

Tae-Jung Park

List of Publications by Year in descending order

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Version: 2024-02-01

226
papers

8,303
citations

41258

49
h-index

71532

76
g-index

232
all docs

232
docs citations

232
times ranked

11023
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in analytical strategies and microsystems for food allergen detection. Food Chemistry, 2022, 371, 131120.	4.2	40
2	A phage virus-based electrochemical biosensor for highly sensitive detection of ovomucoid. Food Chemistry, 2022, 378, 132061.	4.2	17
3	Target delivery of photo-triggered nanocarrier for externally activated chemo-photodynamic therapy of prostate cancer. Materials Today Chemistry, 2022, 23, 100688.	1.7	11
4	Ultrasmall fluorescent nanomaterials for sensing and bioimaging applications. , 2022, , 531-570.		0
5	Upconversion-luminescent nanomaterials for biomedical applications. , 2022, , 337-374.		0
6	Electrochemical detection of caspase-3 based on a chemically modified M13 phage virus. Bioelectrochemistry, 2022, 145, 108090.	2.4	10
7	Graphene Oxide-Mediated Fluorometric Aptasensor for Okadaic Acid Detection. Biochip Journal, 2022, 16, 207-213.	2.5	9
8	Applications of upconversion nanoparticles in analytical and biomedical sciences: a review. Analyst, The, 2022, 147, 3155-3179.	1.7	25
9	Dual synergistic response for the electrochemical detection of H1N1 virus and viral proteins using high affinity peptide receptors. Talanta, 2022, 248, 123613.	2.9	5
10	Affinity Peptide-based Electrochemical Biosensor for the Highly Sensitive Detection of Bovine Rotavirus. Biotechnology and Bioprocess Engineering, 2022, 27, 607-614.	1.4	9
11	Effect of Sulfamerazine on Structural Characteristics of Sodium Alginate Biopolymeric Films. Biotechnology and Bioprocess Engineering, 2022, 27, 596-606.	1.4	1
12	Progress on dot-blot assay as a promising analytical tool: Detection from molecules to cells. TrAC - Trends in Analytical Chemistry, 2022, 157, 116736.	5.8	12
13	Grass-mediated biogenic synthesis of silver nanoparticles and their drug delivery evaluation: A biocompatible anti-cancer therapy. Chemical Engineering Journal, 2021, 407, 127202.	6.6	72
14	Discovering melamine-specific bioreceptors via phage display, constructing its validation method based on the quenching on nanocomplex, and applying screened bioreceptor to the electrochemical assay of melamine. Sensors and Actuators B: Chemical, 2021, 330, 129279.	4.0	2
15	Applications of single-drop microextraction in analytical chemistry: A review. Trends in Environmental Analytical Chemistry, 2021, 29, e00113.	5.3	56
16	Re-engineering of peptides with high binding affinity to develop an advanced electrochemical sensor for colon cancer diagnosis. Analytica Chimica Acta, 2021, 1146, 131-139.	2.6	12
17	Trypsin encapsulated gold-silver bimetallic nanoclusters for recognition of quinalphos via fluorescence quenching and of Zn ²⁺ and Cd ²⁺ ions via fluorescence enhancement. Journal of Molecular Liquids, 2021, 327, 114830.	2.3	21
18	Colorimetric Detection of <i>Mycobacterium tuberculosis</i> ESX-1 Substrate Protein in Clinical Samples Using Au@Pd Nanoparticle-Based Magnetic Enzyme-Linked Immunosorbent Assay. ACS Applied Nano Materials, 2021, 4, 539-549.	2.4	14

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19	A screening study of high affinity peptide as molecular binder for AXL, tyrosine kinase receptor involving in Zika virus entry. <i>Bioelectrochemistry</i> , 2021, 137, 107670.	2.4	6
20	Recent advances of bimetallic nanomaterials and its nanocomposites for biosensing applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 135, 116159.	5.8	49
21	Determination of thallium(^{III}) ions by oxidative hydrolysis of rhodamine-6G-hydroxamate. <i>New Journal of Chemistry</i> , 2021, 45, 603-609.	1.4	5
22	Efficient brazzein production in yeast (<i>Kluyveromyces lactis</i>) using a chemically defined medium. <i>Bioprocess and Biosystems Engineering</i> , 2021, 44, 913-925.	1.7	9
23	Screening of specific binding peptides using phage-display techniques and their biosensing applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 137, 116229.	5.8	33
24	Functionalization of Silver Nanoparticles with Carbohydrate Derivative for Colorimetric Assay of Thiram. <i>Journal of Electronic Materials</i> , 2021, 50, 3676-3685.	1.0	11
25	Functionalization of gold nanoparticles using guanidine thiocyanate for sensitive and selective visual detection of Cd ²⁺ . <i>Sensors and Actuators B: Chemical</i> , 2021, 334, 129685.	4.0	21
26	<i>In Situ</i> Biosynthesis of a Metal Nanoparticle Encapsulated in Alginate Gel for Imageable Drug-Delivery System. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 36697-36708.	4.0	14
27	Green synthesis of carbon dots from <i>Calotropis procera</i> leaves for trace level identification of isoprothiolane. <i>Microchemical Journal</i> , 2021, 167, 106272.	2.3	34
28	Biomimetic isolation of affinity peptides for electrochemical detection of influenza virus antigen. <i>Sensors and Actuators B: Chemical</i> , 2021, 343, 130161.	4.0	19
29	Facile synthesis of carbon dots from <i>Tagetes erecta</i> as a precursor for determination of chlorpyrifos via fluorescence turn-off and quinalphos via fluorescence turn-on mechanisms. <i>Chemosphere</i> , 2021, 279, 130515.	4.2	38
30	Recent progress on the modifications of ultra-small perovskite nanomaterials for sensing applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 144, 116432.	5.8	32
31	Rational design of bienzyme nanoparticles-based total cholesterol electrochemical sensors and the construction of cholesterol oxidase expression system. <i>Sensors and Actuators B: Chemical</i> , 2021, 349, 130742.	4.0	12
32	An overview of molecular biology and nanotechnology based analytical methods for the detection of SARS-CoV-2: promising biotools for the rapid diagnosis of COVID-19. <i>Analyst</i> , 2021, 146, 1489-1513.	1.7	42
33	Lysozyme-Decorated Gold and Molybdenum Bimetallic Nanoclusters for the Selective Detection of Bilirubin as a Jaundice Biomarker. <i>ACS Applied Nano Materials</i> , 2021, 4, 11949-11959.	2.4	31
34	Clinical Trial: Magnetoplasmonic ELISA for Urine-based Active Tuberculosis Detection and Anti-Tuberculosis Therapy Monitoring. <i>ACS Central Science</i> , 2021, 7, 1898-1907.	5.3	16
35	Nanoparticle-integrated electrochemical devices for identification of mycotoxins. , 2020, , 275-296.		3
36	Surface-modified metal nanoparticles for recognition of toxic organic molecules. , 2020, , 415-432.		2

