Tae-Jung Park

List of Publications by Year
in descending order

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Version: 2024-02-01

226	8,303	41258	71532
papers	citations	49 h-index	76 g-index

232	232	232	11023
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Solution Chemistry of Self-Assembled Graphene Nanohybrids for High-Performance Flexible Biosensors. ACS Nano, 2010, 4, 2910-2918.	7.3	343
2	Transition from Diffusionâ€Controlled Intercalation into Extrinsically Pseudocapacitive Charge Storage of MoS₂ by Nanoscale Heterostructuring. Advanced Energy Materials, 2016, 6, 1501115.	10.2	185
3	Double-Gate Nanowire Field Effect Transistor for a Biosensor. Nano Letters, 2010, 10, 2934-2938.	4.5	162
4	Wrinkled Surface-Mediated Antibacterial Activity of Graphene Oxide Nanosheets. ACS Applied Materials & Interfaces, 2017, 9, 1343-1351.	4.0	154
5	Recent progress on surface chemistry of plasmonic metal nanoparticles for colorimetric assay of drugs in pharmaceutical and biological samples. TrAC - Trends in Analytical Chemistry, 2018, 105, 106-120.	5.8	152
6	Tuning of carbon dots emission color for sensing of Fe3+ ion and bioimaging applications. Materials Science and Engineering C, 2019, 98, 834-842.	3.8	151
7	Advances in microbial biosynthesis of metal nanoparticles. Applied Microbiology and Biotechnology, 2016, 100, 521-534.	1.7	144
8	In Vivo Synthesis of Diverse Metal Nanoparticles by Recombinant Escherichia coli. Angewandte Chemie - International Edition, 2010, 49, 7019-7024.	7.2	138
9	Cu-nanoflower decorated gold nanoparticles-graphene oxide nanofiber as electrochemical biosensor for glucose detection. Materials Science and Engineering C, 2020, 107, 110273.	3.8	138
10	Organicâ€“inorganic hybrid nanoflowers: types, characteristics, and future prospects. Journal of Nanobiotechnology, 2015, 13, 54.	4.2	134
11	High sensitive and selective electrochemical biosensor: Label-free detection of human norovirus using affinity peptide as molecular binder. Biosensors and Bioelectronics, 2017, 87, 164-170.	5.3	127
12	Nanogap Fieldâ€Effect Transistor Biosensors for Electrical Detection of Avian Influenza. Small, 2009, 5, 2407-2412.	5.2	121
13	Protein Nanopatterns and Biosensors Using Gold Binding Polypeptide as a Fusion Partner. Analytical Chemistry, 2006, 78, 7197-7205.	3.2	117
14	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
15	Directed self-assembly of gold binding polypeptide-protein A fusion proteins for development of gold nanoparticle-based SPR immunosensors. Biosensors and Bioelectronics, 2009, 24, 2592-2597.	5.3	111
16	Fluorescence sensing of Cu2+ ion and imaging of fungal cell by ultra-small fluorescent carbon dots derived from Acacia concinna seeds. Sensors and Actuators B: Chemical, 2018, 277, 47-54.	4.0	110
17	Recombinant Escherichia coli as a biofactory for various single- and multi-element nanomaterials. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5944-5949.	3.3	103
18	One-step sonochemical synthesis of a graphene oxideâ€“manganese oxide nanocomposite for catalytic glycolysis of poly(ethylene terephthalate). Nanoscale, 2012, 4, 3879.	2.8	99

