

Subash C B Gopinath

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365 papers	6,832 citations	43 h-index	66 g-index
429 ext. papers	8,341 ext. citations	4.7 avg, IF	6.62 L-index

#	Paper	IF	Citations
365	Aptamers as a replacement for antibodies in enzyme-linked immunosorbent assay. <i>Biosensors and Bioelectronics</i> , 2015 , 64, 392-403	11.8	361
364	Colorimetric detection of controlled assembly and disassembly of aptamers on unmodified gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2014 , 51, 115-23	11.8	182
363	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	4.9	153
362	Assays for aptamer-based platforms. <i>Biosensors and Bioelectronics</i> , 2012 , 34, 1-11	11.8	149
361	Diagnostics on acute myocardial infarction: Cardiac troponin biomarkers. <i>Biosensors and Bioelectronics</i> , 2015 , 70, 209-20	11.8	126
360	Graphene-based electrochemical biosensors for monitoring noncommunicable disease biomarkers. <i>Biosensors and Bioelectronics</i> , 2019 , 130, 276-292	11.8	116
359	Bacterial detection: from microscope to smartphone. <i>Biosensors and Bioelectronics</i> , 2014 , 60, 332-42	11.8	113
358	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, 2863-70	7.5	97
357	An efficient RNA aptamer against human influenza B virus hemagglutinin. <i>Journal of Biochemistry</i> , 2006 , 139, 837-46	3.1	94
356	Single-stranded DNA (ssDNA) production in DNA aptamer generation. <i>Analyst, The</i> , 2012 , 137, 1307-15	5	91
355	Current aspects in immunosensors. <i>Biosensors and Bioelectronics</i> , 2014 , 57, 292-302	11.8	87
354	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	86
353	Feasibility of graphene in biomedical applications. <i>Biomedicine and Pharmacotherapy</i> , 2017 , 94, 354-361	7.5	83
352	Extracellular enzymatic activity profiles in fungi isolated from oil-rich environments. <i>Mycoscience</i> , 2005 , 46, 119-126	1.2	82
351	Biotechnological Processes in Microbial Amylase Production. <i>BioMed Research International</i> , 2017 , 2017, 1272193	3	80
350	Aptamer that binds to the gD protein of herpes simplex virus 1 and efficiently inhibits viral entry. <i>Journal of Virology</i> , 2012 , 86, 6732-44	6.6	76
349	Synthesis and characterization of cotton fiber-based nanocellulose. <i>International Journal of Biological Macromolecules</i> , 2018 , 109, 832-836	7.9	76

348	Label-free methods of reporting biomolecular interactions by optical biosensors. <i>Analyst, The</i> , 2013 , 138, 3576-92	5	75
347	Aptamer-based 'point-of-care testing'. <i>Biotechnology Advances</i> , 2016 , 34, 198-208	17.8	71
346	Aptamers that bind to the hemagglutinin of the recent pandemic influenza virus H1N1 and efficiently inhibit agglutination. <i>Acta Biomaterialia</i> , 2013 , 9, 8932-41	10.8	71
345	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	3.8	71
344	Generation of anti-influenza aptamers using the systematic evolution of ligands by exponential enrichment for sensing applications. <i>Langmuir</i> , 2013 , 29, 15107-15	4	68
343	'Spotted Nanoflowers': Gold-seeded Zinc Oxide Nanohybrid for Selective Bio-capture. <i>Scientific Reports</i> , 2015 , 5, 12231	4.9	68
342	Strategies to characterize fungal lipases for applications in medicine and dairy industry. <i>BioMed Research International</i> , 2013 , 2013, 154549	3	68
341	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	11.8	66
340	Biosensing applications of surface plasmon resonance-based Biacore technology. <i>Sensors and Actuators B: Chemical</i> , 2010 , 150, 722-733	8.5	66
339	Current and future envision on developing biosensors aided by 2D molybdenum disulfide (MoS) productions. <i>Biosensors and Bioelectronics</i> , 2019 , 132, 248-264	11.8	62
338	An angular fluidic channel for prism-free surface-plasmon-assisted fluorescence capturing. <i>Nature Communications</i> , 2013 , 4, 2855	17.4	62
337	Optimization of extracellular keratinase production by poultry farm isolate <i>Scopulariopsis brevicaulis</i> . <i>Bioresource Technology</i> , 2007 , 98, 1298-303	11	59
336	Biotin-Streptavidin Competition Mediates Sensitive Detection of Biomolecules in Enzyme Linked Immunosorbent Assay. <i>PLoS ONE</i> , 2016 , 11, e0151153	3.7	56
335	Biotechnological Aspects and Perspective of Microbial Keratinase Production. <i>BioMed Research International</i> , 2015 , 2015, 140726	3	54
334	Monitoring biomolecular interactions on a digital versatile disk: a BioDVD platform technology. <i>ACS Nano</i> , 2008 , 2, 1885-95	16.7	54
333	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	11.8	52
332	Human vault-associated non-coding RNAs bind to mitoxantrone, a chemotherapeutic compound. <i>Nucleic Acids Research</i> , 2005 , 33, 4874-81	20.1	51
331	Low Temperature Annealed Zinc Oxide Nanostructured Thin Film-Based Transducers: Characterization for Sensing Applications. <i>PLoS ONE</i> , 2015 , 10, e0132755	3.7	50

