

Tae-Jung Park

List of Publications by Year in descending order

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226
papers

8,303
citations

41344
49
h-index

71685
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.	8.2	40
2	A phage virus-based electrochemical biosensor for highly sensitive detection of ovomucoid. Food Chemistry, 2022, 378, 132061.	8.2	17
3	Target delivery of photo-triggered nanocarrier for externally activated chemo-photodynamic therapy of prostate cancer. Materials Today Chemistry, 2022, 23, 100688.	3.5	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.	4.6	10
7	Graphene Oxide-Mediated Fluorometric Aptasensor for Okadaic Acid Detection. Biochip Journal, 2022, 16, 207-213.	4.9	9
8	Applications of upconversion nanoparticles in analytical and biomedical sciences: a review. Analyst, The, 2022, 147, 3155-3179.	3.5	25
9	Dual synergistic response for the electrochemical detection of H1N1 virus and viral proteins using high affinity peptide receptors. Talanta, 2022, 248, 123613.	5.5	5
10	Affinity Peptide-based Electrochemical Biosensor for the Highly Sensitive Detection of Bovine Rotavirus. Biotechnology and Bioprocess Engineering, 2022, 27, 607-614.	2.6	9
11	Effect of Sulfamerazine on Structural Characteristics of Sodium Alginate Biopolymeric Films. Biotechnology and Bioprocess Engineering, 2022, 27, 596-606.	2.6	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.	11.4	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.	12.7	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.	7.8	2
15	Applications of single-drop microextraction in analytical chemistry: A review. Trends in Environmental Analytical Chemistry, 2021, 29, e00113.	10.3	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.	5.4	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.	4.9	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.	5.0	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.	4.6	6
20	Recent advances of bimetallic nanomaterials and its nanocomposites for biosensing applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 135, 116159.	11.4	49
21	Determination of thallium(^{III}) ions by oxidative hydrolysis of rhodamine-6G-hydroxamate. <i>New Journal of Chemistry</i> , 2021, 45, 603-609.	2.8	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.	3.4	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.	11.4	33
24	Functionalization of Silver Nanoparticles with Carbohydrate Derivative for Colorimetric Assay of Thiram. <i>Journal of Electronic Materials</i> , 2021, 50, 3676-3685.	2.2	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.	7.8	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.	8.0	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.	4.5	34
28	Biomimetic isolation of affinity peptides for electrochemical detection of influenza virus antigen. <i>Sensors and Actuators B: Chemical</i> , 2021, 343, 130161.	7.8	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.	8.2	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.	11.4	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.	7.8	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.	3.5	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.	5.0	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.	11.3	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.	7.3	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.	4.5	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.	7.8	19
40	Fluorescence detection of histamine based on specific binding bioreceptors and carbon quantum dots. <i>Biosensors and Bioelectronics</i> , 2020, 167, 112519.	10.1	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.	3.6	11
42	Colorimetric detection of creatinine using its specific binding peptides and gold nanoparticles. <i>New Journal of Chemistry</i> , 2020, 44, 15828-15835.	2.8	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.	2.8	9
44	Phytotoxicity of different antibiotics to rice and stress alleviation upon application of organic amendments. <i>Chemosphere</i> , 2020, 258, 127353.	8.2	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.	4.9	5
46	Dual signaling of thallium(III) ions via oxidative cleavage of a sulfonhydrazide linkage. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 394, 112471.	3.9	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.	5.5	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.	3.8	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.	7.3	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.	4.9	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.	7.8	12
52	An affinity peptide-incorporated electrochemical biosensor for the detection of neutrophil gelatinase-associated lipocalin. <i>Biosensors and Bioelectronics</i> , 2019, 142, 111482.	10.1	44
53	Assembly of 6-aza-2-thiothymine on gold nanoparticles for selective and sensitive colorimetric detection of penciclovir in water and food samples. <i>Talanta</i> , 2019, 205, 120087.	5.5	19
54	A simple hypochlorous acid signaling probe based on resorufin carbonodithioate and its biological application. <i>Analyst</i> , 2019, 144, 7263-7269.	3.5	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.	3.5	64
56	Recent advances of upconversion nanoparticles in theranostics and bioimaging applications. TrAC - Trends in Analytical Chemistry, 2019, 120, 115646.	11.4	65
57	Cuvette-Type LSPR Sensor for Highly Sensitive Detection of Melamine in Infant Formulas. Sensors, 2019, 19, 3839.	3.8	26
58	Development of peptide biosensor for the detection of dengue fever biomarker, nonstructural 1. PLoS ONE, 2019, 14, e0222144.	2.5	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.	3.5	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.	7.8	10
61	Affinity Peptide-guided Plasmonic Biosensor for Detection of Noroviral Protein and Human Norovirus. Biotechnology and Bioprocess Engineering, 2019, 24, 318-325.	2.6	35
62	Reaction-based fluorometric analysis of N-bromosuccinimide by oxidative deprotection of dithiane. Analyst, The, 2019, 144, 3267-3273.	3.5	2