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37	Cu-nanoflower decorated gold nanoparticles-graphene oxide nanofiber as electrochemical biosensor for glucose detection. <i>Materials Science and Engineering C</i> , 2020, 107, 110273.	3.8	138
38	Review on matrix-assisted laser desorption/ionization time-of-flight mass spectrometry for the rapid screening of microbial species: A promising bioanalytical tool. <i>Microchemical Journal</i> , 2020, 159, 105387.	2.3	16
39	One-pot fabrication of amino acid and peptide stabilized gold nanoclusters for the measurement of the lead in plasma samples using chemically modified cellulose paper. <i>Sensors and Actuators B: Chemical</i> , 2020, 322, 128603.	4.0	19
40	Fluorescence detection of histamine based on specific binding bioreceptors and carbon quantum dots. <i>Biosensors and Bioelectronics</i> , 2020, 167, 112519.	5.3	54
41	Fabrication of a paper strip for facile and rapid detection of bovine viral diarrhea virus via signal enhancement by copper polyhedral nanoshells. <i>RSC Advances</i> , 2020, 10, 29759-29764.	1.7	11
42	Colorimetric detection of creatinine using its specific binding peptides and gold nanoparticles. <i>New Journal of Chemistry</i> , 2020, 44, 15828-15835.	1.4	9
43	Detection of <i>E. coli</i> O157:H7 in Food Using Automated Immunomagnetic Separation Combined with Real-Time PCR. <i>Processes</i> , 2020, 8, 908.	1.3	9
44	Phytotoxicity of different antibiotics to rice and stress alleviation upon application of organic amendments. <i>Chemosphere</i> , 2020, 258, 127353.	4.2	43
45	Development of Detection Methods for Zinc Pyrithione in Polypropylene via Simple Extraction Methods for Quality Control. <i>Biochip Journal</i> , 2020, 14, 211-217.	2.5	5
46	Dual signaling of thallium(III) ions via oxidative cleavage of a sulfonhydrazone linkage. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 394, 112471.	2.0	2
47	Novel peptides functionalized gold nanoparticles decorated tungsten disulfide nanoflowers as the electrochemical sensing platforms for the norovirus in an oyster. <i>Food Control</i> , 2020, 114, 107225.	2.8	29
48	Detection of <i>Escherichia coli</i> O157:H7 Using Automated Immunomagnetic Separation and Enzyme-Based Colorimetric Assay. <i>Sensors</i> , 2020, 20, 1395.	2.1	18
49	Photo-induced reactions for disassembling of co-loaded photosensitizer and drug molecules from upconversion-mesoporous silica nanoparticles: An effective synergistic cancer therapy. <i>Materials Science and Engineering C</i> , 2020, 110, 110545.	3.8	26
50	Diaminodiphenyl sulfone as a novel ligand for synthesis of gold nanoparticles for simultaneous colorimetric assay of three trivalent metal cations (Al ³⁺ , Fe ³⁺ and Cr ³⁺). <i>Journal of Molecular Liquids</i> , 2020, 312, 113409.	2.3	22
51	Reliable naked-eye detection of <i>Mycobacterium tuberculosis</i> antigen 85B using gold and copper nanoshell-enhanced immunoblotting techniques. <i>Sensors and Actuators B: Chemical</i> , 2020, 317, 128220.	4.0	12
52	An affinity peptide-incorporated electrochemical biosensor for the detection of neutrophil gelatinase-associated lipocalin. <i>Biosensors and Bioelectronics</i> , 2019, 142, 111482.	5.3	44
53	Assembly of 6-aza-2-thiothymine on gold nanoparticles for selective and sensitive colorimetric detection of pencycuron in water and food samples. <i>Talanta</i> , 2019, 205, 120087.	2.9	19
54	A simple hypochlorous acid signaling probe based on resorufin carbonodithioate and its biological application. <i>Analyst</i> , The, 2019, 144, 7263-7269.	1.7	15

