

# Subash C B Gopinath

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Nanotechnology assisted biomarker analysis to rehabilitate acute ischemic stroke patients by early detection. <i>Process Biochemistry</i> , <b>2022</b> , 114, 28-35	4.8	
364	Aptasensing nucleocapsid protein on nanodiamond assembled gold interdigitated electrodes for impedimetric SARS-CoV-2 infectious disease assessment. <i>Biosensors and Bioelectronics</i> , <b>2022</b> , 197, 113735	11.8	12
363	Immunosensing the rheumatoid arthritis biomarker through bifunctional aldehyde-amine linkers on an iron oxide nanoparticle seeded voltammetry sensor. <i>Nanomaterials and Nanotechnology</i> , <b>2022</b> , 12, 184798042210851	2.9	2
362	Volatile Organic Compounds as Potential Biomarkers for Noninvasive Disease Detection by Nanosensors: A Comprehensive Review.. <i>Critical Reviews in Analytical Chemistry</i> , <b>2022</b> , 1-12	5.2	3
361	Study on characterization of bio-oil derived from sugarcane bagasse ( <i>Saccharum barberi</i> ) for application as biofuel. <i>Clean Energy</i> , <b>2022</b> , 6, 1062-1069	4.7	0
360	Molecularly imprinted polymer enhances affinity and stability over conventional aptasensor for blood clotting biomarker detection on regimented carbon nanohorn and gold nanourchin hybrid layers. <i>Sensors and Actuators B: Chemical</i> , <b>2022</b> , 363, 131842	8.5	0
359	Carbon Material Hybrid Construction on an Aptasensor for Monitoring Surgical Tumors.. <i>Journal of Analytical Methods in Chemistry</i> , <b>2022</b> , 2022, 9740784	2	0
358	Matrix Metalloproteinases in Chemoresistance: Regulatory Roles, Molecular Interactions, and Potential Inhibitors.. <i>Journal of Oncology</i> , <b>2022</b> , 2022, 3249766	4.5	1
357	Nanodiamond conjugated SARS-CoV-2 spike protein: electrochemical impedance immunosensing on a gold microelectrode.. <i>Mikrochimica Acta</i> , <b>2022</b> , 189, 226	5.8	2
356	Hemin-Modified Halloysite Nanotube as Electrocatalyst for the Enhanced Electrochemical Determination of Nitrite. <i>Journal of the Electrochemical Society</i> , <b>2022</b> , 169, 057528	3.9	0
355	Current-Volt Biosensing Cystatin C on Carbon Nanowired Interdigitated Electrode Surface: A Clinical Marker Analysis for Bulged Aorta. <i>Journal of Analytical Methods in Chemistry</i> , <b>2022</b> , 2022, 1-7	2	
354	DNA-RNA complementation on silicon wafer for thyroid cancer determination. <i>Biotechnology and Applied Biochemistry</i> , <b>2021</b> , 68, 554-559	2.8	
353	Silica nanoparticle assists determining liver cancer gene sequence on interdigitated electrode surface. <i>Biotechnology and Applied Biochemistry</i> , <b>2021</b> , 68, 683-689	2.8	0
352	Immunodetection of urinary C-terminal telopeptide fragment of type II collagen: An osteoarthritis biomarker analysis. <i>Biotechnology and Applied Biochemistry</i> , <b>2021</b> , 68, 726-731	2.8	2
351	SARS-CoV-2 spike protein: Site-specific breakpoints for the development of COVID-19 vaccines. <i>Journal of King Saud University - Science</i> , <b>2021</b> , 33, 101648	3.6	4
350	In silico structural analysis of truncated 2'Fluoro-RNA aptamer: Elucidating EGF-1 and EGF-2 binding domains on factor IX protein. <i>Process Biochemistry</i> , <b>2021</b> , 111, 124-131	4.8	1
349	MiR-133a-3p Overexpression-induced Elevation of Cisplatin-mediated Chemosensitivity to Non-Small Cell Lung Cancer by Targeting Replication Factor C3. <i>Process Biochemistry</i> , <b>2021</b> , 111, 249-249	4.8	

348	1,1'-Carbonyldiimidazole-copper nanoflower enhanced collapsible laser scribed graphene engraved microgap capacitive aptasensor for the detection of milk allergen. <i>Scientific Reports</i> , <b>2021</b> , 11, 20825	4.9	3
