

Ashok Mulchandani

List of Publications by Year in descending order

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Version: 2024-02-01

357
papers

20,494
citations

8755

75
h-index

18130

120
g-index

361
all docs

361
docs citations

361
times ranked

19342
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Synthesis of pristine graphene-like behaving rGO thin film: Insights into what really matters. Carbon, 2022, 186, 437-451. | 10.3 | 13 |
| 2 | Bio-sensitized solar cells built from renewable carbon sources. Materials Today Energy, 2022, 23, 100910. | 4.7 | 7 |
| 3 | Multiplexed Anodic Stripping Voltammetry Detection of Heavy Metals in Water Using Nanocomposites Modified Screen-Printed Electrodes Integrated With a 3D-Printed Flow Cell. Frontiers in Chemistry, 2022, 10, 815805. | 3.6 | 7 |
| 4 | Graphene compared to fluorine-doped tin oxide as transparent conductor in ZnO dye-sensitized solar cells. Journal of Environmental Chemical Engineering, 2022, 10, 107551. | 6.7 | 13 |
| 5 | The evolution of metal size and partitioning throughout the wastewater treatment train. Journal of Hazardous Materials, 2021, 402, 123761. | 12.4 | 2 |
| 6 | An origami electrical biosensor for multiplexed analyte detection in body fluids. Biosensors and Bioelectronics, 2021, 171, 112721. | 10.1 | 33 |
| 7 | Development of an Interdigitated Electrode-Based Disposable Enzyme Sensor Strip for Glycated Albumin Measurement. Molecules, 2021, 26, 734. | 3.8 | 18 |
| 8 | Scalable chemical vapor deposited graphene field-effect transistors for bio/chemical assay. Applied Physics Reviews, 2021, 8, . | 11.3 | 10 |
| 9 | Nano-FET-enabled biosensors: Materials perspective and recent advances in North America. Biosensors and Bioelectronics, 2021, 176, 112941. | 10.1 | 28 |
| 10 | Label-free chemiresistor biosensor based on reduced graphene oxide and M13 bacteriophage for detection of coliforms. Analytica Chimica Acta, 2021, 1150, 338232. | 5.4 | 19 |
| 11 | Electrodeposition of ZnO nanorods on graphene: tuning the topography for application as tin oxide-free electron transport layer. Journal of Applied Electrochemistry, 2021, 51, 977-989. | 2.9 | 2 |
| 12 | Laser-etched grooves for rapid fluid delivery for a paper-based chemiresistive biosensor. Biosensors and Bioelectronics, 2021, 180, 113090. | 10.1 | 12 |
| 13 | Toward Rapid Detection of Trace Lead and Cadmium by Anodic Stripping Voltammetry in Complex Wastewater Streams. ACS ES&T Engineering, 2021, 1, 1509-1516. | 7.6 | 9 |
| 14 | Chemiresistor sensor based on ion-imprinted polymer (IIP)-functionalized rGO for Cd(II) ions in water. Sensors and Actuators B: Chemical, 2021, 346, 130474. | 7.8 | 22 |
| 15 | Current status, advances, challenges and perspectives on biosensors for COVID-19 diagnosis in resource-limited settings. Sensors and Actuators Reports, 2021, 3, 100025. | 4.4 | 24 |
| 16 | Linker-Free Magnetite-Decorated Gold Nanoparticles (Fe ₃ O ₄ -Au): Synthesis, Characterization, and Application for Electrochemical Detection of Arsenic (III). Sensors, 2021, 21, 883. | 3.8 | 19 |
| 17 | Electrochemical Impedance Spectroscopy (EIS): Principles, Construction, and Biosensing Applications. Sensors, 2021, 21, 6578. | 3.8 | 360 |
| 18 | Effect of Al ₂ O ₃ Passive Layer on Stability and Doping of MoS ₂ Field-Effect Transistor (FET) Biosensors. Biosensors, 2021, 11, 514. | 4.7 | 6 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Detection of a secreted protein biomarker for citrus Huanglongbing using a single-walled carbon nanotubes-based chemiresistive biosensor. <i>Biosensors and Bioelectronics</i> , 2020, 147, 111766. | 10.1 | 44 |
| 20 | Non-lytic M13 phage-based highly sensitive impedimetric cytosensor for detection of coliforms. <i>Biosensors and Bioelectronics</i> , 2020, 148, 111794. | 10.1 | 52 |
| 21 | Structure: Function Studies of the Cytosolic, Mo- and NAD ⁺ -Dependent Formate Dehydrogenase from <i>Cupriavidus necator</i> . <i>Inorganics</i> , 2020, 8, 41. | 2.7 | 7 |
| 22 | Bismuth Subcarbonate Decorated Reduced Graphene Oxide Nanocomposite for the Sensitive Stripping Voltammetry Analysis of Pb(II) and Cd(II) in Water. <i>Sensors</i> , 2020, 20, 6085. | 3.8 | 12 |
| 23 | Hydrogels: From Controlled Release to a New Bait Delivery for Insect Pest Management. <i>Journal of Economic Entomology</i> , 2020, 113, 2061-2068. | 1.8 | 24 |
| 24 | Non-Carbon 2D Materials-Based Field-Effect Transistor Biosensors: Recent Advances, Challenges, and Future Perspectives. <i>Sensors</i> , 2020, 20, 4811. | 3.8 | 16 |
| 25 | Asymptomatic Diagnosis of Huanglongbing Disease Using Metalloporphyrin Functionalized Single-Walled Carbon Nanotubes Sensor Arrays. <i>Frontiers in Chemistry</i> , 2020, 8, 362. | 3.6 | 5 |
| 26 | Biodegradable alginate hydrogel bait delivery system effectively controls high-density populations of Argentine ant in commercial citrus. <i>Journal of Pest Science</i> , 2020, 93, 1031-1042. | 3.7 | 21 |