330	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	7	48
329	Observations of immuno-gold conjugates on influenza viruses using waveguide-mode sensors. <i>PLoS ONE</i> , 2013 , 8, e69121	3.7	47
328	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, 6602-9	7.8	47
327	Substrate-gate coupling in ZnO-FET biosensor for cardiac troponin I detection. <i>Sensors and Actuators B: Chemical</i> , 2017 , 242, 1142-1154	8.5	46
326	Biopolymers Regulate Silver Nanoparticle under Microwave Irradiation for Effective Antibacterial and Antibiofilm Activities. <i>PLoS ONE</i> , 2016 , 11, e0157612	3.7	46
325	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	5.8	45
324	Eco-friendly synthesis of Solanum trilobatum extract-capped silver nanoparticles is compatible with good antimicrobial activities. <i>Journal of Molecular Structure</i> , 2018 , 1160, 80-91	3.4	45
323	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	3.4	45
322	Titanium Dioxide Nanoparticle-Based Interdigitated Electrodes: A Novel Current to Voltage DNA Biosensor Recognizes E. coli O157:H7. <i>PLoS ONE</i> , 2015 , 10, e0139766	3.7	42
321	Expression of noncoding vault RNA in human malignant cells and its importance in mitoxantrone resistance. <i>Molecular Cancer Research</i> , 2010 , 8, 1536-46	6.6	41
320	Gold nanorod embedded novel 3D graphene nanocomposite for selective bio-capture in rapid detection of Mycobacterium tuberculosis. <i>Biosensors and Bioelectronics</i> , 2018 , 116, 116-122	11.8	41
319	Waveguide-mode sensors as aptasensors. <i>Sensors</i> , 2012 , 12, 2136-51	3.8	39
318	Detection of colored nanomaterials using evanescent field-based waveguide sensors. <i>Optics Express</i> , 2010 , 18, 15732-40	3.3	39
317	Snake-venom-derived Factor IX-binding protein specifically blocks the gamma-carboxyglutamic acid-rich-domain-mediated membrane binding of human Factors IX and X. <i>Biochemical Journal</i> , 2007 , 405, 351-7	3.8	39
316	Gold interdigitated triple-microelectrodes for label-free prognosticative aptasensing of prostate cancer biomarker in serum. <i>Biosensors and Bioelectronics</i> , 2019 , 136, 118-127	11.8	37
315	Highly sensitive Escherichia coli shear horizontal surface acoustic wave biosensor with silicon dioxide nanostructures. <i>Biosensors and Bioelectronics</i> , 2017 , 93, 146-154	11.8	37
314	Surface functionalization chemistries on highly sensitive silica-based sensor chips. <i>Analyst, The</i> , 2012 , 137, 3520-7	5	37
313	A sensitive multilayered structure suitable for biosensing on the BioDVD platform. <i>Analytical Chemistry</i> , 2009 , 81, 4963-70	7.8	37