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55	Acid Oxidation of Muskmelon Fruit for the Fabrication of Carbon Dots with Specific Emission Colors for Recognition of Hg ²⁺ Ions and Cell Imaging. ACS Omega, 2019, 4, 19332-19340.	1.6	64
56	Recent advances of upconversion nanoparticles in theranostics and bioimaging applications. TrAC - Trends in Analytical Chemistry, 2019, 120, 115646.	5.8	65
57	Cuvette-Type LSPR Sensor for Highly Sensitive Detection of Melamine in Infant Formulas. Sensors, 2019, 19, 3839.	2.1	26
58	Development of peptide biosensor for the detection of dengue fever biomarker, nonstructural 1. PLoS ONE, 2019, 14, e0222144.	1.1	25
59	Progress of electrospray ionization and rapid evaporative ionization mass spectrometric techniques for the broad-range identification of microorganisms. Analyst, The, 2019, 144, 1073-1103.	1.7	19
60	Implementing an artificial synapse and neuron using a Si nanowire ion-sensitive field-effect transistor and indium-gallium-zinc-oxide memristors. Sensors and Actuators B: Chemical, 2019, 296, 126616.	4.0	10
61	Affinity Peptide-guided Plasmonic Biosensor for Detection of Noroviral Protein and Human Norovirus. Biotechnology and Bioprocess Engineering, 2019, 24, 318-325.	1.4	35
62	Reaction-based fluorometric analysis of N-bromosuccinimide by oxidative deprotection of dithiane. Analyst, The, 2019, 144, 3267-3273.	1.7	2
63	Localization and persistence of hepatitis A virus in artificially contaminated oysters. International Journal of Food Microbiology, 2019, 299, 58-63.	2.1	9
64	A facile hydrothermal synthesis of highly luminescent NaYF ₄ :Yb ³⁺ /Er ³⁺ upconversion nanoparticles and their biomonitoring capability. Materials Science and Engineering C, 2019, 99, 1067-1074.	3.8	42
65	One-pot synthesis of carbon dots with intrinsic folic acid for synergistic imaging-guided photothermal therapy of prostate cancer cells. Biomaterials Science, 2019, 7, 5187-5196.	2.6	52
66	Independent spectral characteristics of functionalized silver nanoparticles for colorimetric assay of arginine and spermine in biofluids. New Journal of Chemistry, 2019, 43, 17069-17077.	1.4	13
67	Development of a rapid and sensitive electrochemical biosensor for detection of human norovirus via novel specific binding peptides. Biosensors and Bioelectronics, 2019, 123, 223-229.	5.3	84
68	Tuning of carbon dots emission color for sensing of Fe ³⁺ ion and bioimaging applications. Materials Science and Engineering C, 2019, 98, 834-842.	3.8	151
69	Green synthesis of multi-color emissive carbon dots from Manilkara zapota fruits for bioimaging of bacterial and fungal cells. Journal of Photochemistry and Photobiology B: Biology, 2019, 191, 150-155.	1.7	113
70	Trends in Diagnosis for Active Tuberculosis Using Nanomaterials. Current Medicinal Chemistry, 2019, 26, 1946-1959.	1.2	6
71	An electrochemical peptide sensor for detection of dengue fever biomarker NS1. Analytica Chimica Acta, 2018, 1026, 109-116.	2.6	50
72	Ligand exchange reactions on citrate-gold nanoparticles for a parallel colorimetric assay of six pesticides. New Journal of Chemistry, 2018, 42, 9080-9090.	1.4	30

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73	Influence of ligand chemistry on silver nanoparticles for colorimetric detection of Cr ³⁺ and Hg ²⁺ ions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 195, 120-127.	2.0	53
74	Data on rhizosphere pH, phosphorus uptake and wheat growth responses upon TiO ₂ nanoparticles application. <i>Data in Brief</i> , 2018, 17, 890-896.	0.5	12
75	Dose-dependent physiological responses of <i>Triticum aestivum</i> L. to soil applied TiO ₂ nanoparticles: Alterations in chlorophyll content, H ₂ O ₂ production, and genotoxicity. <i>Agriculture, Ecosystems and Environment</i> , 2018, 255, 95-101.	2.5	84
76	Effect of liquid gate bias rising time in pH sensors based on Si nanowire ion sensitive field effect transistors. <i>Solid-State Electronics</i> , 2018, 140, 109-114.	0.8	5
77	Microfluidic dual loops reactor for conducting a multistep reaction. <i>Frontiers of Chemical Science and Engineering</i> , 2018, 12, 239-246.	2.3	6
78	Selection of affinity peptides for interference-free detection of cholera toxin. <i>Biosensors and Bioelectronics</i> , 2018, 99, 289-295.	5.3	28
79	Morphological evolution of upconversion nanoparticles and their biomedical signal generation. <i>Scientific Reports</i> , 2018, 8, 17101.	1.6	37
80	Selective and Sensitive Colorimetric Recognition of Ba ²⁺ Ion Using Guanidine-Functionalized Silver Nanoparticles. <i>ChemistrySelect</i> , 2018, 3, 10182-10187.	0.7	9
81	Electrochemical immunosensor using nanotriplex of graphene quantum dots, Fe ₃ O ₄ , and Ag nanoparticles for tuberculosis. <i>Electrochimica Acta</i> , 2018, 290, 369-377.	2.6	67
82	The role of metal dopants in WS ₂ nanoflowers in enhancing the hydrogen evolution reaction. <i>Applied Catalysis A: General</i> , 2018, 567, 73-79.	2.2	66
83	Gold-copper nanoshell dot-blot immunoassay for naked-eye sensitive detection of tuberculosis specific CFP-10 antigen. <i>Biosensors and Bioelectronics</i> , 2018, 121, 111-117.	5.3	36
84	Fluorescence sensing of Cu ²⁺ ion and imaging of fungal cell by ultra-small fluorescent carbon dots derived from <i>Acacia concinna</i> seeds. <i>Sensors and Actuators B: Chemical</i> , 2018, 277, 47-54.	4.0	110
85	Synergistic molecular assembly of an aptamer and surfactant on gold nanoparticles for the colorimetric detection of trace levels of As ³⁺ ions in real samples. <i>New Journal of Chemistry</i> , 2018, 42, 11530-11538.	1.4	41
86	Recombinant <i>Escherichia coli</i> as a biofactory for various single- and multi-element nanomaterials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5944-5949.	3.3	103
87	Recent progress on surface chemistry of plasmonic metal nanoparticles for colorimetric assay of drugs in pharmaceutical and biological samples. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 105, 106-120.	5.8	152
88	Rapid discriminative detection of dengue viruses via loop mediated isothermal amplification. <i>Talanta</i> , 2018, 190, 391-396.	2.9	32
89	Rapid Determination of Ethyl Alcohol in Alcoholic Beverages Using a Fluorescent Nanofiber Film. <i>Biochip Journal</i> , 2018, 12, 240-248.	2.5	10
90	Facile green synthesis of carbon dots from <i>Pyrus pyrifolia</i> fruit for assaying of Al ³⁺ ion via chelation enhanced fluorescence mechanism. <i>Journal of Molecular Liquids</i> , 2018, 264, 9-16.	2.3	76