63	Localization and persistence of hepatitis A virus in artificially contaminated oysters. International Journal of Food Microbiology, 2019, 299, 58-63.	4.7	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.	7.3	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.	5.4	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.	2.8	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.	10.1	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.	7.3	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.	3.8	113
70	Trends in Diagnosis for Active Tuberculosis Using Nanomaterials. Current Medicinal Chemistry, 2019, 26, 1946-1959.	2.4	6
71	An electrochemical peptide sensor for detection of dengue fever biomarker NS1. Analytica Chimica Acta, 2018, 1026, 109-116.	5.4	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.	2.8	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.	3.9	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.	1.0	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.	5.3	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.	1.4	5
77	Microfluidic dual loops reactor for conducting a multistep reaction. <i>Frontiers of Chemical Science and Engineering</i> , 2018, 12, 239-246.	4.4	6
78	Selection of affinity peptides for interference-free detection of cholera toxin. <i>Biosensors and Bioelectronics</i> , 2018, 99, 289-295.	10.1	28
79	Morphological evolution of upconversion nanoparticles and their biomedical signal generation. <i>Scientific Reports</i> , 2018, 8, 17101.	3.3	37
80	Selective and Sensitive Colorimetric Recognition of Ba ²⁺ Ion Using Guanidine-Functionalized Silver Nanoparticles. <i>ChemistrySelect</i> , 2018, 3, 10182-10187.	1.5	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.	5.2	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.	4.3	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.	10.1	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.	7.8	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.	2.8	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.	7.1	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.	11.4	152
88	Rapid discriminative detection of dengue viruses via loop mediated isothermal amplification. <i>Talanta</i> , 2018, 190, 391-396.	5.5	32
89	Rapid Determination of Ethyl Alcohol in Alcoholic Beverages Using a Fluorescent Nanofiber Film. <i>Biochip Journal</i> , 2018, 12, 240-248.	4.9	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.	4.9	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.	7.3	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.	2.3	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.	5.0	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.	5.8	55
95	Hexagonal tungsten oxide nanoflowers as enzymatic mimetics and electrocatalysts. <i>Scientific Reports</i> , 2017, 7, 40928.	3.3	29
96	Functional fusion proteins and prevention of electrode fouling for a sensitive electrochemical immunosensor. <i>Analytica Chimica Acta</i> , 2017, 967, 70-77.	5.4	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.	10.1	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.	3.5	12
99	Wrinkled Surface-Mediated Antibacterial Activity of Graphene Oxide Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 1343-1351.	8.0	154
100	Charge and dielectric effects of biomolecules on electrical characteristics of nanowire FET biosensors. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	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.	8.0	31
102	An electrochemical biosensor for detection of the sepsis-related biomarker procalcitonin. <i>RSC Advances</i> , 2017, 7, 36562-36565.	3.6	37
103	Electrochemical peptide sensor for diagnosing adenoma-carcinoma transition in colon cancer. <i>Biosensors and Bioelectronics</i> , 2017, 98, 330-337.	10.1	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.	10.1	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.	10.1	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.	10.1	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.	19.5	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.	3.2	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.	8.0	29
110	Novel water filtration of saline water in the outermost layer of mangrove roots. Scientific Reports, 2016, 6, 20426.	3.3	31
111	Graphene growth from reduced graphene oxide by chemical vapour deposition: seeded growth accompanied by restoration. Scientific Reports, 2016, 6, 22653.	3.3	15
112	Enzymatic formation of carbohydrate rings catalyzed by single-walled carbon nanotubes. Bioprocess and Biosystems Engineering, 2016, 39, 725-733.	3.4	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.	4.9	20
115	Recent tuberculosis diagnosis toward the end TB strategy. Journal of Microbiological Methods, 2016, 123, 51-61.	1.6	38
116	Advances in microbial biosynthesis of metal nanoparticles. Applied Microbiology and Biotechnology, 2016, 100, 521-534.	3.6	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.	1.8	3
118	Organic-inorganic hybrid nanoflowers: types, characteristics, and future prospects. Journal of Nanobiotechnology, 2015, 13, 54.	9.1	134
119	Bio-Inspired Hierarchical Nanowebs for Green Catalysis. Small, 2015, 11, 4292-4297.	10.0	7
120	Label-Free and Real-Time Detection of Avian Influenza Using Nanowire Field Effect Transistors. Journal of Biomedical Nanotechnology, 2015, 11, 1640-1643.	1.1	9
121	Recent Research Trends and Future Prospects in Nanozymes. Journal of Nanomaterials, 2015, 2015, 1-11.	2.7	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.	2.7	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.	2.6	0
124	TCAD-Based Simulation Method for the Electrolyte-Insulator-Semiconductor Field-Effect Transistor. IEEE Transactions on Electron Devices, 2015, 62, 1072-1075.	3.0	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.	7.8	12
126	Dopamine-Assisted Synthesis of Carbon-Coated Silica for PCR Enhancement. ACS Applied Materials & Interfaces, 2015, 7, 15633-15640.	8.0	27