| 27 | Gas Biosensor Arrays Based on Single-Stranded DNA-Functionalized Single-Walled Carbon Nanotubes for the Detection of Volatile Organic Compound Biomarkers Released by Huanglongbing Disease-Infected Citrus Trees. <i>Sensors</i> , 2019, 19, 4795. | 3.8 | 20 |
| 28 | Field effect transistor based on proton conductive metal organic framework (CuBTC). <i>Journal Physics D: Applied Physics</i> , 2019, 52, 335105. | 2.8 | 27 |
| 29 | Synthesis of Formate from CO ₂ Gas Catalyzed by an O ₂ -Tolerant NAD-Dependent Formate Dehydrogenase and Glucose Dehydrogenase. <i>Biochemistry</i> , 2019, 58, 1861-1868. | 2.5 | 36 |
| 30 | Electrochemical Biosensor for Rapid Detection of Viable Bacteria and Antibiotic Screening. <i>Journal of Analysis and Testing</i> , 2019, 3, 117-122. | 5.1 | 13 |
| 31 | MoS ₂ -Based Optoelectronic Gas Sensor with Sub-parts-per-billion Limit of NO ₂ Gas Detection. <i>ACS Nano</i> , 2019, 13, 3196-3205. | 14.6 | 349 |
| 32 | Functionalized Carbon Nanotubes for Detection of Volatile Organic Pollutant. , 2019, , . | | 2 |
| 33 | A paper-based chemiresistive biosensor employing single-walled carbon nanotubes for low-cost, point-of-care detection. <i>Biosensors and Bioelectronics</i> , 2019, 130, 367-373. | 10.1 | 54 |
| 34 | Graphene nanogap electrodes in electrical biosensing. <i>Biosensors and Bioelectronics</i> , 2019, 126, 838-844. | 10.1 | 14 |
| 35 | MoS ₂ -graphene heterostructures as efficient organic compounds sensing 2D materials. <i>Carbon</i> , 2019, 142, 504-512. | 10.3 | 41 |
| 36 | Affinity sensor for haemoglobin A1c based on single-walled carbon nanotube field-effect transistor and fructosyl amino acid binding protein. <i>Biosensors and Bioelectronics</i> , 2019, 129, 254-259. | 10.1 | 29 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Electro-oxidized Monolayer CVD Graphene Film Transducer for Ultrasensitive Impedimetric DNA Biosensor. <i>Electroanalysis</i> , 2018, 30, 1791-1800. | 2.9 | 22 |
| 38 | Development of a glucose sensor employing quick and easy modification method with mediator for altering electron acceptor preference. <i>Bioelectrochemistry</i> , 2018, 121, 185-190. | 4.6 | 47 |
| 39 | Calixarene-functionalized single-walled carbon nanotubes for sensitive detection of volatile amines. <i>Sensors and Actuators B: Chemical</i> , 2018, 268, 115-122. | 7.8 | 20 |
| 40 | Point-of-Use Nanobiosensor for Detection of Dengue Virus NS1 Antigen in Adult <i>Aedes aegypti</i> : A Potential Tool for Improved Dengue Surveillance. <i>Analytical Chemistry</i> , 2018, 90, 679-684. | 6.5 | 33 |
| 41 | Highly active spore biocatalyst by self-assembly of co-expressed anchoring scaffoldin and multimeric enzyme. <i>Biotechnology and Bioengineering</i> , 2018, 115, 557-564. | 3.3 | 18 |
| 42 | Characterisation of the heterojunction microstructure for electrodeposited vertical ZnO nanorods on CVD-graphene. <i>Materials Research Express</i> , 2018, 5, 085031. | 1.6 | 6 |
| 43 | Lectin- and Saccharide-Functionalized Nano-Chemiresistor Arrays for Detection and Identification of Pathogenic Bacteria Infection. <i>Biosensors</i> , 2018, 8, 63. | 4.7 | 9 |
| 44 | Salivary Detection of Dengue Virus NS1 Protein with a Label-Free Immunosensor for Early Dengue Diagnosis. <i>Sensors</i> , 2018, 18, 2641. | 3.8 | 23 |
| 45 | Single-walled Carbon Nanotube-Calixarene Based Chemiresistor for Volatile Organic Compounds. <i>Electroanalysis</i> , 2018, 30, 2077-2084. | 2.9 | 16 |
| 46 | Tuning Coating Thickness of Iron Tetraphenyl Porphyrin on Single Walled Carbon Nanotubes by Annealing: Effect on Benzene Sensing Performance. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700956. | 1.8 | 9 |
| 47 | A heparin-functionalized carbon nanotube-based affinity biosensor for dengue virus. <i>Biosensors and Bioelectronics</i> , 2017, 91, 811-816. | 10.1 | 82 |
| 48 | Monitoring of microbial cell viability using nanostructured electrodes modified with Graphene/Alumina nanocomposite. <i>Biosensors and Bioelectronics</i> , 2017, 91, 857-862. | 10.1 | 31 |
| 49 | Highly sensitive detection of Cr(VI) by reduced graphene oxide chemiresistor and 1,4-dithiothreitol functionalized Au nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2017, 247, 265-272. | 7.8 | 38 |
| 50 | Graphene based biosensors for healthcare. <i>Journal of Materials Research</i> , 2017, 32, 2905-2929. | 2.6 | 45 |
| 51 | Development of an alginate hydrogel to deliver aqueous bait for pest ant management. <i>Pest Management Science</i> , 2017, 73, 2028-2038. | 3.4 | 31 |
| 52 | Spore-displayed enzyme cascade with tunable stoichiometry. <i>Biotechnology Progress</i> , 2017, 33, 383-389. | 2.6 | 17 |
| 53 | Cover Image, Volume 73, Issue 10. <i>Pest Management Science</i> , 2017, 73, i-i. | 3.4 | 0 |
| 54 | Raman spectra of twisted CVD bilayer graphene. <i>Carbon</i> , 2017, 123, 302-306. | 10.3 | 50 |