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91	Synthesis of fluorescent silicon quantum dots for ultra-rapid and selective sensing of Cr(VI) ion and biomonitoring of cancer cells. <i>Materials Science and Engineering C</i> , 2018, 93, 429-436.	3.8	50
92	Effect of Sodium Chloride on the Reduction of <i>Bacillus Cereus</i> in Shrimp <i>Jeotgal</i> During Refrigerated Storage. <i>Journal of Food Safety</i> , 2017, 37, e12281.	1.1	5
93	Development of aflatoxin B1 aptasensor based on wide-range fluorescence detection using graphene oxide quencher. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 154, 27-32.	2.5	39
94	A simple and eco-friendly one-pot synthesis of nuclease-resistant DNA-inorganic hybrid nanoflowers. <i>Journal of Materials Chemistry B</i> , 2017, 5, 2231-2234.	2.9	55
95	Hexagonal tungsten oxide nanoflowers as enzymatic mimetics and electrocatalysts. <i>Scientific Reports</i> , 2017, 7, 40928.	1.6	29
96	Functional fusion proteins and prevention of electrode fouling for a sensitive electrochemical immunosensor. <i>Analytica Chimica Acta</i> , 2017, 967, 70-77.	2.6	6
97	Early detection of the growth of <i>Mycobacterium tuberculosis</i> using magnetophoretic immunoassay in liquid culture. <i>Biosensors and Bioelectronics</i> , 2017, 96, 68-76.	5.3	41
98	Portable Agrichemical Detection System for Enhancing the Safety of Agricultural Products Using Aggregation of Gold Nanoparticles. <i>ACS Omega</i> , 2017, 2, 988-993.	1.6	12
99	Wrinkled Surface-Mediated Antibacterial Activity of Graphene Oxide Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 1343-1351.	4.0	154
100	Charge and dielectric effects of biomolecules on electrical characteristics of nanowire FET biosensors. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	19
101	Reducing Agent-Assisted Excessive Galvanic Replacement Mediated Seed-Mediated Synthesis of Porous Gold Nanoplates and Highly Efficient Gene-Thermo Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 35268-35278.	4.0	31
102	An electrochemical biosensor for detection of the sepsis-related biomarker procalcitonin. <i>RSC Advances</i> , 2017, 7, 36562-36565.	1.7	37
103	Electrochemical peptide sensor for diagnosing adenoma-carcinoma transition in colon cancer. <i>Biosensors and Bioelectronics</i> , 2017, 98, 330-337.	5.3	24
104	An easy and sensitive sandwich assay for detection of <i>Mycobacterium tuberculosis</i> Ag85B antigen using quantum dots and gold nanorods. <i>Biosensors and Bioelectronics</i> , 2017, 87, 150-156.	5.3	49
105	High sensitive and selective electrochemical biosensor: Label-free detection of human norovirus using affinity peptide as molecular binder. <i>Biosensors and Bioelectronics</i> , 2017, 87, 164-170.	5.3	127
106	Synthesis of upconversion nanoparticles conjugated with graphene oxide quantum dots and their use against cancer cell imaging and photodynamic therapy. <i>Biosensors and Bioelectronics</i> , 2017, 93, 267-273.	5.3	69
107	Transition from Diffusion-Controlled Intercalation into Extrinsic Pseudocapacitive Charge Storage of MoS ₂ by Nanoscale Heterostructuring. <i>Advanced Energy Materials</i> , 2016, 6, 1501115.	10.2	185
108	In vivo synthesis of europium selenide nanoparticles and related cytotoxicity evaluation of human cells. <i>Enzyme and Microbial Technology</i> , 2016, 95, 201-208.	1.6	29