312	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	3.7	36
311	Evaluation of anti-A/Udorn/307/1972 antibody specificity to influenza A/H3N2 viruses using an evanescent-field coupled waveguide-mode sensor. <i>PLoS ONE</i> , 2013 , 8, e81396	3.7	35
310	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, 28200-11	5.4	35
309	Multidimensional (0D-3D) nanostructures for lung cancer biomarker analysis: Comprehensive assessment on current diagnostics. <i>Biosensors and Bioelectronics</i> , 2019 , 141, 111434	11.8	33
308	Nanogapped impedimetric immunosensor for the detection of 16 kDa heat shock protein against Mycobacterium tuberculosis. <i>Mikrochimica Acta</i> , 2016 , 183, 2697-2703	5.8	33
307	Assorted micro-scale interdigitated aluminium electrode fabrication for insensitive electrolyte evaluation: zeolite nanoparticle-mediated micro- to nano-scaled electrodes. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	33
306	Crystal structure of glutamine receptor protein from Sulfolobus tokodaii 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, 4808-20	20.1	33
305	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	7.9	32
304	A new nano-worm structure from gold-nanoparticle mediated random curving of zinc oxide nanorods. <i>Biosensors and Bioelectronics</i> , 2016 , 78, 14-22	11.8	32
303	Polymer Conjugated Gold Nanoparticles in Biomedical Applications. <i>Current Medicinal Chemistry</i> , 2018 , 25, 1433-1445	4.3	32
302	Purification of lipase from Geotrichum candidum: conditions optimized for enzyme production using BoxBehnken design. <i>World Journal of Microbiology and Biotechnology</i> , 2003 , 19, 681-689	4.4	32
301	Current advances and future visions on bioelectronic immunosensing for prostate-specific antigen. <i>Biosensors and Bioelectronics</i> , 2017 , 98, 267-284	11.8	31
300	Phyto-Mediated Photo Catalysed Green Synthesis of Silver Nanoparticles Using Durio Zibethinus Seed Extract: Antimicrobial and Cytotoxic Activity and Photocatalytic Applications. <i>Molecules</i> , 2018 , 23,	4.8	31
299	Simultaneous voltammetric determination of vanillin and guaiacol in food products on defect free graphene nanoflakes modified glassy carbon electrode. <i>Mikrochimica Acta</i> , 2017 , 184, 2131-2140	5.8	30
298	An RNA aptamer that discriminates bovine factor IX from human factor IX. <i>Journal of Biochemistry</i> , 2006 , 140, 667-76	3.1	30
297	Potentials in synthesizing nanostructured silver particles. <i>Microsystem Technologies</i> , 2017 , 23, 4345-4357	1.7	29
296	Identification of host-immune response protein candidates in the sera of human oral squamous cell carcinoma patients. <i>PLoS ONE</i> , 2014 , 9, e109012	3.7	29
295	Conditions optimized for the preparation of single-stranded DNA (ssDNA) employing lambda exonuclease digestion in generating DNA aptamer. <i>World Journal of Microbiology and Biotechnology</i> , 2011 , 27, 1167-1173	4.4	28

