

Subash C B Gopinath

List of Publications by Year in descending order

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424
papers

9,736
citations

41339

49
h-index

69246

77
g-index

429
all docs

429
docs citations

429
times ranked

9281
citing authors

#	ARTICLE	IF	CITATIONS
1	Aptamers as a replacement for antibodies in enzyme-linked immunosorbent assay. <i>Biosensors and Bioelectronics</i> , 2015, 64, 392-403.	10.1	473
2	Colorimetric detection of controlled assembly and disassembly of aptamers on unmodified gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2014, 51, 115-123.	10.1	216
3	Graphene-based electrochemical biosensors for monitoring noncommunicable disease biomarkers. <i>Biosensors and Bioelectronics</i> , 2019, 130, 276-292.	10.1	180
4	Diagnostics on acute myocardial infarction: Cardiac troponin biomarkers. <i>Biosensors and Bioelectronics</i> , 2015, 70, 209-220.	10.1	175
5	An RNA aptamer that distinguishes between closely related human influenza viruses and inhibits haemagglutinin-mediated membrane fusion. <i>Journal of General Virology</i> , 2006, 87, 479-487.	2.9	174
6	Assays for aptamer-based platforms. <i>Biosensors and Bioelectronics</i> , 2012, 34, 1-11.	10.1	169
7	Bacterial detection: From microscope to smartphone. <i>Biosensors and Bioelectronics</i> , 2014, 60, 332-342.	10.1	131
8	Shape- and Size-Controlled Synthesis of Silver Nanoparticles Using Aloe vera Plant Extract and Their Antimicrobial Activity. <i>Nanoscale Research Letters</i> , 2016, 11, 520.	5.7	127
9	A high-performance waveguide-mode biosensor for detection of factor IX using PEG-based blocking agents to suppress non-specific binding and improve sensitivity. <i>Analyst, The</i> , 2013, 138, 2863.	3.5	123
10	Synthesis and characterization of cotton fiber-based nanocellulose. <i>International Journal of Biological Macromolecules</i> , 2018, 109, 832-836.	7.5	118
11	Biotechnological Processes in Microbial Amylase Production. <i>BioMed Research International</i> , 2017, 2017, 1-9.	1.9	113
12	Single-stranded DNA (ssDNA) production in DNA aptamer generation. <i>Analyst, The</i> , 2012, 137, 1307.	3.5	111
13	An Efficient RNA Aptamer against Human Influenza B Virus Hemagglutinin. <i>Journal of Biochemistry</i> , 2006, 139, 837-846.	1.7	107
14	Current aspects in immunosensors. <i>Biosensors and Bioelectronics</i> , 2014, 57, 292-302.	10.1	104
15	Feasibility of graphene in biomedical applications. <i>Biomedicine and Pharmacotherapy</i> , 2017, 94, 354-361.	5.6	104
16	Extracellular enzymatic activity profiles in fungi isolated from oil-rich environments. <i>Mycoscience</i> , 2005, 46, 119-126.	0.8	101
17	Aptamer That Binds to the gD Protein of Herpes Simplex Virus 1 and Efficiently Inhibits Viral Entry. <i>Journal of Virology</i> , 2012, 86, 6732-6744.	3.4	97
18	Spotted Nanoflowers™: Gold-seeded Zinc Oxide Nanohybrid for Selective Bio-capture. <i>Scientific Reports</i> , 2015, 5, 12231.	3.3	92