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19	Enhanced Pseudocapacitance of Ionic Liquid/Cobalt Hydroxide Nanohybrids. ACS Nano, 2013, 7, 2453-2460.	7.3	99
20	Graphene-based electrochemical biosensor for pathogenic virus detection. Biochip Journal, 2011, 5, 123-128.	2.5	97
21	A self-assembled fusion protein-based surface plasmon resonance biosensor for rapid diagnosis of severe acute respiratory syndrome. Talanta, 2009, 79, 295-301.	2.9	84
22	Dose-dependent physiological responses of Triticum aestivum L. to soil applied TiO2 nanoparticles: Alterations in chlorophyll content, H2O2 production, and genotoxicity. Agriculture, Ecosystems and Environment, 2018, 255, 95-101.	2.5	84
23	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
24	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
25	Ultrasensitive DNA monitoring by Auâ€“Fe3O4 nanocomplex. Sensors and Actuators B: Chemical, 2012, 163, 224-232.	4.0	76
26	Facile green synthesis of carbon dots from Pyrus pyrifolia fruit for assaying of Al3+ ion via chelation enhanced fluorescence mechanism. Journal of Molecular Liquids, 2018, 264, 9-16.	2.3	76
27	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
28	Plasmonic Properties of the Multispot Copper-Capped Nanoparticle Array Chip and Its Application to Optical Biosensors for Pathogen Detection of Multiplex DNAs. Analytical Chemistry, 2011, 83, 6215-6222.	3.2	69
29	Synthesis of upconversion nanoparticles conjugated with graphene oxide quantum dots and their use against cancer cell imaging and photodynamic therapy. Biosensors and Bioelectronics, 2017, 93, 267-273.	5.3	69
30	Electrochemical immunosensor using nanotriplex of graphene quantum dots, Fe3O4, and Ag nanoparticles for tuberculosis. Electrochimica Acta, 2018, 290, 369-377.	2.6	67
31	The role of metal dopants in WS2 nanoflowers in enhancing the hydrogen evolution reaction. Applied Catalysis A: General, 2018, 567, 73-79.	2.2	66
32	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
33	Continuous In Situ Synthesis of ZnSe/ZnS Core/Shell Quantum Dots in a Microfluidic Reaction System and its Application for Lightâ€Emitting Diodes. Small, 2012, 8, 3257-3262.	5.2	65
34	Recent advances of upconversion nanoparticles in theranostics and bioimaging applications. TrAC - Trends in Analytical Chemistry, 2019, 120, 115646.	5.8	65
35	Acid Oxidation of Muskmelon Fruit for the Fabrication of Carbon Dots with Specific Emission Colors for Recognition of Hg²⁺ Ions and Cell Imaging. ACS Omega, 2019, 4, 19332-19340.	1.6	64
36	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. IEEE Sensors Journal, 2011, 11, 351-360.	2.4	62

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37	Development of the electrochemical biosensor for organophosphate chemicals using CNT/ionic liquid bucky gel electrode. Electrochemistry Communications, 2009, 11, 672-675.	2.3	61
38	Nanoparticles of Conjugated Polymers Prepared from Phaseâ€Separated Films of Phospholipids and Polymers for Biomedical Applications. Advanced Materials, 2014, 26, 4559-4564.	11.1	60
39	A facile and sensitive detection of organophosphorus chemicals by rapid aggregation of gold nanoparticles using organic compounds. Biosensors and Bioelectronics, 2015, 67, 408-412.	5.3	60
40	Replication of flexible polymer membranes with geometry-controllable nano-apertures via a hierarchical mould-based dewetting. Nature Communications, 2014, 5, 3137.	5.8	59
41	An underlap field-effect transistor for electrical detection of influenza. Applied Physics Letters, 2010, 96, .	1.5	57
42	CRP detection from serum for chip-based point-of-care testing system. Biosensors and Bioelectronics, 2013, 41, 322-327.	5.3	57
43	Microwave-assisted synthesis of highly water-soluble graphene towards electrical DNA sensor. Nanoscale, 2010, 2, 2692.	2.8	56
44	Applications of single-drop microextraction in analytical chemistry: A review. Trends in Environmental Analytical Chemistry, 2021, 29, e00113.	5.3	56
45	A simple and eco-friendly one-pot synthesis of nuclease-resistant DNAâ€“inorganic hybrid nanoflowers. Journal of Materials Chemistry B, 2017, 5, 2231-2234.	2.9	55
46	Fluorescence detection of histamine based on specific binding bioreceptors and carbon quantum dots. Biosensors and Bioelectronics, 2020, 167, 112519.	5.3	54
47	Influence of ligand chemistry on silver nanoparticles for colorimetric detection of Cr3+ and Hg2+ ions. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 195, 120-127.	2.0	53
48	Recent Research Trends and Future Prospects in Nanozymes. Journal of Nanomaterials, 2015, 2015, 1-11.	1.5	52
49	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
50	Directed Selfâ€Assembly of Gold Nanoparticles on Grapheneâ€Ionic Liquid Hybrid for Enhancing Electrocatalytic Activity. Electroanalysis, 2011, 23, 850-857.	1.5	51
51	Site-specific immobilization of gold binding polypeptide on gold nanoparticle-coated graphene sheet for biosensor application. Nanoscale, 2011, 3, 2950.	2.8	50
52	An electrochemical peptide sensor for detection of dengue fever biomarker NS1. Analytica Chimica Acta, 2018, 1026, 109-116.	2.6	50
53	Synthesis of fluorescent silicon quantum dots for ultra-rapid and selective sensing of Cr(VI) ion and biomonitoring of cancer cells. Materials Science and Engineering C, 2018, 93, 429-436.	3.8	50
54	An easy and sensitive sandwich assay for detection of Mycobacterium tuberculosis Ag85B antigen using quantum dots and gold nanorods. Biosensors and Bioelectronics, 2017, 87, 150-156.	5.3	49