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109	Plastic-Chip-Based Magnetophoretic Immunoassay for Point-of-Care Diagnosis of Tuberculosis. ACS Applied Materials & Interfaces, 2016, 8, 23489-23497.	4.0	29
110	Novel water filtration of saline water in the outermost layer of mangrove roots. Scientific Reports, 2016, 6, 20426.	1.6	31
111	Graphene growth from reduced graphene oxide by chemical vapour deposition: seeded growth accompanied by restoration. Scientific Reports, 2016, 6, 22653.	1.6	15
112	Enzymatic formation of carbohydrate rings catalyzed by single-walled carbon nanotubes. Bioprocess and Biosystems Engineering, 2016, 39, 725-733.	1.7	0
113	The Analysis of Characteristics in Dry and Wet Environments of Silicon Nanowire-Biosensor. Journal of Nanoscience and Nanotechnology, 2016, 16, 4901-4905.	0.9	4
114	Sensitive detection of lead ions using sodium thiosulfate and surfactant-capped gold nanoparticles. Biochip Journal, 2016, 10, 65-73.	2.5	20
115	Recent tuberculosis diagnosis toward the end TB strategy. Journal of Microbiological Methods, 2016, 123, 51-61.	0.7	38
116	Advances in microbial biosynthesis of metal nanoparticles. Applied Microbiology and Biotechnology, 2016, 100, 521-534.	1.7	144
117	NO-dependent attenuation of TPA-induced immunoinflammatory skin changes in Balb/c mice by pindolol, heptaminol or ATRA, but not by verapamil. Oncotarget, 2016, 7, 47576-47585.	0.8	3
118	Organic-inorganic hybrid nanoflowers: types, characteristics, and future prospects. Journal of Nanobiotechnology, 2015, 13, 54.	4.2	134
119	Bio-inspired Hierarchical Nanoweb for Green Catalysis. Small, 2015, 11, 4292-4297.	5.2	7
120	Label-Free and Real-Time Detection of Avian Influenza Using Nanowire Field Effect Transistors. Journal of Biomedical Nanotechnology, 2015, 11, 1640-1643.	0.5	9
121	Recent Research Trends and Future Prospects in Nanozymes. Journal of Nanomaterials, 2015, 2015, 1-11.	1.5	52
122	Colorimetric Detection System for <i>Salmonella typhimurium</i> Based on Peroxidase-Like Activity of Magnetic Nanoparticles with DNA Aptamers. Journal of Nanomaterials, 2015, 2015, 1-9.	1.5	27
123	Development of predictive reduction models for Escherichia coli on utensils as a function of hydrogen peroxide concentration and exposure time. Food Science and Biotechnology, 2015, 24, 353-359.	1.2	0
124	TCAD-Based Simulation Method for the Electrolyte-Insulator-Semiconductor Field-Effect Transistor. IEEE Transactions on Electron Devices, 2015, 62, 1072-1075.	1.6	26
125	Clinical immunosensing of tuberculosis CFP-10 antigen in urine using interferometric optical fiber array. Sensors and Actuators B: Chemical, 2015, 216, 184-191.	4.0	12
126	Dopamine-Assisted Synthesis of Carbon-Coated Silica for PCR Enhancement. ACS Applied Materials & Interfaces, 2015, 7, 15633-15640.	4.0	27

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127	Self-assembly of biogenic gold nanoparticles and their use to enhance drug delivery into cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 135, 27-34.	2.5	44
128	Development of a portable biosensor system for pesticide detection on a metal chip surface integrated with wireless communication. <i>Food Science and Biotechnology</i> , 2015, 24, 743-750.	1.2	10
129	Robust fluorescence sensing platform for detection of CD44 cells based on graphene oxide/gold nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 135, 309-315.	2.5	22
130	A hybrid composite of gold and graphene oxide as a PCR enhancer. <i>RSC Advances</i> , 2015, 5, 93117-93121.	1.7	4
131	A facile and sensitive detection of organophosphorus chemicals by rapid aggregation of gold nanoparticles using organic compounds. <i>Biosensors and Bioelectronics</i> , 2015, 67, 408-412.	5.3	60
132	Direct growth of graphene nanopatches on graphene sheets for highly conductive thin film applications. <i>Journal of Materials Chemistry C</i> , 2015, 3, 725-728.	2.7	7
133	Development of specific immobilization method on gold surface and its application for determining cardiac risk. <i>Biochip Journal</i> , 2014, 8, 295-302.	2.5	4
134	Microbial inactivation and pesticide removal by remote exposure of atmospheric air plasma in confined environments. <i>Journal of Bioscience and Bioengineering</i> , 2014, 117, 81-85.	1.1	38
135	Nanoparticles of Conjugated Polymers Prepared from Phase-Separated Films of Phospholipids and Polymers for Biomedical Applications. <i>Advanced Materials</i> , 2014, 26, 4559-4564.	11.1	60
136	Investigation of Sensor Performance in Accumulation- and Inversion-Mode Silicon Nanowire pH Sensors. <i>IEEE Transactions on Electron Devices</i> , 2014, 61, 1607-1610.	1.6	7
137	Replication of flexible polymer membranes with geometry-controllable nano-apertures via a hierarchical mould-based dewetting. <i>Nature Communications</i> , 2014, 5, 3137.	5.8	59
138	Multiplex electrical detection of avian influenza and human immunodeficiency virus with an underlap-embedded silicon nanowire field-effect transistor. <i>Biosensors and Bioelectronics</i> , 2014, 55, 162-167.	5.3	39
139	Reaction-based colorimetric and fluorogenic signaling of hydrogen sulfide using a 7-nitro-2,1,3-benzoxadiazole-coumarin conjugate. <i>Tetrahedron Letters</i> , 2014, 55, 1171-1174.	0.7	33
140	In situ probing of doping- and stress-mediated phase transitions in a single-crystalline VO ₂ nanobeam by spatially resolved Raman spectroscopy. <i>Nanoscale</i> , 2014, 6, 8068.	2.8	32
141	Micropillar arrays enabling single microbial cell encapsulation in hydrogels. <i>Lab on A Chip</i> , 2014, 14, 1873.	3.1	18
142	Cell-Based Method Utilizing Fluorescent <i>Escherichia coli</i> Auxotrophs for Quantification of Multiple Amino Acids. <i>Analytical Chemistry</i> , 2014, 86, 2489-2496.	3.2	13
143	Electrical Biomolecule Detection Using Nanopatterned Silicon Via Block Copolymer Lithography. <i>Small</i> , 2014, 10, 337-343.	5.2	48
144	mPW1PW91 Calculated Structures and IR Spectra of the Conformational Stereoisomers of C-Cyanophenyl Pyrogallol[4]arene. <i>Bulletin of the Korean Chemical Society</i> , 2014, 35, 1323-1328.	1.0	2