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19	Aptamer-based "point-of-care testing"™. <i>Biotechnology Advances</i> , 2016, 34, 198-208.	11.7	89
20	Strategies to Characterize Fungal Lipases for Applications in Medicine and Dairy Industry. <i>BioMed Research International</i> , 2013, 2013, 1-10.	1.9	87
21	Purification of keratinase from poultry farm isolate- <i>Scopulariopsis brevicaulis</i> and statistical optimization of enzyme activity. <i>Enzyme and Microbial Technology</i> , 2005, 36, 639-647.	3.2	85
22	Generation of Anti-Influenza Aptamers Using the Systematic Evolution of Ligands by Exponential Enrichment for Sensing Applications. <i>Langmuir</i> , 2013, 29, 15107-15115.	3.5	85
23	Aptamers that bind to the hemagglutinin of the recent pandemic influenza virus H1N1 and efficiently inhibit agglutination. <i>Acta Biomaterialia</i> , 2013, 9, 8932-8941.	8.3	83
24	Label-free methods of reporting biomolecular interactions by optical biosensors. <i>Analyst</i> , The, 2013, 138, 3576.	3.5	83
25	Gold-nanorod enhances dielectric voltammetry detection of c-reactive protein: A predictive strategy for cardiac failure. <i>Biosensors and Bioelectronics</i> , 2019, 130, 40-47.	10.1	83
26	Current and future envision on developing biosensors aided by 2D molybdenum disulfide (MoS ₂) productions. <i>Biosensors and Bioelectronics</i> , 2019, 132, 248-264.	10.1	83
27	Biosensing applications of surface plasmon resonance-based Biacore technology. <i>Sensors and Actuators B: Chemical</i> , 2010, 150, 722-733.	7.8	81
28	Temperature-dependent green biosynthesis and characterization of silver nanoparticles using balloon flower plants and their antibacterial potential. <i>Journal of Molecular Structure</i> , 2019, 1177, 302-309.	3.6	76
29	A needle-like Cu ₂ CdSnS ₄ alloy nanostructure-based integrated electrochemical biosensor for detecting the DNA of Dengue serotype 2. <i>Mikrochimica Acta</i> , 2017, 184, 2211-2218.	5.0	75
30	Optimization of extracellular keratinase production by poultry farm isolate <i>Scopulariopsis brevicaulis</i> . <i>Bioresource Technology</i> , 2007, 98, 1298-1303.	9.6	74
31	An angular fluidic channel for prism-free surface-plasmon-assisted fluorescence capturing. <i>Nature Communications</i> , 2013, 4, 2855.	12.8	73
32	Biotin-Streptavidin Competition Mediates Sensitive Detection of Biomolecules in Enzyme Linked Immunosorbent Assay. <i>PLoS ONE</i> , 2016, 11, e0151153.	2.5	72
33	Biotechnological Aspects and Perspective of Microbial Keratinase Production. <i>BioMed Research International</i> , 2015, 2015, 1-10.	1.9	70
34	Gold nano-urchin integrated label-free amperometric aptasensing human blood clotting factor IX: A prognosticative approach for "Royal disease". <i>Biosensors and Bioelectronics</i> , 2019, 131, 128-135.	10.1	70
35	Eco-friendly synthesis of <i>Solanum trilobatum</i> extract-capped silver nanoparticles is compatible with good antimicrobial activities. <i>Journal of Molecular Structure</i> , 2018, 1160, 80-91.	3.6	69
36	Substrate-gate coupling in ZnO-FET biosensor for cardiac troponin I detection. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 1142-1154.	7.8	63