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55	Recent advances of bimetallic nanomaterials and its nanocomposites for biosensing applications. TrAC - Trends in Analytical Chemistry, 2021, 135, 116159.	5.8	49
56	High Cell Density Culture of Yarrowia lipolytica Using a One-Step Feeding Process. Biotechnology Progress, 2000, 16, 657-660.	1.3	48
57	Electrical Biomolecule Detection Using Nanopatterned SiliconÂvia Block Copolymer Lithography. Small, 2014, 10, 337-343.	5.2	48
58	Roles and applications of small heat shock proteins in the production of recombinant proteins inEscherichia coli. Biotechnology and Bioengineering, 2004, 88, 426-436.	1.7	47
59	Label-free optical diagnosis of hepatitis B virus with genetically engineered fusion proteins. Talanta, 2010, 82, 803-809.	2.9	46
60	Ultrasensitive immunosensing of tuberculosis CFP-10 based on SPR spectroscopy. Sensors and Actuators B: Chemical, 2011, 156, 271-275.	4.0	46
61	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
62	Rapid separation of bacteriorhodopsin using a laminar-flow extraction system in a microfluidic device. Biomicrofluidics, 2010, 4, 014103.	1.2	44
63	Self-assembly of biogenic gold nanoparticles and their use to enhance drug delivery into cells. Colloids and Surfaces B: Biointerfaces, 2015, 135, 27-34.	2.5	44
64	An affinity peptide-incorporated electrochemical biosensor for the detection of neutrophil gelatinase-associated lipocalin. Biosensors and Bioelectronics, 2019, 142, 111482.	5.3	44
65	Phytotoxicity of different antibiotics to rice and stress alleviation upon application of organic amendments. Chemosphere, 2020, 258, 127353.	4.2	43
66	Selective Immobilization of Fusion Proteins on Poly(hydroxyalkanoate) Microbeads. Analytical Chemistry, 2005, 77, 5755-5759.	3.2	42
67	Functionalization Effects of Single-Walled Carbon Nanotubes as Templates for the Synthesis of Silica Nanorods and Study of Growing Mechanism of Silica. ACS Nano, 2010, 4, 3933-3942.	7.3	42
68	In Vitro Biosynthesis of Metal Nanoparticles in Microdroplets. ACS Nano, 2012, 6, 6998-7008.	7.3	42
69	A facile hydrothermal synthesis of highly luminescent NaYF4:Yb3+/Er3+ upconversion nanoparticles and their biomonitoring capability. Materials Science and Engineering C, 2019, 99, 1067-1074.	3.8	42
70	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. Analyst, The, 2021, 146, 1489-1513.	1.7	42
71	Early detection of the growth of Mycobacterium tuberculosis using magnetophoretic immunoassay in liquid culture. Biosensors and Bioelectronics, 2017, 96, 68-76.	5.3	41
72	Synergistic molecular assembly of an aptamer and surfactant on gold nanoparticles for the colorimetric detection of trace levels of As³⁺ ions in real samples. New Journal of Chemistry, 2018, 42, 11530-11538.	1.4	41