294	Characterization of Gold-Sputtered Zinc Oxide Nanorods-a Potential Hybrid Material. <i>Nanoscale Research Letters</i> , 2016 , 11, 31	5	27
293	Sensing strategies for influenza surveillance. <i>Biosensors and Bioelectronics</i> , 2014 , 61, 357-69	11.8	27
292	Aptamer-based impedimetric determination of the human blood clotting factor IX in serum using an interdigitated electrode modified with a ZnO nanolayer. <i>Mikrochimica Acta</i> , 2017 , 184, 117-125	5.8	27
291	Microbial Enzymes and Their Applications in Industries and Medicine. <i>BioMed Research International</i> , 2013 , 2013, 1-2	3	27
290	Palladium nanoparticle-decorated reduced graphene oxide sheets synthesized using Ficus carica fruit extract: A catalyst for Suzuki cross-coupling reactions. <i>PLoS ONE</i> , 2018 , 13, e0193281	3.7	26
289	Gold Nanoparticle-Mediated High-Performance Enzyme-Linked Immunosorbent Assay for Detection of Tuberculosis ESAT-6 Protein. <i>Micro and Nanosystems</i> , 2017 , 8, 92-98	0.6	26
288	Crystal structure of the MarR family regulatory protein, ST1710, from <i>Sulfolobus tokodaii</i> strain 7. <i>Journal of Structural Biology</i> , 2008 , 161, 9-17	3.4	26
287	Gold-nanourchin seeded single-walled carbon nanotube on voltammetry sensor for diagnosing neurodegenerative Parkinson's disease. <i>Analytica Chimica Acta</i> , 2020 , 1094, 142-150	6.6	26
286	Thickness Dependent Nanostructural, Morphological, Optical and Impedometric Analyses of Zinc Oxide-Gold Hybrids: Nanoparticle to Thin Film. <i>PLoS ONE</i> , 2015 , 10, e0144964	3.7	25
285	Detection of influenza viruses by a waveguide-mode sensor. <i>Analytical Methods</i> , 2010 , 2, 1880	3.2	25
284	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	15.5	25
283	Progression in sensing cardiac troponin biomarker charge transductions on semiconducting nanomaterials. <i>Analytica Chimica Acta</i> , 2016 , 935, 30-43	6.6	24
282	High-performance integrated field-effect transistor-based sensors. <i>Analytica Chimica Acta</i> , 2016 , 917, 1-18	6.6	24
281	Gold Nanorod Integrated Electrochemical Sensing for Hyperglycaemia on Interdigitated Electrode. <i>BioMed Research International</i> , 2019 , 2019, 9726967	3	24
280	Neu5Ac2,6Gal and Neu5Ac2,3Gal receptor specificities on influenza viruses determined by a waveguide-mode sensor. <i>Acta Biomaterialia</i> , 2013 , 9, 5080-7	10.8	24
279	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	5.8	24
278	Glucose oxidase complexed gold-graphene nanocomposite on a dielectric surface for glucose detection: a strategy for gestational diabetes mellitus. <i>International Journal of Nanomedicine</i> , 2019 , 14, 7851-7860	7.3	23
277	A direct detection of human papillomavirus 16 genomic DNA using gold nanoprobe. <i>International Journal of Biological Macromolecules</i> , 2017 , 94, 571-575	7.9	23

276	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	8.5	23
275	Diagnosing human blood clotting deficiency. <i>International Journal of Biological Macromolecules</i> , 2018 , 116, 765-773	7.9	23
274	Complementation of ELISA and an Interdigitated Electrode Surface in Gold Nanoparticle Functionalization for Effective Detection of Human Blood Clotting Defects. <i>Nanoscale Research Letters</i> , 2019 , 14, 222	5	22
273	Salt-adapted moulds and yeasts: Potentials in industrial and environmental biotechnology. <i>Process Biochemistry</i> , 2018 , 69, 33-44	4.8	22
272	Mediator-free simultaneous determination of acetaminophen and caffeine using a glassy carbon electrode modified with a nanotubular clay. <i>Mikrochimica Acta</i> , 2017 , 184, 4485-4494	5.8	22
271	Lipase-Secreting Bacillus Species in an Oil-Contaminated Habitat: Promising Strains to Alleviate Oil Pollution. <i>BioMed Research International</i> , 2015 , 2015, 820575	3	22
270	Purification of lipase from <i>Cunninghamella verticillata</i> and optimization of enzyme activity using response surface methodology. <i>World Journal of Microbiology and Biotechnology</i> , 2002 , 18, 449-458	4.4	22
269	Variations in Spontaneous Assembly and Disassembly of Molecules on Unmodified Gold Nanoparticles. <i>Nanoscale Research Letters</i> , 2016 , 11, 399	5	22
268	Engineered nanostructures to carry the biological ligands. <i>MATEC Web of Conferences</i> , 2018 , 150, 06002	0.3	22
267	Nanostructured aluminosilicate from fly ash: Potential approach in waste utilization for industrial and medical applications. <i>Journal of Cleaner Production</i> , 2020 , 253, 119923	10.3	21
266	Fabrication of interdigitated high-performance zinc oxide nanowire modified electrodes for glucose sensing. <i>Analytica Chimica Acta</i> , 2016 , 925, 70-81	6.6	21
265	Potential blood clotting factors and anticoagulants. <i>Biomedicine and Pharmacotherapy</i> , 2016 , 84, 356-365	5.5	21
264	Polysilicon nanogap lab-on-chip facilitates multiplex analyses with single analyte. <i>Biosensors and Bioelectronics</i> , 2016 , 84, 44-52	11.8	20
263	Prospects of Ligand-Induced Aptamers. <i>Critical Reviews in Analytical Chemistry</i> , 2008 , 38, 34-47	5.2	20
262	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	7.9	19
261	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, 1156-62	4.2	19
260	Selection of RNA-aptamer against human influenza B virus. <i>Nucleic Acids Symposium Series</i> , 2005 , 85-6		19
259	Voltammetric determination of human papillomavirus 16 DNA by using interdigitated electrodes modified with titanium dioxide nanoparticles. <i>Mikrochimica Acta</i> , 2019 , 186, 336	5.8	18