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37	Monitoring Biomolecular Interactions on a Digital Versatile Disk: A BioDVD Platform Technology. <i>ACS Nano</i> , 2008, 2, 1885-1895.	14.6	62
38	Titanium Dioxide Nanoparticle-Based Interdigitated Electrodes: A Novel Current to Voltage DNA Biosensor Recognizes <i>E. coli</i> O157:H7. <i>PLoS ONE</i> , 2015, 10, e0139766.	2.5	60
39	Human vault-associated non-coding RNAs bind to mitoxantrone, a chemotherapeutic compound. <i>Nucleic Acids Research</i> , 2005, 33, 4874-4881.	14.5	59
40	Low Temperature Annealed Zinc Oxide Nanostructured Thin Film-Based Transducers: Characterization for Sensing Applications. <i>PLoS ONE</i> , 2015, 10, e0132755.	2.5	59
41	Gold interdigitated triple-microelectrodes for label-free prognosticative aptasensing of prostate cancer biomarker in serum. <i>Biosensors and Bioelectronics</i> , 2019, 136, 118-127.	10.1	57
42	A potent anti-coagulant RNA aptamer inhibits blood coagulation by specifically blocking the extrinsic clotting pathway. <i>Thrombosis and Haemostasis</i> , 2006, 95, 767-771.	3.4	56
43	Selective phytochemicals targeting pancreatic stellate cells as new anti-fibrotic agents for chronic pancreatitis and pancreatic cancer. <i>Acta Pharmaceutica Sinica B</i> , 2020, 10, 399-413.	12.0	56
44	Expression of Noncoding Vault RNA in Human Malignant Cells and Its Importance in Mitoxantrone Resistance. <i>Molecular Cancer Research</i> , 2010, 8, 1536-1546.	3.4	55
45	Biopolymers Regulate Silver Nanoparticle under Microwave Irradiation for Effective Antibacterial and Antibiofilm Activities. <i>PLoS ONE</i> , 2016, 11, e0157612.	2.5	55
46	Phyto-Mediated Photo Catalysed Green Synthesis of Silver Nanoparticles Using <i>Durio Zibethinus</i> Seed Extract: Antimicrobial and Cytotoxic Activity and Photocatalytic Applications. <i>Molecules</i> , 2018, 23, 3311.	3.8	55
47	Influence of Nanometric Holes on the Sensitivity of a Waveguide-Mode Sensor: Label-Free Nanosensor for the Analysis of RNA Aptamer~Ligand Interactions. <i>Analytical Chemistry</i> , 2008, 80, 6602-6609.	6.5	53
48	Gold nanorod embedded novel 3D graphene nanocomposite for selective bio-capture in rapid detection of <i>Mycobacterium tuberculosis</i> . <i>Biosensors and Bioelectronics</i> , 2018, 116, 116-122.	10.1	53
49	Human papilloma virus DNA-biomarker analysis for cervical cancer: Signal enhancement by gold nanoparticle-coupled tetravalent streptavidin-biotin strategy. <i>International Journal of Biological Macromolecules</i> , 2019, 134, 354-360.	7.5	51
50	Observations of Immuno-Gold Conjugates on Influenza Viruses Using Waveguide-Mode Sensors. <i>PLoS ONE</i> , 2013, 8, e69121.	2.5	50
51	Highly sensitive <i>Escherichia coli</i> shear horizontal surface acoustic wave biosensor with silicon dioxide nanostructures. <i>Biosensors and Bioelectronics</i> , 2017, 93, 146-154.	10.1	49
52	Aptasensing nucleocapsid protein on nanodiamond assembled gold interdigitated electrodes for impedimetric SARS-CoV-2 infectious disease assessment. <i>Biosensors and Bioelectronics</i> , 2022, 197, 113735.	10.1	49
53	A Point-of-Care Immunosensor for Human Chorionic Gonadotropin in Clinical Urine Samples Using a Cuneated Polysilicon Nanogap Lab-on-Chip. <i>PLoS ONE</i> , 2015, 10, e0137891.	2.5	48
54	A Sensitive Multilayered Structure Suitable for Biosensing on the BioDVD Platform. <i>Analytical Chemistry</i> , 2009, 81, 4963-4970.	6.5	47

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55	Detection of colored nanomaterials using evanescent field-based waveguide sensors. Optics Express, 2010, 18, 15732.	3.4	46
56	Simultaneous voltammetric determination of vanillin and guaiacol in food products on defect free graphene nanoflakes modified glassy carbon electrode. Mikrochimica Acta, 2017, 184, 2131-2140.	5.0	46
57	Palladium nanoparticle-decorated reduced graphene oxide sheets synthesized using Ficus carica fruit extract: A catalyst for Suzuki cross-coupling reactions. PLoS ONE, 2018, 13, e0193281.	2.5	46
58	Gold-nanourchin seeded single-walled carbon nanotube on voltammetry sensor for diagnosing neurodegenerative Parkinson's disease. Analytica Chimica Acta, 2020, 1094, 142-150.	5.4	46
59	Waveguide-Mode Sensors as Aptasensors. Sensors, 2012, 12, 2136-2151.	3.8	44
60	Snake-venom-derived Factor IX-binding protein specifically blocks the β -carboxyglutamic acid-rich-domain-mediated membrane binding of human Factors IX and X. Biochemical Journal, 2007, 405, 351-357.	3.7	43
61	Evaluation of Anti-A/Udorn/307/1972 Antibody Specificity to Influenza A/H3N2 Viruses Using an Evanescent-Field Coupled Waveguide-Mode Sensor. PLoS ONE, 2013, 8, e81396.	2.5	43
62	Microbial Enzymes and Their Applications in Industries and Medicine 2014. BioMed Research International, 2015, 2015, 1-3.	1.9	43
63	Nanogapped impedimetric immunosensor for the detection of 16 kDa heat shock protein against Mycobacterium tuberculosis. Mikrochimica Acta, 2016, 183, 2697-2703.	5.0	43
64	Multidimensional (0D-3D) nanostructures for lung cancer biomarker analysis: Comprehensive assessment on current diagnostics. Biosensors and Bioelectronics, 2019, 141, 111434.	10.1	43
65	Potentials in synthesizing nanostructured silver particles. Microsystem Technologies, 2017, 23, 4345-4357.	2.0	42
66	Current advances and future visions on bioelectronic immunosensing for prostate-specific antigen. Biosensors and Bioelectronics, 2017, 98, 267-284.	10.1	42
67	Title is missing!. World Journal of Microbiology and Biotechnology, 2003, 19, 681-689.	3.6	41
68	Lipase-Secreting <i>Bacillus</i> Species in an Oil-Contaminated Habitat: Promising Strains to Alleviate Oil Pollution. BioMed Research International, 2015, 2015, 1-9.	1.9	41
69	Assorted micro-scale interdigitated aluminium electrode fabrication for insensitive electrolyte evaluation: zeolite nanoparticle-mediated micro- to nano-scaled electrodes. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	41
70	Microbial Enzymes and Their Applications in Industries and Medicine 2016. BioMed Research International, 2017, 2017, 1-3.	1.9	40
71	Conditions optimized for the preparation of single-stranded DNA (ssDNA) employing lambda exonuclease digestion in generating DNA aptamer. World Journal of Microbiology and Biotechnology, 2011, 27, 1167-1173.	3.6	39
72	Surface functionalization chemistries on highly sensitive silica-based sensor chips. Analyst, The, 2012, 137, 3520.	3.5	39