347	Aptamer-17 $\beta$ -estradiol-antibody sandwich ELISA for determination of gynecological endocrine function. <i>Biotechnology and Applied Biochemistry</i> , <b>2021</b> , 68, 881-888	2.8	5
346	Sensitive identification of prostate-specific antigen by iron oxide nanoparticle antibody conjugates on the gap-finger electrode surface. <i>Biotechnology and Applied Biochemistry</i> , <b>2021</b> , 68, 896-901	2.8	1
345	Laser-scribed graphene nanofiber decorated with oil palm lignin capped silver nanoparticles: a green biosensor. <i>Scientific Reports</i> , <b>2021</b> , 11, 5475	4.9	7
344	Polymer-tethered metal oxide sensing surface for abdominal aortic aneurysm biomarker quantification by dual antibodies. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2021</b> , 120, 43-48 <sup>5:3</sup>		
343	Alzheimer's Disease Determination by a Dual Probe on Gold Nanourchins and Nanohorn Hybrids. <i>International Journal of Nanomedicine</i> , <b>2021</b> , 16, 2311-2322	7.3	6
342	Microwave-assisted solvent-free extraction of essential oil from anti-phytopathogenic potential for fruit post-harvesting. <i>3 Biotech</i> , <b>2021</b> , 11, 166	2.8	3
341	Organic-Inorganic Hybrid Nanoflower Production and Analytical Utilization: Fundamental to Cutting-Edge Technologies. <i>Critical Reviews in Analytical Chemistry</i> , <b>2021</b> , 1-23	5.2	3
340	Surface engineered iron oxide nanoparticles as efficient materials for antibiofilm application. <i>Biotechnology and Applied Biochemistry</i> , <b>2021</b> ,	2.8	1
339	Molecularly imprinted polymer amalgamation on narrow-gapped Archimedean-spiral interdigitated electrodes: resistance to electrolyte fouling in acidic medium. <i>Mikrochimica Acta</i> , <b>2021</b> , 188, 144	5.8	5
338	Nano-silica embedded polydimethylsiloxane on interdigitated sensor as adhesive polymer for detecting lung cancer mutation. <i>Biotechnology and Applied Biochemistry</i> , <b>2021</b> ,	2.8	2
337	Sensitive silica-alumina modified capacitive non-Faradaic glucose sensor for gestational diabetes. <i>Biotechnology and Applied Biochemistry</i> , <b>2021</b> ,	2.8	1
336	Production and characterization of graphene from carbonaceous rice straw by cost-effect extraction. <i>3 Biotech</i> , <b>2021</b> , 11, 205	2.8	3
335	Longitudinal Zeolite-Iron Oxide Nanocomposite Deposited Capacitance Biosensor for Interleukin-3 $\gamma$ Sepsis Detection. <i>Nanoscale Research Letters</i> , <b>2021</b> , 16, 68	5	3
334	Nanodiagnostic Attainments and Clinical Perspectives on C-Reactive Protein: Cardiovascular Disease Risks Assessment. <i>Current Medicinal Chemistry</i> , <b>2021</b> , 28, 986-1002	4.3	5
333	Production and characterization of titanium oxide nanoparticle using extract of macrophytic alga. <i>Applied Physics A: Materials Science and Processing</i> , <b>2021</b> , 127, 1	2.6	1
332	Single-walled carbon nanotube-gold urchin nanohybrid for identifying gastric cancer on dimicroelectrodes junction. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2021</b> , 121, 108-114	5.3	4
331	Long Noncoding RNA in Gastrointestinal Cancers: Molecular Regulatory Roles and Patterns, Mechanisms, and Interactions. <i>Journal of Oncology</i> , <b>2021</b> , 2021, 5519720	4.5	11

330	Cellulose nanocrystals from bleached rice straw pulp: acidic deep eutectic solvent versus sulphuric acid hydrolyses. <i>Cellulose</i> , <b>2021</b> , 28, 6183	5.5	6
329	An iron oxide nanoworm hybrid on an interdigitated microelectrode silica surface to detect abdominal aortic aneurysms. <i>Mikrochimica Acta</i> , <b>2021</b> , 188, 185	5.8	1