- 258 Evaluation of nucleic acid duplex formation on gold over layers in biosensor fabricated using Czochralski-grown single-crystal silicon substrate. *Analytical and Bioanalytical Chemistry*, **2010**, 398, 751-844 18
- 257 Toward Biological Diagnosis System Based on Digital Versatile Disc Technology. *Japanese Journal of Applied Physics*, **2007**, 46, 4003-4006 1.4 18
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- 255 Current state of green reduction strategies: Solution-processed reduced graphene oxide for healthcare biodetection. *Materials Science and Engineering C*, **2019**, 96, 904-914 8.3 18
- 254 Amperometric determination of nitrite using natural fibers as template for titanium dioxide nanotubes with immobilized hemin as electron transfer mediator. *Mikrochimica Acta*, **2018**, 185, 194 5.8 17
- 253 Novel synthesis of silicon carbide nanotubes by microwave heating of blended silicon dioxide and multi-walled carbon nanotubes: The effect of the heating temperature. *Ceramics International*, **2016**, 42, 17642-17649 5.1 17
- 252 Analysis of compounds that interfere with herpes simplex virus-host receptor interactions using surface plasmon resonance. *Analytical Chemistry*, **2013**, 85, 10455-62 7.8 17
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- 250 Photovoltaic and antimicrobial potentials of electrodeposited copper nanoparticle. *Biochemical Engineering Journal*, **2019**, 142, 97-104 4.2 16
- 249 Identification of circulating biomarkers in sera of Plasmodium knowlesi-infected malaria patients--comparison against Plasmodium vivax infection. *BMC Infectious Diseases*, **2015**, 15, 49 4 15
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- 247 A pH stimuli thiol modified mesoporous silica nanoparticles: Doxorubicin carrier for cancer therapy. *Journal of the Taiwan Institute of Chemical Engineers*, **2018**, 87, 264-271 5.3 15
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239	Aluminosilicate Nanocomposites from Incinerated Chinese Holy Joss Fly Ash: A Potential Nanocarrier for Drug Cargos. <i>Scientific Reports</i> , 2020 , 10, 3351	4.9	14
238	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	1.3	14
237	HIV-1 Tat biosensor: Current development and trends for early detection strategies. <i>Biosensors and Bioelectronics</i> , 2016 , 78, 358-366	11.8	14
236	Aptamer-Antibody Complementation On Multiwalled Carbon Nanotube-Gold Transduced Dielectrode Surfaces To Detect Pandemic Swine Influenza Virus. <i>International Journal of Nanomedicine</i> , 2019 , 14, 8469-8481	7.3	14
235	Turning oil palm empty fruit bunch waste into substrate for optimal lipase secretion on solid state fermentation by <i>Trichoderma</i> strains. <i>Process Biochemistry</i> , 2017 , 63, 35-41	4.8	14
234	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	7.9	14
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232	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	3.9	14
231	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	14
230	A potent anti-coagulant RNA aptamer inhibits blood coagulation by specifically blocking the extrinsic clotting pathway. <i>Thrombosis and Haemostasis</i> , 2006 , 95, 767-71	7	14
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227	Deep eutectic solvents-halophilic cellulase system: An efficient route for in situ saccharification of lignocellulose. <i>Process Biochemistry</i> , 2019 , 81, 99-103	4.8	13
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225	Biomolecular discrimination analyses by surface plasmon resonance. <i>Analyst, The</i> , 2014 , 139, 2678-82	5	13
224	Enhanced antibacterial effect by antibiotic loaded starch nanoparticlePeer review under responsibility of University of Bahrain.View all notes. <i>Journal of the Association of Arab Universities for Basic and Applied Sciences</i> , 2017 , 24, 136-140		13
223	Signal changes for dye-complexed biomolecular interactions on waveguide-sensor chips. <i>Sensors and Actuators B: Chemical</i> , 2011 , 155, 239-244	8.5	13