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127	Self-assembly of biogenic gold nanoparticles and their use to enhance drug delivery into cells. Colloids and Surfaces B: Biointerfaces, 2015, 135, 27-34.	5.0	44
128	Development of a portable biosensor system for pesticide detection on a metal chip surface integrated with wireless communication. Food Science and Biotechnology, 2015, 24, 743-750.	2.6	10
129	Robust fluorescence sensing platform for detection of CD44 cells based on graphene oxide/gold nanoparticles. Colloids and Surfaces B: Biointerfaces, 2015, 135, 309-315.	5.0	22
130	A hybrid composite of gold and graphene oxide as a PCR enhancer. RSC Advances, 2015, 5, 93117-93121.	3.6	4
131	A facile and sensitive detection of organophosphorus chemicals by rapid aggregation of gold nanoparticles using organic compounds. Biosensors and Bioelectronics, 2015, 67, 408-412.	10.1	60
132	Direct growth of graphene nanopatches on graphene sheets for highly conductive thin film applications. Journal of Materials Chemistry C, 2015, 3, 725-728.	5.5	7
133	Development of specific immobilization method on gold surface and its application for determining cardiac risk. Biochip Journal, 2014, 8, 295-302.	4.9	4
134	Microbial inactivation and pesticide removal by remote exposure of atmospheric air plasma in confined environments. Journal of Bioscience and Bioengineering, 2014, 117, 81-85.	2.2	38
135	Nanoparticles of Conjugated Polymers Prepared from Phase-Separated Films of Phospholipids and Polymers for Biomedical Applications. Advanced Materials, 2014, 26, 4559-4564.	21.0	60
136	Investigation of Sensor Performance in Accumulation- and Inversion-Mode Silicon Nanowire pH Sensors. IEEE Transactions on Electron Devices, 2014, 61, 1607-1610.	3.0	7
137	Replication of flexible polymer membranes with geometry-controllable nano-apertures via a hierarchical mould-based dewetting. Nature Communications, 2014, 5, 3137.	12.8	59
138	Multiplex electrical detection of avian influenza and human immunodeficiency virus with an underlap-embedded silicon nanowire field-effect transistor. Biosensors and Bioelectronics, 2014, 55, 162-167.	10.1	39
139	Reaction-based colorimetric and fluorogenic signaling of hydrogen sulfide using a 7-nitro-2,1,3-benzoxadiazole-coumarin conjugate. Tetrahedron Letters, 2014, 55, 1171-1174.	1.4	33
140	In situ probing of doping- and stress-mediated phase transitions in a single-crystalline VO ₂ nanobeam by spatially resolved Raman spectroscopy. Nanoscale, 2014, 6, 8068.	5.6	32
141	Micropillar arrays enabling single microbial cell encapsulation in hydrogels. Lab on A Chip, 2014, 14, 1873.	6.0	18
142	Cell-Based Method Utilizing Fluorescent <i>Escherichia coli</i> Auxotrophs for Quantification of Multiple Amino Acids. Analytical Chemistry, 2014, 86, 2489-2496.	6.5	13
143	Electrical Biomolecule Detection Using Nanopatterned Silicon via Block Copolymer Lithography. Small, 2014, 10, 337-343.	10.0	48
144	mPW1PW91 Calculated Structures and IR Spectra of the Conformational Stereoisomers of C-Cyanophenyl Pyrogallol[4]arene. Bulletin of the Korean Chemical Society, 2014, 35, 1323-1328.	1.9	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.	4.0	20
146	CRP detection from serum for chip-based point-of-care testing system. Biosensors and Bioelectronics, 2013, 41, 322-327.	10.1	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.	2.8	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.	7.8	32
149	Improvement of Sensitivity and Limit of Detection in a Nanogap Biosensor by Controlling Surface Wettability. BioNanoScience, 2013, 3, 192-197.	3.5	9
150	A biristor based on a floating-body silicon nanowire for biosensor applications. Applied Physics Letters, 2013, 102, .	3.3	11
151	Enhanced Pseudocapacitance of Ionic Liquid/Cobalt Hydroxide Nanohybrids. ACS Nano, 2013, 7, 2453-2460.	14.6	99
152	Surface engineering for enhancement of sensitivity in an underlap-FET biosensor by control of wettability. Biosensors and Bioelectronics, 2013, 41, 867-870.	10.1	46
153	Synthesis of Bioactive Microcapsules Using a Microfluidic Device. Sensors, 2012, 12, 10136-10147.	3.8	15
154	Label-Free Electrochemical Diagnosis of Viral Antigens with Genetically Engineered Fusion Protein. Sensors, 2012, 12, 10097-10108.	3.8	20
155	Development of a Plastic-Based Microfluidic Immunosensor Chip for Detection of H1N1 Influenza. Sensors, 2012, 12, 10810-10819.	3.8	27
156	A nanoforest structure for practical surface-enhanced Raman scattering substrates. Nanotechnology, 2012, 23, 095301.	2.6	25
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