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73	Micropatterns of Spores Displaying Heterologous Proteins. Journal of the American Chemical Society, 2004, 126, 10512-10513.	6.6	40
74	Recent advances in analytical strategies and microsystems for food allergen detection. Food Chemistry, 2022, 371, 131120.	4.2	40
75	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.	5.3	39
76	Development of aflatoxin B1 aptasensor based on wide-range fluorescence detection using graphene oxide quencher. Colloids and Surfaces B: Biointerfaces, 2017, 154, 27-32.	2.5	39
77	Homogeneous Biogenic Paramagnetic Nanoparticle Synthesis Based on a Microfluidic Droplet Generator. Angewandte Chemie - International Edition, 2012, 51, 5634-5637.	7.2	38
78	Microbial inactivation and pesticide removal by remote exposure of atmospheric air plasma in confined environments. Journal of Bioscience and Bioengineering, 2014, 117, 81-85.	1.1	38
79	Recent tuberculosis diagnosis toward the end TB strategy. Journal of Microbiological Methods, 2016, 123, 51-61.	0.7	38
80	Facile synthesis of carbon dots from Tagetes erecta as a precursor for determination of chlorpyrifos via fluorescence turn-off and quinalphos via fluorescence turn-on mechanisms. Chemosphere, 2021, 279, 130515.	4.2	38
81	An electrochemical biosensor for detection of the sepsis-related biomarker procalcitonin. RSC Advances, 2017, 7, 36562-36565.	1.7	37
82	Morphological evolution of upconversion nanoparticles and their biomedical signal generation. Scientific Reports, 2018, 8, 17101.	1.6	37
83	Synthesis and utilization of E. coliâ€encapsulated PEGâ€based microdroplet using a microfluidic chip for biological application. Biotechnology and Bioengineering, 2010, 107, 747-751.	1.7	36
84	Gold-copper nanoshell dot-blot immunoassay for naked-eye sensitive detection of tuberculosis specific CFP-10 antigen. Biosensors and Bioelectronics, 2018, 121, 111-117.	5.3	36
85	Affinity Peptide-guided Plasmonic Biosensor for Detection of Noroviral Protein and Human Norovirus. Biotechnology and Bioprocess Engineering, 2019, 24, 318-325.	1.4	35
86	Green synthesis of carbon dots from Calotropis procera leaves for trace level identification of isoprothiolane. Microchemical Journal, 2021, 167, 106272.	2.3	34
87	Reaction-based colorimetric and fluorogenic signaling of hydrogen sulfide using a 7-nitro-2,1,3-benzoxadiazoleâ€“coumarin conjugate. Tetrahedron Letters, 2014, 55, 1171-1174.	0.7	33
88	Screening of specific binding peptides using phage-display techniques and their biosensing applications. TrAC - Trends in Analytical Chemistry, 2021, 137, 116229.	5.8	33
89	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
90	In situ probing of doping- and stress-mediated phase transitions in a single-crystalline VO2 nanobeam by spatially resolved Raman spectroscopy. Nanoscale, 2014, 6, 8068.	2.8	32