222	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	13
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218	Nanodetection of Head and Neck Cancer on Titanium Oxide Sensing Surface. <i>Nanoscale Research Letters</i> , 2020 , 15, 33	5	12
217	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	11.8	12
216	Improved immunoassay for Insulin-like Growth Factor 1 detection by aminated silica nanoparticle in ELISA. <i>Process Biochemistry</i> , 2020 , 91, 282-287	4.8	12
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88	Effect of annealing temperature on structural, morphological and electrical properties of nanoparticles TiO ₂ thin films by sol-gel method 2016 ,		2
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65	Fabrication and electrical characterization of graphene oxide as transducing channel for biosensor application 2015 ,		1
64	Transparent mask design and fabrication of interdigitated electrodes 2015 ,		1
63	Monitoring biological interactions using perforated evanescent-field-coupled waveguide-mode nanobiosensors. <i>Nucleic Acids Symposium Series</i> , 2009 , 93-4		1
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45	Zinc oxide interdigitated electrode for biosensor application 2016 ,		1
44	Gate dielectric scaling in MOSFETs device 2016 ,		1
43	Recognition of Bacterial DNA on SAW-Based Biosensors 2019 , 117-146		1

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41	Coordination of Nanoconjugation with an Antigen/Antibody for Efficient Detection of Gynecological Tumors. <i>Journal of Analytical Methods in Chemistry</i> , 2020 , 2020, 6528572	2	1
40	Multiwalled carbon-aptamer conjugates for dielectric detection of matrix metalloproteinase-9. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	1
39	Fabrication and characterization of aluminium interdigitated electrode hybrid with ZnO for cardiac troponin T biomarker detection 2018 ,		1
38	Performance of Biodegradable Soy-based Polymer and Nanocomposite with Reduced Moisture Absorptivity. <i>Micro and Nanosystems</i> , 2018 , 10, 40-46	0.6	1
37	Nanosensing colon cancer biomarker on zeolite-modified gap-fingered dielectrodes. <i>Biotechnology and Applied Biochemistry</i> , 2021 ,	2.8	1
36	Matrix Metalloproteinases in Chemoresistance: Regulatory Roles, Molecular Interactions, and Potential Inhibitors.. <i>Journal of Oncology</i> , 2022 , 2022, 3249766	4.5	1
35	Silica nanoparticle assists determining liver cancer gene sequence on interdigitated electrode surface. <i>Biotechnology and Applied Biochemistry</i> , 2021 , 68, 683-689	2.8	0
34	An Overview of Unique Metal Oxide Nanostructures for Biosensor Applications. <i>Advanced Structured Materials</i> , 2019 , 51-69	0.6	0
33	Diagnosing Perioperative Cardiovascular Risks in Noncardiac Surgery Patients. <i>Journal of Analytical Methods in Chemistry</i> , 2019 , 2019, 6097375	2	0
32	Cellulose nanocrystal production from bleached rice straw pulp by combined alkaline and acidic deep eutectic solvents treatment: optimization by response surface methodology. <i>Biomass Conversion and Biorefinery</i> ,1	2.3	0
31	Green synthesized strontium oxide nanoparticles by Elodea canadensis extract and their antibacterial activity. <i>Journal of Nanostructure in Chemistry</i> ,1	7.6	0
30	Electroimmunodetection of cardiac C-reactive protein for determining myocardial Injury. <i>Biotechnology and Applied Biochemistry</i> , 2021 , 68, 272-278	2.8	0
29	Gold-nanourchin complexed silicon dioxide-probe on gap-fingered interdigitated electrode surface for Parkinson's Disease determination by current-volt measurement. <i>Nanomaterials and Nanotechnology</i> , 2021 , 11, 184798042098735	2.9	0
28	Thyroglobulin determination on silane-antibody functionalized interdigitated dielectrode surface to diagnose thyroid tumor. <i>Biotechnology and Applied Biochemistry</i> , 2021 ,	2.8	0
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25	Study on characterization of bio-oil derived from sugarcane bagasse (Saccharum barberi) for application as biofuel. <i>Clean Energy</i> , 2022 , 6, 1062-1069	4.7	0

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