328	Molybdenum disulphide/cellulose acetate nanofiber composite on screen printed electrodes for detecting cardiac troponin by electrical impedance spectroscopy. <i>Cellulose</i> , <b>2021</b> , 28, 5761	5.5	6
327	Green Synthesis and Characterization of Silver Nanoparticles Using Extract and Their Antimicrobial Activity against Biofilm-Producing Bacteria. <i>Molecules</i> , <b>2021</b> , 26,	4.8	10
326	Zeolite-iron oxide nanocomposite from fly ash formed a 'clubbell' structure: integration of cardiac biocapture macromolecules in serum on microelectrodes. <i>Mikrochimica Acta</i> , <b>2021</b> , 188, 187	5.8	2
325	Infection-Mediated Clinical Biomarkers for a COVID-19 Electrical Biosensing Platform. <i>Sensors</i> , <b>2021</b> , 21,	3.8	2
324	Surface charge transduction enhancement on nano-silica and - Alumina integrated planar electrode for hybrid DNA determination. <i>Materials Chemistry and Physics</i> , <b>2021</b> , 265, 124486	4.4	3
323	Silica and graphene mediate arsenic detection in mature rice grain by a newly patterned current-volt aptasensor. <i>Scientific Reports</i> , <b>2021</b> , 11, 14688	4.9	2
322	Impedimetric cardiac biomarker determination in serum mediated by epoxy and hydroxyl of reduced graphene oxide on gold array microelectrodes. <i>Mikrochimica Acta</i> , <b>2021</b> , 188, 257	5.8	1
321	Electroimmunodetection of cardiac C-reactive protein for determining myocardial Injury. <i>Biotechnology and Applied Biochemistry</i> , <b>2021</b> , 68, 272-278	2.8	0
320	Gold-silane complexed antibody immobilization on polystyrene ELISA surface for enhanced determination of matrix Metalloproteinase-9. <i>Process Biochemistry</i> , <b>2021</b> , 100, 231-236	4.8	8
319	Production and characterization of silica nanoparticles from fly ash: conversion of agro-waste into resource. <i>Preparative Biochemistry and Biotechnology</i> , <b>2021</b> , 51, 86-95	2.4	10
318	Antihyperlipidemic potential of diosmin in Swiss Albino mice with high-fat diet induced hyperlipidemia. <i>Saudi Journal of Biological Sciences</i> , <b>2021</b> , 28, 109-115	4	2
317	Graphene oxide-gold nanoparticle-aptamer complexed probe for detecting amyloid beta oligomer by ELISA-based immunoassay. <i>Journal of Immunological Methods</i> , <b>2021</b> , 489, 112942	2.5	9
316	Nanoparticle synthetic methods: strength and limitations <b>2021</b> , 31-43		2
315	Introduction to nanoparticles and analytical devices <b>2021</b> , 1-29		3
314	Biomolecular assembly on interdigitated electrode nanosensor for selective detection of insulin-like growth factor-1. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , <b>2021</b> , 49, 30-37	6.1	3
313	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> , <b>2021</b> , 11, 184798042098735	2.9	0

312	Feasibility study on microwave welding of thermoplastic using multiwalled carbon nanotubes as susceptor. <i>Nanomaterials and Nanotechnology</i> , <b>2021</b> , 11, 184798042110029	2.9	3
311	Multiwalled carbon-aptamer conjugates for dielectric detection of matrix metalloproteinase-9. <i>Applied Physics A: Materials Science and Processing</i> , <b>2021</b> , 127, 1	2.6	1
310	Cellulose acetate-MoS <sub>2</sub> nanopetal hybrid: A highly sensitive and selective electrochemical aptasensor of Troponin I for the early diagnosis of Acute Myocardial Infarction. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2021</b> , 118, 245-253	5.3	12
309	Glycosylated biomarker sensors: advancements in prostate cancer diagnosis. <i>Chemical Communications</i> , <b>2021</b> , 57, 9640-9655	5.8	2