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145	Surface display of recombinant proteins on Escherichia coli by BclA exosporium of Bacillus anthracis. Microbial Cell Factories, 2013, 12, 81.	1.9	20
146	CRP detection from serum for chip-based point-of-care testing system. Biosensors and Bioelectronics, 2013, 41, 322-327.	5.3	57
147	Facile Functionalization of Colloidal Gold Nanorods by the Specific Binding of an Engineered Protein that Is Preferred over CTAB Bilayers. ChemPlusChem, 2013, 78, 48-51.	1.3	9
148	Rapid monitoring of CFP-10 during culture of Mycobacterium tuberculosis by using a magnetophoretic immunoassay. Sensors and Actuators B: Chemical, 2013, 177, 327-333.	4.0	32
149	Improvement of Sensitivity and Limit of Detection in a Nanogap Biosensor by Controlling Surface Wettability. BioNanoScience, 2013, 3, 192-197.	1.5	9
150	A biristor based on a floating-body silicon nanowire for biosensor applications. Applied Physics Letters, 2013, 102, .	1.5	11
151	Enhanced Pseudocapacitance of Ionic Liquid/Cobalt Hydroxide Nanohybrids. ACS Nano, 2013, 7, 2453-2460.	7.3	99
152	Surface engineering for enhancement of sensitivity in an underlap-FET biosensor by control of wettability. Biosensors and Bioelectronics, 2013, 41, 867-870.	5.3	46
153	Synthesis of Bioactive Microcapsules Using a Microfluidic Device. Sensors, 2012, 12, 10136-10147.	2.1	15
154	Label-Free Electrochemical Diagnosis of Viral Antigens with Genetically Engineered Fusion Protein. Sensors, 2012, 12, 10097-10108.	2.1	20
155	Development of a Plastic-Based Microfluidic Immunosensor Chip for Detection of H1N1 Influenza. Sensors, 2012, 12, 10810-10819.	2.1	27
156	A nanoforest structure for practical surface-enhanced Raman scattering substrates. Nanotechnology, 2012, 23, 095301.	1.3	25
157	Polydiacetylene Single-Walled Carbon Nanotubes Nano-Hybrid for Cellular Imaging Applications. Journal of Nanoscience and Nanotechnology, 2012, 12, 377-385.	0.9	6
158	One-step sonochemical synthesis of a graphene oxide-manganese oxide nanocomposite for catalytic glycolysis of poly(ethylene terephthalate). Nanoscale, 2012, 4, 3879.	2.8	99
159	Development of label-free optical diagnosis for sensitive detection of influenza virus with genetically engineered fusion protein. Talanta, 2012, 89, 246-252.	2.9	65
160	Continuous In Situ Synthesis of ZnSe/ZnS Core/Shell Quantum Dots in a Microfluidic Reaction System and its Application for Light-Emitting Diodes. Small, 2012, 8, 3257-3262.	5.2	65
161	Hierarchical gold micro-nanostructures based on three-dimensional networks of carbon nanotubes fabricated by using electrochemical deposition. Journal of the Korean Physical Society, 2012, 60, 1135-1139.	0.3	2
162	An Underlap Channel-Embedded Field-Effect Transistor for Biosensor Application in Watery and Dry Environment. IEEE Nanotechnology Magazine, 2012, 11, 390-394.	1.1	80

