecular detection. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 7298.	2.8	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.	5.8	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.	2.4	31
57	$\beta$ -CD Dimer-immobilized Ag Assembly Embedded Silica Nanoparticles for Sensitive Detection of Polycyclic Aromatic Hydrocarbons. <i>Scientific Reports</i> , 2016, 6, 26082.	3.3	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.	3.3	30
59	Real-time monitoring of geosmin based on an aptamer-conjugated graphene field-effect transistor. <i>Biosensors and Bioelectronics</i> , 2021, 174, 112804.	10.1	30
60	Enhancement of cellular olfactory signal by electrical stimulation. <i>Electrophoresis</i> , 2009, 30, 3283-3288.	2.4	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.	3.3	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.	5.5	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.	3.3	29
64	Characterization and regulated naproxen release of hydroxypropyl cyclosophoraose-pullulan microspheres. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 48, 108-118.	5.8	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.	5.8	28
66	Multi-Quantum Dots-Embedded Silica-Encapsulated Nanoparticle-Based Lateral Flow Assay for Highly Sensitive Exosome Detection. <i>Nanomaterials</i> , 2021, 11, 768.	4.1	27
67	Double-Layer Magnetic Nanoparticle-Embedded Silica Particles for Efficient Bio-Separation. <i>PLoS ONE</i> , 2015, 10, e0143727.	2.5	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.	4.1	26
69	Facile Histamine Detection by Surface-Enhanced Raman Scattering Using SiO <sub>2</sub> @Au@Ag Alloy Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4048.	4.1	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.	9.1	26
71	Ag Nanoparticle-Functionalized Open-Ended Freestanding TiO <sub>2</sub> Nanotube Arrays with a Scattering Layer for Improved Energy Conversion Efficiency in Dye-Sensitized Solar Cells. <i>Nanomaterials</i> , 2016, 6, 117.	4.1	25
72	Synthesis of photolabile o-nitroveratryloxycarbonyl (NVOC) protected peptide nucleic acid monomers. <i>Tetrahedron</i> , 2005, 61, 7967-7973.	1.9	23

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73	Au@Ag assembled on silica nanoprobe for visual semiquantitative detection of prostate-specific antigen. Journal of Nanobiotechnology, 2021, 19, 73.	9.1	23
74	Fabrication of biofunctional stents with endothelial progenitor cell specificity for vascular re-endothelialization. Colloids and Surfaces B: Biointerfaces, 2013, 102, 744-751.	5.0	22
75	Multifunctional self-assembled monolayers via microcontact printing and degas-driven flow guided patterning. Scientific Reports, 2018, 8, 16763.	3.3	22
76	High-quantum yield alloy-typed core/shell CdSeZnS/ZnS quantum dots for bio-applications. Journal of Nanobiotechnology, 2022, 20, 22.	9.1	22
77	Radial Flow Assay Using Gold Nanoparticles and Rolling Circle Amplification to Detect Mercuric Ions. Nanomaterials, 2018, 8, 81.	4.1	21
78	Ultrasensitive Stress Biomarker Detection Using Polypyrrole Nanotube Coupled to a Field-Effect Transistor. Micromachines, 2020, 11, 439.	2.9	21
79	Lateral Flow Immunoassay with Quantum-Dot-Embedded Silica Nanoparticles for Prostate-Specific Antigen Detection. Nanomaterials, 2022, 12, 33.	4.1	21
80	Front-illuminated dye-sensitized solar cells with Ag nanoparticle-functionalized freestanding TiO <sub>2</sub> nanotube arrays. Chemical Physics Letters, 2014, 614, 78-81.	2.6	20
81	Sensitive Colorimetric Detection of Prostate Specific Antigen Using a Peroxidase-Mimicking Anti-PSA Antibody Coated Au Nanoparticle. Biochip Journal, 2020, 14, 158-168.	4.9	20
82	Base Effects on Fabrication of Silver Nanoparticles Embedded Silica Nanocomposite for Surface-Enhanced Raman Scattering (SERS). Journal of Nanoscience and Nanotechnology, 2011, 11, 579-583.	0.9	19
83	Size effect of gold on Ag-coated Au nanoparticle-embedded silica nanospheres. RSC Advances, 2016, 6, 48644-48650.	3.6	19
84	Functionalized $\beta$ -Cyclodextrin Immobilized on Ag-Embedded Silica Nanoparticles as a Drug Carrier. International Journal of Molecular Sciences, 2019, 20, 315.	4.1	19
85	Synthesis and Application of Silica-Coated Quantum Dots in Biomedicine. International Journal of Molecular Sciences, 2021, 22, 10116.	4.1	19
86	Thin silica shell coated Ag assembled nanostructures for expanding generality of SERS analytes. PLoS ONE, 2017, 12, e0178651.	2.5	18