308	Graphene Oxide-Gold Star Construct on Triangular Electrodes for Alzheimer's Disease Identification. <i>Journal of Analytical Methods in Chemistry</i> , <b>2021</b> , 2021, 6661799	2	2
307	Thyroglobulin determination on silane-antibody functionalized interdigitated dielectrode surface to diagnose thyroid tumor. <i>Biotechnology and Applied Biochemistry</i> , <b>2021</b> ,	2.8	0
306	Distinguishing normal and aggregated alpha-synuclein interaction on gold nanorod incorporated zinc oxide nanocomposite by electrochemical technique. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 171, 217-224	7.9	5
305	Human Exfoliated Deciduous Teeth Stem Cells: Features and Therapeutic Effects on Neurogenerative and Hepatobiliary-pancreatic Diseases. <i>Current Stem Cell Research and Therapy</i> , <b>2021</b> , 16, 563-576	3.6	2
304	MicroRNA of N-region from SARS-CoV-2: Potential sensing components for biosensor development. <i>Biotechnology and Applied Biochemistry</i> , <b>2021</b> ,	2.8	2
303	Nanosensing colon cancer biomarker on zeolite-modified gap-fingered dielectrodes. <i>Biotechnology and Applied Biochemistry</i> , <b>2021</b> ,	2.8	1
302	Nanostructure-mediated glucose oxidase biofunctionalization for monitoring gestational diabetes. <i>Process Biochemistry</i> , <b>2021</b> , 110, 19-25	4.8	0
301	Nanoparticles in electrochemical bioanalytical analysis <b>2021</b> , 83-112		2
300	Characterization and Antibacterial Response of Silver Nanoparticles Biosynthesized Using an Ethanolic Extract of <i>Coccinia indica</i> Leaves. <i>Crystals</i> , <b>2021</b> , 11, 97	2.3	6
299	Diagnosing metabolic diseases by nanoparticle immobilization <b>2021</b> , 211-222		
298	Silica/antibody-conjugated microcomb electrode sensor for cardiac biomarker analysis. <i>Applied Physics A: Materials Science and Processing</i> , <b>2021</b> , 127, 1	2.6	0
297	Novel Approaches in Fabrication and Integration of Nanowire for Micro/Nano Systems. <i>Critical Reviews in Analytical Chemistry</i> , <b>2021</b> , 1-17	5.2	
296	Transistor-Based Biomolecule Sensors: Recent Technological Advancements and Future Prospects. <i>Critical Reviews in Analytical Chemistry</i> , <b>2021</b> , 1-22	5.2	
295	Potential Risks Assessment of Trihalomethanes in Drinking Water Supply. <i>Journal of Water Chemistry and Technology</i> , <b>2021</b> , 43, 468-474	0.4	

294	A Zeolite Nanoparticle-Modified Anionic Surface for Aptasensing Lipocalin-2 in Ulcerative Colitis by Dual-Electrodes.. <i>Journal of Biomedical Nanotechnology</i> , <b>2021</b> , 17, 2495-2504	4	0
293	Morphological Analysis of Fabricated 5.0 M Interdigitated Electrode (IDE). <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 2129, 012100	0.3	
292	Integration of Aluminium Interdigitated Electrodes with Zinc Oxide as Nanocomposite for Selectively Detect Alpha-Synuclein for Parkinson's Disease Diagnosis. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 2129, 012094	0.3	
291	Potentials of MicroRNA in Early Detection of Ovarian Cancer by Analytical Electrical Biosensors. <i>Critical Reviews in Analytical Chemistry</i> , <b>2021</b> , 1-13	5.2	2
290	Simple and Green Approach Strategy to Synthesis Graphene Using Rice Straw Ash. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 864, 012181	0.4	3
289	Highly sensitive and selective acute myocardial infarction detection using aptamer-tethered MoS nanoflower and screen-printed electrodes. <i>Biotechnology and Applied Biochemistry</i> , <b>2020</b> ,	2.8	9
288	Targeted DNA complementation on a 1,1'-carbonyldiimidazole-functionalized surface for identifying. <i>3 Biotech</i> , <b>2020</b> , 10, 227	2.8	