#	ARTICLE	IF	CITATIONS
163	<i>In Vitro</i> Biosynthesis of Metal Nanoparticles in Microdroplets. <i>ACS Nano</i> , 2012, 6, 6998-7008.	7.3	42
164	Nanowire FET Biosensors on a Bulk Silicon Substrate. <i>IEEE Transactions on Electron Devices</i> , 2012, 59, 2243-2249.	1.6	19
165	Homogeneous Biogenic Paramagnetic Nanoparticle Synthesis Based on a Microfluidic Droplet Generator (<i>Angew. Chem.</i> 23/2012). <i>Angewandte Chemie</i> , 2012, 124, 5864-5864.	1.6	0
166	Homogeneous Biogenic Paramagnetic Nanoparticle Synthesis Based on a Microfluidic Droplet Generator. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5634-5637.	7.2	38
167	Back Cover: Homogeneous Biogenic Paramagnetic Nanoparticle Synthesis Based on a Microfluidic Droplet Generator (<i>Angew. Chem. Int. Ed.</i> 23/2012). <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5764-5764.	7.2	0
168	Ultrasensitive DNA monitoring by Au-Fe ₃ O ₄ nanocomplex. <i>Sensors and Actuators B: Chemical</i> , 2012, 163, 224-232.	4.0	76
169	Organoclay-assisted interfacial polymerization for microfluidic production of monodisperse PEG-microdroplets and in situ encapsulation of <i>E. coli</i> . <i>Biotechnology and Bioengineering</i> , 2012, 109, 289-294.	1.7	11
170	A Dual-Gate Field-Effect Transistor for Label-Free Electrical Detection of Avian Influenza. <i>BioNanoScience</i> , 2012, 2, 35-41.	1.5	10
171	Programmable peptide-directed two dimensional arrays of various nanoparticles on graphene sheets. <i>Nanoscale</i> , 2011, 3, 3208.	2.8	24
172	Investigation of Size Dependence on Sensitivity for Nanowire FET Biosensors. <i>IEEE Nanotechnology Magazine</i> , 2011, 10, 1405-1411.	1.1	24
173	Plasmonic Properties of the Multispot Copper-Capped Nanoparticle Array Chip and Its Application to Optical Biosensors for Pathogen Detection of Multiplex DNAs. <i>Analytical Chemistry</i> , 2011, 83, 6215-6222.	3.2	69
174	Development of a Point-of-Care Testing Platform With a Nanogap-Embedded Separated Double-Gate Field Effect Transistor Array and Its Readout System for Detection of Avian Influenza. <i>IEEE Sensors Journal</i> , 2011, 11, 351-360.	2.4	62
175	Label-free Electrochemical Biosensor Based on Graphene/Ionic Liquid Nanocomposite for the Detection of Organophosphate Pesticides. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1283, 1.	0.1	1
176	Site-specific immobilization of gold binding polypeptide on gold nanoparticle-coated graphene sheet for biosensor application. <i>Nanoscale</i> , 2011, 3, 2950.	2.8	50
177	Development of Reflective Biosensor Using Fabrication of Functionalized Photonic Nanocrystals. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 632-637.	0.9	24
178	Label-Free Detection of Leptin Antibody-Antigen Interaction by Using LSPR-Based Optical Biosensor. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 4188-4193.	0.9	12
179	Ultrasound-Aided Formation of Gold Nanoparticles on Multi-Walled Carbon Nanotubes Functionalized with Mercaptobenzene Moieties. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 6222-6226.	0.9	1
180	DNA capturing machinery through spore-displayed proteins. <i>Letters in Applied Microbiology</i> , 2011, 53, 445-451.	1.0	0

#	ARTICLE	IF	CITATIONS
181	The effects of the physical properties of culture substrates on the growth and differentiation of human embryonic stem cells. <i>Biomaterials</i> , 2011, 32, 8816-8829.	5.7	30
182	Quantitative studies of carbohydrate-protein interaction using functionalized bacterial spores in solution and on chips. <i>Biotechnology and Bioprocess Engineering</i> , 2011, 16, 190-195.	1.4	3
183	Graphene-based electrochemical biosensor for pathogenic virus detection. <i>Biochip Journal</i> , 2011, 5, 123-128.	2.5	97
184	Directed Self-Assembly of Gold Nanoparticles on Graphene-Ionic Liquid Hybrid for Enhancing Electrocatalytic Activity. <i>Electroanalysis</i> , 2011, 23, 850-857.	1.5	51
185	Ultrasensitive immunosensing of tuberculosis CFP-10 based on SPR spectroscopy. <i>Sensors and Actuators B: Chemical</i> , 2011, 156, 271-275.	4.0	46
186	Synthesis of Graphene-Gold Nanocomposites via Sonochemical Reduction. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 6095-6101.	0.9	14
187	Characterization of a Bacterial Self-Assembly Surface Layer Protein and Its Application as an Electrical Nanobiosensor. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 402-407.	0.9	13
188	Alignment of SWNTs by Protein-Ligand Interaction of Functionalized Magnetic Particles Under Low Magnetic Fields. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 4540-4545.	0.9	2
189	In Vivo Synthesis of Diverse Metal Nanoparticles by Recombinant <i>Escherichia coli</i> . <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7019-7024.	7.2	138
190	Synthesis and utilization of <i>E. coli</i> -encapsulated PEG-based microdroplet using a microfluidic chip for biological application. <i>Biotechnology and Bioengineering</i> , 2010, 107, 747-751.	1.7	36
191	Immobilization of genetically engineered fusion proteins on gold-decorated carbon nanotube hybrid films for the fabrication of biosensor platforms. <i>Journal of Colloid and Interface Science</i> , 2010, 350, 453-458.	5.0	25
192	Rapid separation of bacteriorhodopsin using a laminar-flow extraction system in a microfluidic device. <i>Biomicrofluidics</i> , 2010, 4, 014103.	1.2	44
193	A charge pumping technique to identify biomolecular charge polarity using a nanogap embedded biotransistor. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	11
194	Functionalization Effects of Single-Walled Carbon Nanotubes as Templates for the Synthesis of Silica Nanorods and Study of Growing Mechanism of Silica. <i>ACS Nano</i> , 2010, 4, 3933-3942.	7.3	42
195	Double-Gate Nanowire Field Effect Transistor for a Biosensor. <i>Nano Letters</i> , 2010, 10, 2934-2938.	4.5	162
196	Comprehensive study of a detection mechanism and optimization strategies to improve sensitivity in a nanogap-embedded biotransistor. <i>Journal of Applied Physics</i> , 2010, 107, 114705.	1.1	6
197	Charge pumping technique to analyze the effect of intrinsically retained charges and extrinsically trapped charges in biomolecules by use of a nanogap embedded biotransistor. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	9
198	An underlap field-effect transistor for electrical detection of influenza. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	57