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73	A new nano-worm structure from gold-nanoparticle mediated random curving of zinc oxide nanorods. <i>Biosensors and Bioelectronics</i> , 2016, 78, 14-22.	10.1	39
74	Polymer Conjugated Gold Nanoparticles in Biomedical Applications. <i>Current Medicinal Chemistry</i> , 2018, 25, 1433-1445.	2.4	39
75	Crystal structure of glutamine receptor protein from <i>Sulfolobus tokodaii</i> strain 7 in complex with its effector L-glutamine: implications of effector binding in molecular association and DNA binding. <i>Nucleic Acids Research</i> , 2008, 36, 4808-4820.	14.5	37
76	Dynamic Change of Neural Cell Adhesion Molecule Polysialylation on Human Neuroblastoma (IMR-32) and Rat Pheochromocytoma (PC-12) Cells during Growth and Differentiation. <i>Journal of Biological Chemistry</i> , 2002, 277, 28200-28211.	3.4	36
77	An RNA Aptamer That Discriminates Bovine Factor IX from Human Factor IX. <i>Journal of Biochemistry</i> , 2006, 140, 667-676.	1.7	36
78	Identification of Host-Immune Response Protein Candidates in the Sera of Human Oral Squamous Cell Carcinoma Patients. <i>PLoS ONE</i> , 2014, 9, e109012.	2.5	35
79	Sensing strategies for influenza surveillance. <i>Biosensors and Bioelectronics</i> , 2014, 61, 357-369.	10.1	35
80	Salt-adapted moulds and yeasts: Potentials in industrial and environmental biotechnology. <i>Process Biochemistry</i> , 2018, 69, 33-44.	3.7	35
81	Neu5Ac1±2,6Gal and Neu5Ac1±2,3Gal receptor specificities on influenza viruses determined by a waveguide-mode sensor. <i>Acta Biomaterialia</i> , 2013, 9, 5080-5087.	8.3	34
82	Characterization of Gold-Sputtered Zinc Oxide Nanorodsâ€”a Potential Hybrid Material. <i>Nanoscale Research Letters</i> , 2016, 11, 31.	5.7	34
83	Amperometry detection of nitrite in food samples using tetrasulfonated copper phthalocyanine modified glassy carbon electrode. <i>Sensors and Actuators B: Chemical</i> , 2018, 272, 151-159.	7.8	34
84	Diagnosing human blood clotting deficiency. <i>International Journal of Biological Macromolecules</i> , 2018, 116, 765-773.	7.5	34
85	<p>Glucose oxidase complexed gold-graphene nanocomposite on a dielectric surface for glucose detection: a strategy for gestational diabetes mellitus</p>. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 7851-7860.	6.7	34
86	Nanostructured aluminosilicate from fly ash: Potential approach in waste utilization for industrial and medical applications. <i>Journal of Cleaner Production</i> , 2020, 253, 119923.	9.3	34
87	Silver nanoparticle in biosensor and bioimaging: Clinical perspectives. <i>Biotechnology and Applied Biochemistry</i> , 2020, , .	3.1	34
88	Microbial Enzymes and Their Applications in Industries and Medicine. <i>BioMed Research International</i> , 2013, 2013, 1-2.	1.9	33
89	Gold nanoparticle mediated method for spatially resolved deposition of DNA on nano-gapped interdigitated electrodes, and its application to the detection of the human Papillomavirus. <i>Mikrochimica Acta</i> , 2016, 183, 3119-3126.	5.0	33
90	Detection of influenza viruses by a waveguide-mode sensor. <i>Analytical Methods</i> , 2010, 2, 1880.	2.7	32