287	Ultrasensitive and Highly Selective Graphene-Based Field-Effect Transistor Biosensor for Anti-Diuretic Hormone Detection. <i>Sensors</i> , <b>2020</b> , 20,	3.8	7
286	MicroRNA-155 complementation on a chemically functionalized dual electrode surface for determining breast cancer. <i>3 Biotech</i> , <b>2020</b> , 10, 270	2.8	2
285	Titanium dioxide-mediated resistive nanobiosensor for E. coli O157:H7. <i>Mikrochimica Acta</i> , <b>2020</b> , 187, 235	5.8	8
284	Design and fabrication of PDMS microfluidics device for rapid and label-free DNA detection. <i>Applied Physics A: Materials Science and Processing</i> , <b>2020</b> , 126, 1	2.6	2
283	Characterization and anti-bacterial potential of iron oxide nanoparticle processed eco-friendly by plant extract. <i>Preparative Biochemistry and Biotechnology</i> , <b>2020</b> , 50, 1053-1062	2.4	6
282	Aluminosilicate Nanocomposites from Incinerated Chinese Holy Joss Fly Ash: A Potential Nanocarrier for Drug Cargos. <i>Scientific Reports</i> , <b>2020</b> , 10, 3351	4.9	14
281	Quantification of cortisol for the medical diagnosis of multiple pregnancy-related diseases. <i>3 Biotech</i> , <b>2020</b> , 10, 35	2.8	11
280	Divalent ion-induced aggregation of gold nanoparticles for voltammetry Immunosensing: comparison of transducer signals in an assay for the squamous cell carcinoma antigen. <i>Mikrochimica Acta</i> , <b>2020</b> , 187, 128	5.8	9
279	High-performance detection of an abdominal aortic aneurysm biomarker by immunosensing. <i>Biotechnology and Applied Biochemistry</i> , <b>2020</b> , 67, 383-388	2.8	5
278	Automated, high-throughput DNA extraction protocol for disposable label free, microfluidics integrating DNA biosensor for oil palm pathogen, Ganoderma boninense. <i>Process Biochemistry</i> , <b>2020</b> , 92, 447-456	4.8	6
277	Comparative Analysis on Dielectric Gold and Aluminium Triangular Junctions: Impact of Ionic Strength and Background Electrolyte by pH Variations. <i>Scientific Reports</i> , <b>2020</b> , 10, 6783	4.9	11

276	Gold Nanomaterial Hybrid on PEGylated Metal Oxide Interdigitated Mini-electrode Surface to Diagnose Prostate Cancer. <i>Nano</i> , <b>2020</b> , 15, 2050154	1.1	1
275	Detection of microRNA-335-5p on an Interdigitated Electrode Surface for Determination of the Severity of Abdominal Aortic Aneurysms. <i>Nanoscale Research Letters</i> , <b>2020</b> , 15, 105	5	13
274	Nanodetection of Head and Neck Cancer on Titanium Oxide Sensing Surface. <i>Nanoscale Research Letters</i> , <b>2020</b> , 15, 33	5	12
273	The Correlation Between Ischemic Stroke and Thrombosis by Nanoscale Biomarker Analysis. <i>Current Nanoscience</i> , <b>2020</b> , 16, 676-684	1.4	1
272	MXene Surface on Multiple Junction Triangles for Determining Osteosarcoma Cancer Biomarker by Dielectrode Microgap Sensor. <i>International Journal of Nanomedicine</i> , <b>2020</b> , 15, 10171-10181	7.3	2
271	Heart Infection Prognosis Analysis by Two-dimensional Spot Tracking Imaging. <i>Current Medical Imaging</i> , <b>2020</b> , 16, 534-544	1.2	
270	Gold starCarbon nanotube composite for analysing preeclampsia during pregnancy. <i>Applied Physics A: Materials Science and Processing</i> , <b>2020</b> , 126,	2.6	1
269	Self-assembled reduced graphene oxide nanoflakes assisted by post-sonication boosted electrical performance in gold interdigitated microelectrodes. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 577, 345-354	9.3	7
268	Immuno-probed graphene nanoplatelets on electrolyte-gated field-effect transistor for stable cortisol quantification in serum. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2020</b> , 117, 10-18	5.3	7