#	ARTICLE	IF	CITATIONS
199	Label-free optical diagnosis of hepatitis B virus with genetically engineered fusion proteins. <i>Talanta</i> , 2010, 82, 803-809.	2.9	46
200	Solution Chemistry of Self-Assembled Graphene Nano hybrids for High-Performance Flexible Biosensors. <i>ACS Nano</i> , 2010, 4, 2910-2918.	7.3	343
201	Synthesis and characterization of gold-deposited red, green and blue fluorescent silica nanoparticles for biosensor application. <i>Chemical Communications</i> , 2010, 46, 6374.	2.2	18
202	Detection of the Most Common Corneal Dystrophies Caused by BIGH3 Gene Point Mutations Using a Multispot Gold-Capped Nanoparticle Array Chip. <i>Analytical Chemistry</i> , 2010, 82, 1349-1357.	3.2	29
203	Microwave-assisted synthesis of highly water-soluble graphene towards electrical DNA sensor. <i>Nanoscale</i> , 2010, 2, 2692.	2.8	56
204	Facile fabrication of networked patterns and their superior application to realize the virus immobilized networked pattern circuit. <i>Chemical Communications</i> , 2010, 46, 8609.	2.2	0
205	Microarray of DNA-protein complexes on poly-3-hydroxybutyrate surface for pathogen detection. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 1639-1647.	1.9	13
206	Nanogap Field-Effect Transistor Biosensors for Electrical Detection of Avian Influenza. <i>Small</i> , 2009, 5, 2407-2412.	5.2	121
207	Development of a whole-cell biosensor by cell surface display of a gold-binding polypeptide on the gold surface. <i>FEMS Microbiology Letters</i> , 2009, 293, 141-147.	0.7	19
208	Development of the electrochemical biosensor for organophosphate chemicals using CNT/ionic liquid bucky gel electrode. <i>Electrochemistry Communications</i> , 2009, 11, 672-675.	2.3	61
209	Directed self-assembly of gold binding polypeptide-protein A fusion proteins for development of gold nanoparticle-based SPR immunosensors. <i>Biosensors and Bioelectronics</i> , 2009, 24, 2592-2597.	5.3	111
210	Free-flow isoelectric focusing microfluidic device with glass coating by sol-gel methods. <i>Current Applied Physics</i> , 2009, 9, e66-e70.	1.1	11
211	A self-assembled fusion protein-based surface plasmon resonance biosensor for rapid diagnosis of severe acute respiratory syndrome. <i>Talanta</i> , 2009, 79, 295-301.	2.9	84
212	A biomolecular detection method based on charge pumping in a nanogap embedded field-effect-transistor biosensor. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	30
213	Spore Display Using <i>Bacillus thuringiensis</i> Exosporium Protein InhA. <i>Journal of Microbiology and Biotechnology</i> , 2009, 19, 495-501.	0.9	14
214	Development of a fully integrated microfluidic system for sensing infectious viral disease. <i>Electrophoresis</i> , 2008, 29, 2960-2969.	1.3	18
215	Removal of bovine serum albumin using solid-phase extraction with in-situ polymerized stationary phase in a microfluidic device. <i>Journal of Chromatography A</i> , 2008, 1187, 11-17.	1.8	16
216	Advanced cleanup process of the free-flow microfluidic device for protein analysis. <i>Ultramicroscopy</i> , 2008, 108, 1365-1370.	0.8	10

#	ARTICLE	IF	CITATIONS
217	Microfluidic cell disruption system employing a magnetically actuated diaphragm. <i>Electrophoresis</i> , 2007, 28, 4748-4757.	1.3	26
218	Protein Nanopatterns and Biosensors Using Gold Binding Polypeptide as a Fusion Partner. <i>Analytical Chemistry</i> , 2006, 78, 7197-7205.	3.2	117
219	Polyhydroxyalkanoate chip for the specific immobilization of recombinant proteins and its applications in immunodiagnosics. <i>Biotechnology and Bioprocess Engineering</i> , 2006, 11, 173.	1.4	14
220	Micropatterning proteins on polyhydroxyalkanoate substrates by using the substrate binding domain as a fusion partner. <i>Biotechnology and Bioengineering</i> , 2005, 92, 160-165.	1.7	17
221	Selective Immobilization of Fusion Proteins on Poly(hydroxyalkanoate) Microbeads. <i>Analytical Chemistry</i> , 2005, 77, 5755-5759.	3.2	42
222	Microcontact printing of biotin for selective immobilization of streptavidin-fused proteins and SPR analysis. <i>Biotechnology and Bioprocess Engineering</i> , 2004, 9, 137-142.	1.4	21
223	Roles and applications of small heat shock proteins in the production of recombinant proteins in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2004, 88, 426-436.	1.7	47
224	Micropatterns of Spores Displaying Heterologous Proteins. <i>Journal of the American Chemical Society</i> , 2004, 126, 10512-10513.	6.6	40
225	High Cell Density Culture of <i>Yarrowia lipolytica</i> Using a One-Step Feeding Process. <i>Biotechnology Progress</i> , 2000, 16, 657-660.	1.3	48
226	All Redox-active 2D MXene and 0D Phosphomolybdic Acid Nanoclusters-Anchored Polypyrrole Nanotubes for High-Performance Aqueous Hybrid Supercapacitors. <i>Batteries and Supercaps</i> , 0, , .	2.4	1