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91	Thickness Dependent Nanostructural, Morphological, Optical and Impedometric Analyses of Zinc Oxide-Gold Hybrids: Nanoparticle to Thin Film. PLoS ONE, 2015, 10, e0144964.	2.5	32
92	Aptamer-based impedimetric determination of the human blood clotting factor IX in serum using an interdigitated electrode modified with a ZnO nanolayer. Mikrochimica Acta, 2017, 184, 117-125.	5.0	32
93	Cellulose acetate-MoS ₂ nanopetal hybrid: A highly sensitive and selective electrochemical aptasensor of Troponin I for the early diagnosis of Acute Myocardial Infarction. Journal of the Taiwan Institute of Chemical Engineers, 2021, 118, 245-253.	5.3	32
94	High-performance integrated field-effect transistor-based sensors. Analytica Chimica Acta, 2016, 917, 1-18.	5.4	31
95	Complementation of ELISA and an Interdigitated Electrode Surface in Gold Nanoparticle Functionalization for Effective Detection of Human Blood Clotting Defects. Nanoscale Research Letters, 2019, 14, 222.	5.7	31
96	Synthesis of gold nanoparticles using <i>Platycodon grandiflorum</i> extract and its antipathogenic activity under optimal conditions. Nanomaterials and Nanotechnology, 2020, 10, 184798042096169.	3.0	31
97	Production and characterization of silica nanoparticles from fly ash: conversion of agro-waste into resource. Preparative Biochemistry and Biotechnology, 2021, 51, 86-95.	1.9	31
98	Graphene oxide-gold nanoparticle-aptamer complexed probe for detecting amyloid beta oligomer by ELISA-based immunoassay. Journal of Immunological Methods, 2021, 489, 112942.	1.4	31
99	Fabrication of interdigitated high-performance zinc oxide nanowire modified electrodes for glucose sensing. Analytica Chimica Acta, 2016, 925, 70-81.	5.4	30
100	Potential blood clotting factors and anticoagulants. Biomedicine and Pharmacotherapy, 2016, 84, 356-365.	5.6	30
101	A direct detection of human papillomavirus 16 genomic DNA using gold nanoprobe. International Journal of Biological Macromolecules, 2017, 94, 571-575.	7.5	30
102	Crystal structure of the MarR family regulatory protein, ST1710, from <i>Sulfolobus tokodaii</i> strain 7. Journal of Structural Biology, 2008, 161, 9-17.	2.8	29
103	DNA extraction on bio-chip: history and preeminence over conventional and solid-phase extraction methods. Applied Microbiology and Biotechnology, 2017, 101, 8077-8088.	3.6	29
104	Mediator-free simultaneous determination of acetaminophen and caffeine using a glassy carbon electrode modified with a nanotubular clay. Mikrochimica Acta, 2017, 184, 4485-4494.	5.0	29
105	Gold Nanoparticle-Mediated High-Performance Enzyme-Linked Immunosorbent Assay for Detection of Tuberculosis ESAT-6 Protein. Micro and Nanosystems, 2017, 8, 92-98.	0.6	29
106	Gold Nanorod Integrated Electrochemical Sensing for Hyperglycaemia on Interdigitated Electrode. BioMed Research International, 2019, 2019, 1-7.	1.9	29
107	Cellulose nanocrystals from bleached rice straw pulp: acidic deep eutectic solvent versus sulphuric acid hydrolyses. Cellulose, 2021, 28, 6183.	4.9	29
108	A DNA based visual and colorimetric aggregation assay for the early growth factor receptor (EGFR) mutation by using unmodified gold nanoparticles. Mikrochimica Acta, 2019, 186, 546.	5.0	28