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91	Rapid discriminative detection of dengue viruses via loop mediated isothermal amplification. Talanta, 2018, 190, 391-396.	2.9	32
92	Recent progress on the modifications of ultra-small perovskite nanomaterials for sensing applications. TrAC - Trends in Analytical Chemistry, 2021, 144, 116432.	5.8	32
93	Novel water filtration of saline water in the outermost layer of mangrove roots. Scientific Reports, 2016, 6, 20426.	1.6	31
94	Reducing Agent-Assisted Excessive Galvanic Replacement Mediated Seed-Mediated Synthesis of Porous Gold Nanoplates and Highly Efficient Gene-Thermo Cancer Therapy. ACS Applied Materials & Interfaces, 2017, 9, 35268-35278.	4.0	31
95	Lysozyme-Decorated Gold and Molybdenum Bimetallic Nanoclusters for the Selective Detection of Bilirubin as a Jaundice Biomarker. ACS Applied Nano Materials, 2021, 4, 11949-11959.	2.4	31
96	A biomolecular detection method based on charge pumping in a nanogap embedded field-effect-transistor biosensor. Applied Physics Letters, 2009, 94, .	1.5	30
97	The effects of the physical properties of culture substrates on the growth and differentiation of human embryonic stem cells. Biomaterials, 2011, 32, 8816-8829.	5.7	30
98	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
99	Detection of the Most Common Corneal Dystrophies Caused by BIGH3 Gene Point Mutations Using a Multispot Gold-Capped Nanoparticle Array Chip. Analytical Chemistry, 2010, 82, 1349-1357.	3.2	29
100	In vivo synthesis of europium selenide nanoparticles and related cytotoxicity evaluation of human cells. Enzyme and Microbial Technology, 2016, 95, 201-208.	1.6	29
101	Plastic-Chip-Based Magnetophoretic Immunoassay for Point-of-Care Diagnosis of Tuberculosis. ACS Applied Materials & Interfaces, 2016, 8, 23489-23497.	4.0	29
102	Hexagonal tungsten oxide nanoflowers as enzymatic mimetics and electrocatalysts. Scientific Reports, 2017, 7, 40928.	1.6	29
103	Novel peptides functionalized gold nanoparticles decorated tungsten disulfide nanoflowers as the electrochemical sensing platforms for the norovirus in an oyster. Food Control, 2020, 114, 107225.	2.8	29
104	Selection of affinity peptides for interference-free detection of cholera toxin. Biosensors and Bioelectronics, 2018, 99, 289-295.	5.3	28
105	Development of a Plastic-Based Microfluidic Immunosensor Chip for Detection of H1N1 Influenza. Sensors, 2012, 12, 10810-10819.	2.1	27
106	Colorimetric Detection System forSalmonella typhimuriumBased on Peroxidase-Like Activity of Magnetic Nanoparticles with DNA Aptamers. Journal of Nanomaterials, 2015, 2015, 1-9.	1.5	27
107	Dopamine-Assisted Synthesis of Carbon-Coated Silica for PCR Enhancement. ACS Applied Materials & Interfaces, 2015, 7, 15633-15640.	4.0	27
108	Microfluidic cell disruption system employing a magnetically actuated diaphragm. Electrophoresis, 2007, 28, 4748-4757.	1.3	26