87	Multilayer fluorescence optically encoded beads for protein detection. Analytical Biochemistry, 2010, 396, 313-315.	2.4	17
88	Toward Integrated Molecular Diagnostic System (Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 on Biomedical Engineering, 2014, 61, 1506-1521.	4.2	17
89	Carbon-doped freestanding TiO <sub>2</sub> nanotube arrays in dye-sensitized solar cells. New Journal of Chemistry, 2017, 41, 285-289.	2.8	17
90	SERS-Based Flavonoid Detection Using Ethylenediamine- $\beta$ -Cyclodextrin as a Capturing Ligand. Nanomaterials, 2017, 7, 8.	4.1	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.	7.6	17
92	Graphene Oxide Conjugated Magnetic Beads for RNA Extraction. <i>Chemistry - an Asian Journal</i> , 2017, 12, 1883-1888.	3.3	16
93	Dual Functionalized Freestanding TiO2 Nanotube Arrays Coated with Ag Nanoparticles and Carbon Materials for Dye-Sensitized Solar Cells. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 576.	2.5	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.	5.8	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.	7.8	15
96	Highly Reproducible Surface-Enhanced Raman Scattering Detection of Alternariol Using Silver-Embedded Silica Nanoparticles. <i>Sensors</i> , 2020, 20, 3523.	3.8	15
97	Facile Method for Preparation of Silica Coated Monodisperse Superparamagnetic Microspheres. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-9.	2.7	14
98	Template-Assisted Plasmonic Nanogap Shells for Highly Enhanced Detection of Cancer Biomarkers. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1752.	4.1	14
99	Preparation of polydiacetylene immobilized optically encoded beads. <i>Journal of Colloid and Interface Science</i> , 2011, 355, 29-34.	9.4	13
100	Fabrication of mono-dispersed silica-coated quantum dot-assembled magnetic nanoparticles. <i>RSC Advances</i> , 2015, 5, 32072-32077.	3.6	13
101	Silver Nanoparticle-Embedded Thin Silica-Coated Graphene Oxide as an SERS Substrate. <i>Nanomaterials</i> , 2016, 6, 176.	4.1	13
102	Plasmonic and charging effects in dye-sensitized solar cells with Au nanoparticles incorporated into the channels of freestanding TiO2 nanotube arrays by an electrodeposition method. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 80, 311-317.	5.8	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.	10.3	13
104	Expansion of the prime editing modality with Cas9 from <i>Francisella novicida</i> . <i>Genome Biology</i> , 2022, 23, 92.	8.8	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.	5.8	12
106	Preparation of plasmonic magnetic nanoparticles and their light scattering properties. <i>RSC Advances</i> , 2015, 5, 21050-21053.	3.6	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.	2.6	12
108	Facile method of preparing silver-embedded polymer beads and their antibacterial effect. <i>Journal of Materials Science</i> , 2010, 45, 3106-3108.	3.7	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.	1.8	11
110	Silver Nano/Microparticles: Modification and Applications. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2609.	4.1	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.	4.1	11
112	Recent Advances in Surface-Enhanced Raman Scattering Magnetic Plasmonic Particles for Bioapplications. <i>Nanomaterials</i> , 2021, 11, 1215.	4.1	11
113	Silver-Assembled Silica Nanoparticles in Lateral Flow Immunoassay for Visual Inspection of Prostate-Specific Antigen. <i>Sensors</i> , 2021, 21, 4099.	3.8	11
114	Improved Energy Conversion Efficiency of Dye-sensitized Solar Cells Fabricated using Open-ended $\text{TiO}_2$ Nanotube Arrays with Scattering Layer. <i>Bulletin of the Korean Chemical Society</i> , 2014, 35, 1165-1168.	1.9	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.	5.8	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.	4.1	10
117	Liposome solubilization induced by complexation with dimeric $\beta$ -cyclodextrin. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2014, 80, 427-435.	1.6	9
118	Supramolecular self-assembled aggregates formed by pentacosyl-10,12-diynyl amidomethyl- $\beta$ -cyclodextrin. <i>Carbohydrate Research</i> , 2014, 391, 37-42.	2.3	9
119	Synthesis, Characterization, and Retinol Stabilization of Fatty Amide- $\beta$ -cyclodextrin Conjugates. <i>Molecules</i> , 2016, 21, 963.	3.8	9
120	Single photomask lithography for shape modulation of micropatterns. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 84, 196-201.	5.8	9