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109	Graphitic carbon nitride/graphene nanoflakes hybrid system for electrochemical sensing of DNA bases in meat samples. <i>Scientific Reports</i> , 2020, 10, 12860.	3.3	28
110	Long Noncoding RNA UCA1 in Gastrointestinal Cancers: Molecular Regulatory Roles and Patterns, Mechanisms, and Interactions. <i>Journal of Oncology</i> , 2021, 2021, 1-15.	1.3	28
111	Voltammetric determination of human papillomavirus 16 DNA by using interdigitated electrodes modified with titanium dioxide nanoparticles. <i>Mikrochimica Acta</i> , 2019, 186, 336.	5.0	27
112	Current state of green reduction strategies: Solution-processed reduced graphene oxide for healthcare biodetection. <i>Materials Science and Engineering C</i> , 2019, 96, 904-914.	7.3	27
113	Laser-scribed graphene nanofiber decorated with oil palm lignin capped silver nanoparticles: a green biosensor. <i>Scientific Reports</i> , 2021, 11, 5475.	3.3	27
114	Variations in Spontaneous Assembly and Disassembly of Molecules on Unmodified Gold Nanoparticles. <i>Nanoscale Research Letters</i> , 2016, 11, 399.	5.7	26
115	Progression in sensing cardiac troponin biomarker charge transductions on semiconducting nanomaterials. <i>Analytica Chimica Acta</i> , 2016, 935, 30-43.	5.4	26
116	Target DNA detection of human papilloma virus-16 E7 gene by capture-target-reporter sandwich on interdigitated electrode sensor. <i>International Journal of Biological Macromolecules</i> , 2019, 141, 564-569.	7.5	26
117	Voltammetric determination of caffeic acid by using a glassy carbon electrode modified with a chitosan-protected nanohybrid composed of carbon black and reduced graphene oxide. <i>Mikrochimica Acta</i> , 2019, 186, 54.	5.0	26
118	Immunosensing prostate-specific antigen: Faradaic vs non-Faradaic electrochemical impedance spectroscopy analysis on interdigitated microelectrode device. <i>International Journal of Biological Macromolecules</i> , 2020, 162, 1924-1936.	7.5	26
119	Green Synthesis and Characterization of Silver Nanoparticles Using Spondias mombin Extract and Their Antimicrobial Activity against Biofilm-Producing Bacteria. <i>Molecules</i> , 2021, 26, 2681.	3.8	26
120	Polysilicon nanogap lab-on-chip facilitates multiplex analyses with single analyte. <i>Biosensors and Bioelectronics</i> , 2016, 84, 44-52.	10.1	25
121	Field-Effect Transistor-Integration with TiO ₂ Nanoparticles for Sensing of Cardiac Troponin I Biomarker. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 5283-5291.	0.9	25
122	Human Papillomavirus E6 biosensing: Current progression on early detection strategies for cervical Cancer. <i>International Journal of Biological Macromolecules</i> , 2019, 126, 877-890.	7.5	25
123	Electroanalysis on an Interdigitated Electrode for High-Affinity Cardiac Troponin I Biomarker Detection by Aptamer-Gold Conjugates. <i>ACS Omega</i> , 2020, 5, 25899-25905.	3.5	25
124	Prospects of Ligand-Induced Aptamers. <i>Critical Reviews in Analytical Chemistry</i> , 2008, 38, 34-47.	3.5	24
125	Photovoltaic and antimicrobial potentials of electrodeposited copper nanoparticle. <i>Biochemical Engineering Journal</i> , 2019, 142, 97-104.	3.6	24
126	Title is missing!. <i>World Journal of Microbiology and Biotechnology</i> , 2002, 18, 449-458.	3.6	23