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109	TCAD-Based Simulation Method for the Electrolyteâ€“Insulatorâ€“Semiconductor Field-Effect Transistor. IEEE Transactions on Electron Devices, 2015, 62, 1072-1075.	1.6	26
110	Cuvette-Type LSPR Sensor for Highly Sensitive Detection of Melamine in Infant Formulas. Sensors, 2019, 19, 3839.	2.1	26
111	Photo-induced reactions for disassembling of coloaded photosensitizer and drug molecules from upconversion-mesoporous silica nanoparticles: An effective synergistic cancer therapy. Materials Science and Engineering C, 2020, 110, 110545.	3.8	26
112	Immobilization of genetically engineered fusion proteins on gold-decorated carbon nanotube hybrid films for the fabrication of biosensor platforms. Journal of Colloid and Interface Science, 2010, 350, 453-458.	5.0	25
113	A nanoforest structure for practical surface-enhanced Raman scattering substrates. Nanotechnology, 2012, 23, 095301.	1.3	25
114	Development of peptide biosensor for the detection of dengue fever biomarker, nonstructural 1. PLoS ONE, 2019, 14, e0222144.	1.1	25
115	Applications of upconversion nanoparticles in analytical and biomedical sciences: a review. Analyst, The, 2022, 147, 3155-3179.	1.7	25
116	Programmable peptide-directed two dimensional arrays of various nanoparticles on graphene sheets. Nanoscale, 2011, 3, 3208.	2.8	24
117	Investigation of Size Dependence on Sensitivity for Nanowire FET Biosensors. IEEE Nanotechnology Magazine, 2011, 10, 1405-1411.	1.1	24
118	Development of Reflective Biosensor Using Fabrication of Functionalized Photonic Nanocrystals. Journal of Nanoscience and Nanotechnology, 2011, 11, 632-637.	0.9	24
119	Electrochemical peptide sensor for diagnosing adenoma-carcinoma transition in colon cancer. Biosensors and Bioelectronics, 2017, 98, 330-337.	5.3	24
120	Robust fluorescence sensing platform for detection of CD44 cells based on graphene oxide/gold nanoparticles. Colloids and Surfaces B: Biointerfaces, 2015, 135, 309-315.	2.5	22
121	Diaminodiphenyl sulfone as a novel ligand for synthesis of gold nanoparticles for simultaneous colorimetric assay of three trivalent metal cations (Al3+, Fe3+ and Cr3+). Journal of Molecular Liquids, 2020, 312, 113409.	2.3	22
122	Microcontact printing of biotin for selective immobilization of streptavidin-fused proteins and SPR analysis. Biotechnology and Bioprocess Engineering, 2004, 9, 137-142.	1.4	21
123	Trypsin encapsulated gold-silver bimetallic nanoclusters for recognition of quinalphos via fluorescence quenching and of Zn2+ and Cd2+ ions via fluorescence enhancement. Journal of Molecular Liquids, 2021, 327, 114830.	2.3	21
124	Functionalization of gold nanoparticles using guanidine thiocyanate for sensitive and selective visual detection of Cd2+. Sensors and Actuators B: Chemical, 2021, 334, 129685.	4.0	21
125	Label-Free Electrochemical Diagnosis of Viral Antigens with Genetically Engineered Fusion Protein. Sensors, 2012, 12, 10097-10108.	2.1	20
126	Surface display of recombinant proteins on Escherichia coli by BclA exosporium of Bacillus anthracis. Microbial Cell Factories, 2013, 12, 81.	1.9	20

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127	Sensitive detection of lead ions using sodium thiosulfate and surfactant-capped gold nanoparticles. Biochip Journal, 2016, 10, 65-73.	2.5	20
128	Development of a whole-cell biosensor by cell surface display of a gold-binding polypeptide on the gold surface. FEMS Microbiology Letters, 2009, 293, 141-147.	0.7	19
129	Nanowire FET Biosensors on a Bulk Silicon Substrate. IEEE Transactions on Electron Devices, 2012, 59, 2243-2249.	1.6	19
130	Charge and dielectric effects of biomolecules on electrical characteristics of nanowire FET biosensors. Applied Physics Letters, 2017, 111, .	1.5	19
131	Assembly of 6-aza-2-thiothymine on gold nanoparticles for selective and sensitive colorimetric detection of pencycuron in water and food samples. Talanta, 2019, 205, 120087.	2.9	19
132	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
133	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. Sensors and Actuators B: Chemical, 2020, 322, 128603.	4.0	19
134	Biomimetic isolation of affinity peptides for electrochemical detection of influenza virus antigen. Sensors and Actuators B: Chemical, 2021, 343, 130161.	4.0	19
135	Development of a fully integrated microfluidic system for sensing infectious viral disease. Electrophoresis, 2008, 29, 2960-2969.	1.3	18
136	Synthesis and characterization of gold-deposited red, green and blue fluorescent silica nanoparticles for biosensor application. Chemical Communications, 2010, 46, 6374.	2.2	18
137	Micropillar arrays enabling single microbial cell encapsulation in hydrogels. Lab on A Chip, 2014, 14, 1873.	3.1	18
138	Detection of Escherichia coli O157:H7 Using Automated Immunomagnetic Separation and Enzyme-Based Colorimetric Assay. Sensors, 2020, 20, 1395.	2.1	18
139	Micropatterning proteins on polyhydroxyalkanoate substrates by using the substrate binding domain as a fusion partner. Biotechnology and Bioengineering, 2005, 92, 160-165.	1.7	17
140	A phage virus-based electrochemical biosensor for highly sensitive detection of ovomucoid. Food Chemistry, 2022, 378, 132061.	4.2	17
141	Removal of bovine serum albumin using solid-phase extraction with in-situ polymerized stationary phase in a microfluidic device. Journal of Chromatography A, 2008, 1187, 11-17.	1.8	16
142	Review on matrix-assisted laser desorption/ionization time-of-flight mass spectrometry for the rapid screening of microbial species: A promising bioanalytical tool. Microchemical Journal, 2020, 159, 105387.	2.3	16
143	Clinical Trial: Magnetoplasmonic ELISA for Urine-based Active Tuberculosis Detection and Anti-Tuberculosis Therapy Monitoring. ACS Central Science, 2021, 7, 1898-1907.	5.3	16
144	Synthesis of Bioactive Microcapsules Using a Microfluidic Device. Sensors, 2012, 12, 10136-10147.	2.1	15