121	A Lateral Flow Immunoassay for Prostate-Specific Antigen Detection Using $\text{SiO}_2$ -Coated $\text{CdSe}/\text{ZnS}$ Quantum Dots. <i>Bulletin of the Korean Chemical Society</i> , 2020, 41, 989-993.	1.9	9
122	Magnetic Nanoparticles. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1309, 191-215.	1.6	9
123	Preparation of pore size controllable macroporous polymer beads. <i>Journal of Industrial and Engineering Chemistry</i> , 2011, 17, 794-798.	5.8	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.	9.4	8
125	A synthetic encapsulating emulsifier using complex-forming pentacosadiynoyl cyclophosphazenes (cyclic $\beta$ -(1, 2)-d-glucan). <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 44, 195-203.	5.8	8
126	Highly Sensitive Magnetic-SERS Dual-Function Silica Nanoprobes for Effective On-Site Organic Chemical Detection. <i>Nanomaterials</i> , 2017, 7, 146.	4.1	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.	3.8	8
128	Enhanced Efficiency in Dye-Sensitized Solar Cells by Electron Transport and Light Scattering on Freestanding TiO <sub>2</sub> Nanotube Arrays. <i>Nanomaterials</i> , 2017, 7, 345.	4.1	8
129	Mono-6-Deoxy-6-Aminopropylamino- $\beta$ -Cyclodextrin on Ag-Embedded SiO <sub>2</sub> Nanoparticle as a Selectively Capturing Ligand to Flavonoids. <i>Nanomaterials</i> , 2019, 9, 1349.	4.1	8
130	Au-Nanoparticle-Embedded Open-Ended Freestanding TiO <sub>2</sub> Nanotube Arrays in Dye-Sensitized Solar Cells for Better Electron Generation and Electron Transport. <i>ACS Omega</i> , 2019, 4, 20346-20352.	3.5	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.	5.8	7
132	On-chip plasmonic immunoassay based on targeted assembly of gold nanoplasmonic particles. <i>Analyst</i> , 2019, 144, 2820-2826.	3.5	7
133	Au-Embedded and Carbon-Doped Freestanding TiO <sub>2</sub> Nanotube Arrays in Dye-Sensitized Solar Cells for Better Energy Conversion Efficiency. <i>Micromachines</i> , 2019, 10, 805.	2.9	7
134	Fabrication of Remarkably Bright QD Densely Embedded Silica Nanoparticle. <i>Bulletin of the Korean Chemical Society</i> , 2019, 40, 9-13.	1.9	7
135	Graphical and SERS dual-modal identifier for encoding OBOC library. <i>Sensors and Actuators B: Chemical</i> , 2020, 303, 127211.	7.8	7
136	Synthesis of Densely Immobilized Gold-Assembled Silica Nanostructures. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2543.	4.1	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.	4.1	7
138	Fabrication of Ag nanoaggregates/SiO <sub>2</sub> yolk-shell nanoprobes for surface-enhanced Raman scattering. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 32, 34-38.	5.8	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.	4.1	6
140	Optimizing the Aspect Ratio of Nanopatterned Mesoporous TiO <sub>2</sub> Thin-Film Layer to Improve Energy Conversion Efficiency of Perovskite Solar Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12235.	4.1	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.	2.6	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.	2.8	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.	1.9	5
146	Surface Modification of a Stable CdSeZnS/ZnS Alloy Quantum Dot for Immunoassay. Journal of Nanomaterials, 2020, 2020, 1-9.	2.7	5
147	Silica Nanoparticles. Advances in Experimental Medicine and Biology, 2021, 1309, 41-65.	1.6	5
148	Lithography Technology for Micro- and Nanofabrication. Advances in Experimental Medicine and Biology, 2021, 1309, 217-233.	1.6	5
149	High-throughput multiplex analysis method based on Fluorescence-SERS quantum Dot-Embedded silver bumpy nanoprobe. Applied Surface Science, 2021, 558, 149787.	6.1	5
150	Effect of Au Nanoparticles and Scattering Layer in Dye-Sensitized Solar Cells Based on Freestanding TiO <sub>2</sub> Nanotube Arrays. Nanomaterials, 2021, 11, 328.	4.1	5
151	Evaluation of Sterilization Performance for Vaporized-Hydrogen-Peroxide-Based Sterilizer with Diverse Controlled Parameters. ACS Omega, 2020, 5, 29382-29387.	3.5	5
152	Silver Nano/Microparticles: Modification and Applications 2.0. International Journal of Molecular Sciences, 2020, 21, 4395.	4.1	4
153	Carbon Nanomaterials for Biomedical Application. Advances in Experimental Medicine and Biology, 2021, 1309, 257-276.	1.6	4
154	Luminescent Nanomaterials (II). Advances in Experimental Medicine and Biology, 2021, 1309, 97-132.	1.6	4
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