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127	Evaluation of nucleic acid duplex formation on gold over layers in biosensor fabricated using Czochralski-grown single-crystal silicon substrate. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 751-758.	3.7	23
128	Engineered nanostructures to carry the biological ligands. <i>MATEC Web of Conferences</i> , 2018, 150, 06002.	0.2	23
129	<p>Aptamer-Antibody Complementation On Multiwalled Carbon Nanotube-Gold Transduced Dielectrode Surfaces To Detect Pandemic Swine Influenza Virus<p>. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 8469-8481.	6.7	23
130	Improved immunoassay for Insulin-like Growth Factor 1 detection by aminated silica nanoparticle in ELISA. <i>Process Biochemistry</i> , 2020, 91, 282-287.	3.7	23
131	Ultrasensitive and Highly Selective Graphene-Based Field-Effect Transistor Biosensor for Anti-Diuretic Hormone Detection. <i>Sensors</i> , 2020, 20, 2642.	3.8	23
132	Nanodetection of Head and Neck Cancer on Titanium Oxide Sensing Surface. <i>Nanoscale Research Letters</i> , 2020, 15, 33.	5.7	22
133	High-performance interactive analysis of split aptamer and HIV-1 Tat on multiwall carbon nanotube-modified field-effect transistor. <i>International Journal of Biological Macromolecules</i> , 2019, 125, 414-422.	7.5	21
134	Quantification of cortisol for the medical diagnosis of multiple pregnancy-related diseases. <i>3 Biotech</i> , 2020, 10, 35.	2.2	21
135	Detection of microRNA-335-5p on an Interdigitated Electrode Surface for Determination of the Severity of Abdominal Aortic Aneurysms. <i>Nanoscale Research Letters</i> , 2020, 15, 105.	5.7	21
136	Selection of RNA-aptamer against human influenza B virus. <i>Nucleic Acids Symposium Series</i> , 2005, 49, 85-86.	0.3	20
137	Toward Biological Diagnosis System Based on Digital Versatile Disc Technology. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 4003-4006.	1.5	20
138	Analysis of Compounds That Interfere with Herpes Simplex Virusâ€™Host Receptor Interactions Using Surface Plasmon Resonance. <i>Analytical Chemistry</i> , 2013, 85, 10455-10462.	6.5	20
139	Signal enhancement in ELISA: Biotin-streptavidin technology against gold nanoparticles. <i>Journal of Taibah University Medical Sciences</i> , 2016, 11, 432-438.	0.9	20
140	Novel synthesis of silicon carbide nanotubes by microwave heating of blended silicon dioxide and multi-walled carbon nanotubes: The effect of the heating temperature. <i>Ceramics International</i> , 2016, 42, 17642-17649.	4.8	20
141	HIV-1 Tat biosensor: Current development and trends for early detection strategies. <i>Biosensors and Bioelectronics</i> , 2016, 78, 358-366.	10.1	20
142	Cellulose nanoparticles encapsulated cow urine for effective inhibition of pathogens. <i>Powder Technology</i> , 2018, 328, 140-147.	4.2	20
143	Fabrication of gold nanorodâ€™zinc oxide nanocomposite on gap-fingered integrated interdigitated aluminum electrodes and their response to electrolytes. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	20
144	Aptamer-antibody dual probes on single-walled carbon nanotube bridged dielectrode: Comparative analysis on human blood clotting factor. <i>International Journal of Biological Macromolecules</i> , 2020, 151, 1133-1138.	7.5	20

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145	State-of-the-Art on Functional Titanium Dioxide-Integrated Nano-Hybrids in Electrical Biosensors. <i>Critical Reviews in Analytical Chemistry</i> , 2022, 52, 637-648.	3.5	20
146	Highly sensitive and selective acute myocardial infarction detection using aptamer- α -chitosan-MoS ₂ nanoflower and screen-printed electrodes. <i>Biotechnology and Applied Biochemistry</i> , 2020, , .	3.1	20
147	Comparative Analysis on Dielectric Gold and Aluminium Triangular Junctions: Impact of Ionic Strength and Background Electrolyte by pH Variations. <i>Scientific Reports</i> , 2020, 10, 6783.	3.3	20
148	Crystal structure of an archaeal specific DNA-binding protein (Ape10b2) from <i>Aeropyrum pernix</i> K1. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 71, 1156-1162.	2.6	19
149	Cell-targeting aptamers act as intracellular delivery vehicles. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 6955-6969.	3.6	19
150	Red Spectral Shift in Sensitive Colorimetric Detection of Tuberculosis by ESAT-6 Antigen-Antibody Complex: a New Strategy with Gold Nanoparticle. <i>Nanoscale Research Letters</i> , 2018, 13, 331.	5.7	19
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