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145	Graphene growth from reduced graphene oxide by chemical vapour deposition: seeded growth accompanied by restoration. Scientific Reports, 2016, 6, 22653.	1.6	15
146	A simple hypochlorous acid signaling probe based on resorufin carbonodithioate and its biological application. Analyst, The, 2019, 144, 7263-7269.	1.7	15
147	Polyhydroxyalkanoate chip for the specific immobilization of recombinant proteins and its applications in immunodiagnostics. Biotechnology and Bioprocess Engineering, 2006, 11, 173.	1.4	14
148	Synthesis of Graphene-Gold Nanocomposites via Sonochemical Reduction. Journal of Nanoscience and Nanotechnology, 2011, 11, 6095-6101.	0.9	14
149	Colorimetric Detection of Mycobacterium tuberculosis 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
150	In SituBiosynthesis of a Metal Nanoparticle Encapsulated in Alginate Gel for Imageable Drug-Delivery System. ACS Applied Materials & Interfaces, 2021, 13, 36697-36708.	4.0	14
151	Spore Display Using Bacillus thuringiensis Exosporium Protein InhA. Journal of Microbiology and Biotechnology, 2009, 19, 495-501.	0.9	14
152	Microarray of DNAâ€“protein complexes on poly-3-hydroxybutyrate surface for pathogen detection. Analytical and Bioanalytical Chemistry, 2009, 393, 1639-1647.	1.9	13
153	Characterization of a Bacterial Self-Assembly Surface Layer Protein and Its Application as an Electrical Nanobiosensor. Journal of Nanoscience and Nanotechnology, 2011, 11, 402-407.	0.9	13
154	Cell-Based Method Utilizing Fluorescent Escherichia coli Auxotrophs for Quantification of Multiple Amino Acids. Analytical Chemistry, 2014, 86, 2489-2496.	3.2	13
155	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
156	Label-Free Detection of Leptin Antibody-Antigen Interaction by Using LSPR-Based Optical Biosensor. Journal of Nanoscience and Nanotechnology, 2011, 11, 4188-4193.	0.9	12
157	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
158	Portable Agrichemical Detection System for Enhancing the Safety of Agricultural Products Using Aggregation of Gold Nanoparticles. ACS Omega, 2017, 2, 988-993.	1.6	12
159	Data on rhizosphere pH, phosphorus uptake and wheat growth responses upon TiO2 nanoparticles application. Data in Brief, 2018, 17, 890-896.	0.5	12
160	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
161	Rational design of bienzyme nanoparticles-based total cholesterol electrochemical sensors and the construction of cholesterol oxidase expression system. Sensors and Actuators B: Chemical, 2021, 349, 130742.	4.0	12
162	Reliable naked-eye detection of Mycobacterium tuberculosis antigen 85B using gold and copper nanoshell-enhanced immunoblotting techniques. Sensors and Actuators B: Chemical, 2020, 317, 128220.	4.0	12

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163	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
164	Free-flow isoelectric focusing microfluidic device with glass coating by solâ€“gel methods. Current Applied Physics, 2009, 9, e66-e70.	1.1	11
165	A charge pumping technique to identify biomolecular charge polarity using a nanogap embedded biotransistor. Applied Physics Letters, 2010, 97, .	1.5	11
166	Organoclayâ€assisted interfacial polymerization for microfluidic production of monodisperse PEGâ€microdroplets and in situ encapsulation of E. coli. Biotechnology and Bioengineering, 2012, 109, 289-294.	1.7	11
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