267	Gold-nanourchin seeded single-walled carbon nanotube on voltammetry sensor for diagnosing neurogenerative Parkinson's disease. <i>Analytica Chimica Acta</i> , <b>2020</b> , 1094, 142-150	6.6	26
266	Alkalinized extraction of silica-aluminium nanocomposite from traditional Chinese joss paper: Optical characterizations. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 243, 122621	4.4	4
265	Quantitative simultaneous determination of pentoxifylline and paracetamol in drug and biological samples at graphene nanoflakes modified electrode. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2020</b> , 107, 15-23	5.3	4
264	Improved immunoassay for Insulin-like Growth Factor 1 detection by aminated silica nanoparticle in ELISA. <i>Process Biochemistry</i> , <b>2020</b> , 91, 282-287	4.8	12
263	Nanostructured aluminosilicate from fly ash: Potential approach in waste utilization for industrial and medical applications. <i>Journal of Cleaner Production</i> , <b>2020</b> , 253, 119923	10.3	21
262	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> , <b>2020</b> , 151, 1133-1138	7.9	10
261	Selective phytochemicals targeting pancreatic stellate cells as new anti-fibrotic agents for chronic pancreatitis and pancreatic cancer. <i>Acta Pharmaceutica Sinica B</i> , <b>2020</b> , 10, 399-413	15.5	25
260	Immunosensing prostate-specific antigen: Faradaic vs non-Faradaic electrochemical impedance spectroscopy analysis on interdigitated microelectrode device. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 162, 1924-1936	7.9	14
259	Gold nanoparticle assembly and disassembly in colorimetric immunoassay to detect 17 $\beta$ -estradiol and determine gynecological disorder. <i>Process Biochemistry</i> , <b>2020</b> , 99, 21-26	4.8	1

258	State-of-the-Art on Functional Titanium Dioxide-Integrated Nano-Hybrids in Electrical Biosensors. <i>Critical Reviews in Analytical Chemistry</i> , <b>2020</b> , 1-12	5.2	9
257	Harumanis Mango: Perspectives in Disease Management and Advancement using Interdigitated Electrodes (IDE) Nano-Biosensor. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 864, 012180	0.4	2
256	Silver nanoparticle in biosensor and bioimaging: Clinical perspectives. <i>Biotechnology and Applied Biochemistry</i> , <b>2020</b> ,	2.8	9
255	Molybdenum disulfide-gold nanoparticle nanocomposite in field-effect transistor back-gate for enhanced C-reactive protein detection. <i>Mikrochimica Acta</i> , <b>2020</b> , 187, 588	5.8	8
254	Novelty Studies on Amorphous Silica Nanoparticle Production From Rice Straw Ash. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 864, 012021	0.4	2
253	Covalent conjugation of reduced graphene oxide with oligos for current-volt signal determination on leukemia. <i>Applied Physics A: Materials Science and Processing</i> , <b>2020</b> , 126, 1	2.6	2
252	Synthesis of gold nanoparticles using Platycodon grandiflorum extract and its antipathogenic activity under optimal conditions. <i>Nanomaterials and Nanotechnology</i> , <b>2020</b> , 10, 184798042096169	2.9	14
251	3D nanoporous hybrid nanoflower for enhanced non-faradaic redox-free electrochemical impedimetric biodetermination. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2020</b> , 116, 26-35	5.3	5
250	Label-free aptamer based biosensor for heavy metal detection <b>2020</b> ,		2
249	An interdigitated aptasensor to detect interleukin-6 for diagnosing rheumatoid arthritis in serum. <i>Biotechnology and Applied Biochemistry</i> , <b>2020</b> ,	2.8	1
248	Anxiety determination by antibody-conjugated nanoparticles on an interdigitated electrode sensor. <i>3 Biotech</i> , <b>2020</b> , 10, 377	2.8	1
247	Synthesis and characterization of reduced graphene oxide using the aqueous extract of. <i>3 Biotech</i> , <b>2020</b> , 10, 364	2.8	4
246	Graphitic carbon nitride/graphene nanoflakes hybrid system for electrochemical sensing of DNA bases in meat samples. <i>Scientific Reports</i> , <b>2020</b> , 10, 12860	4.9	13
245	Electroanalysis on an Interdigitated Electrode for High-Affinity Cardiac Troponin I Biomarker Detection by Aptamer-Gold Conjugates. <i>ACS Omega</i> , <b>2020</b> , 5, 25899-25905	3.9	14
244	Elastomeric polydimethylsiloxane polymer on conductive interdigitated electrode for analyzing skin hydration dynamics. <i>Applied Physics A: Materials Science and Processing</i> , <b>2020</b> , 126, 1	2.6	9
243	Electrochemical DNA Biosensor based on 30 nM Gold Nanoparticle Modified Electrode by Electroless Deposition for Human Papillomavirus (HPV) 18 E6 Region. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 864, 012167	0.4	1
242	Gold Nanoparticles Enhanced Electrochemical Impedance Sensor (EIS) for Human Papillomavirus (HPV) 16 Detection E6 region. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 864, 012165	0.4	1
241	Voltammetric DNA Biosensor for Human Papillomavirus (HPV) Strain 18 Detection. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 864, 012166	0.4	1

240	Self-assembled silver nanoparticle-DNA on a dielectrode microdevice for determination of gynecologic tumors. <i>Biomedical Microdevices</i> , <b>2020</b> , 22, 67	3.7	4
239	The effect of graphite type on the synthesis of SiC nanomaterials by microwave-assisted synthesis. <i>Applied Physics A: Materials Science and Processing</i> , <b>2020</b> , 126, 1	2.6	2
238	Gold-Nanohybrid Biosensors for Analyzing Blood Circulating Clinical Biomacromolecules: Current Trend toward Future Remote Digital Monitoring. <i>Critical Reviews in Analytical Chemistry</i> , <b>2020</b> , 1-16	5.2	4
237	Catechin adsorption on magnetic hydroxyapatite nanoparticles: A synergistic interaction with calcium ions. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 241, 122337	4.4	8
236	Coordination of Nanoconjugation with an Antigen/Antibody for Efficient Detection of Gynecological Tumors. <i>Journal of Analytical Methods in Chemistry</i> , <b>2020</b> , 2020, 6528572	2	1
235	Mycorrhiza: a natural resource assists plant growth under varied soil conditions. <i>3 Biotech</i> , <b>2020</b> , 10, 2042.8	2.8	3
234	Determination of cardiac disease biomarker by plasmonic sandwich ELISA. <i>Biotechnology and Applied Biochemistry</i> , <b>2020</b> ,	2.8	2
233	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> , <b>2019</b> , 14, 222	5	22
232	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> , <b>2019</b> , 141, 564-569	7.9	19
231	Synthesis of silicon carbide nanomaterials by microwave heating: Effect of types of carbon nanotubes. <i>Solid State Sciences</i> , <b>2019</b> , 98, 106023	3.4	8
230	Recent Advances in Identifying Biomarkers and High-Affinity Aptamers for Gynecologic Cancers Diagnosis and Therapy. <i>Journal of Analytical Methods in Chemistry</i> , <b>2019</b> , 2019, 5426974	2	6
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144	Detection of human immunodeficiency virus type 1 (HIV-1) Tat protein by aptamer-based biosensors <b>2017</b> ,		1
143	Enhanced sensitivity mediated ambipolar conduction with p-type TiO <sub>2</sub> anatase transducer for biomarker capturing. <i>Sensors and Actuators A: Physical</i> , <b>2017</b> , 259, 57-67	3.9	11
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