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| 55 | Carbon allotropes as sensors for environmental monitoring. <i>Current Opinion in Electrochemistry</i> , 2017, 3, 106-113. | 4.8 | 48 |
| 56 | Graphene-Based Biosensors and Their Applications in Biomedical and Environmental Monitoring. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2017, , 261-290. | 0.5 | 11 |
| 57 | Efficient reduction of CO ₂ by the molybdenum-containing formate dehydrogenase from <i>Cupriavidus necator</i> (<i>Ralstonia eutropha</i>). <i>Journal of Biological Chemistry</i> , 2017, 292, 16872-16879. | 3.4 | 88 |
| 58 | Potassium Iodide-Functionalized Polyaniline Nanothin Film Chemiresistor for Ultrasensitive Ozone Gas Sensing. <i>Polymers</i> , 2017, 9, 80. | 4.5 | 7 |
| 59 | A Pathogen Secreted Protein as a Detection Marker for Citrus Huanglongbing. <i>Frontiers in Microbiology</i> , 2017, 8, 2041. | 3.5 | 40 |
| 60 | Platinum nanoparticles-single-walled carbon nanotubes hybrid based chemiresistive sensor array for myoglobin detection. <i>Materials Research Express</i> , 2016, 3, 035006. | 1.6 | 3 |
| 61 | High performance dendrimer functionalized single-walled carbon nanotubes field effect transistor biosensor for protein detection. <i>Applied Physics Letters</i> , 2016, 109, 243504. | 3.3 | 13 |
| 62 | Electrochemical properties of seamless three-dimensional carbon nanotubes-grown graphene modified with horseradish peroxidase. <i>Bioelectrochemistry</i> , 2016, 111, 57-61. | 4.6 | 16 |
| 63 | An electrochemically reduced graphene oxide chemiresistive sensor for sensitive detection of Hg ²⁺ ion in water samples. <i>Journal of Hazardous Materials</i> , 2016, 320, 226-233. | 12.4 | 65 |
| 64 | Engineering Soluble Human Paraoxonase 2 for Quorum Quenching. <i>ACS Chemical Biology</i> , 2016, 11, 3122-3131. | 3.4 | 17 |
| 65 | Thermal conductivity of graphene with defects induced by electron beam irradiation. <i>Nanoscale</i> , 2016, 8, 14608-14616. | 5.6 | 187 |
| 66 | An oligonucleotide-functionalized carbon nanotube chemiresistor for sensitive detection of mercury in saliva. <i>Analyst</i> , The, 2016, 141, 2756-2760. | 3.5 | 22 |
| 67 | Carbon nanotubes and graphene nano field-effect transistor-based biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 79, 222-232. | 11.4 | 128 |
| 68 | Carbon nanomaterial-based electrochemical biosensors for label-free sensing of environmental pollutants. <i>Chemosphere</i> , 2016, 143, 85-98. | 8.2 | 170 |
| 69 | Biofunctionalized Nanostructured Zirconia for Biomedical Application: A Smart Approach for Oral Cancer Detection. <i>Advanced Science</i> , 2015, 2, 1500048. | 11.2 | 111 |
| 70 | Graphene hybrids: synthesis strategies and applications in sensors and sensitized solar cells. <i>Frontiers in Chemistry</i> , 2015, 3, 38. | 3.6 | 67 |
| 71 | Chemiresistive sensor based on polythiophene-modified single-walled carbon nanotubes for detection of NO ₂ . <i>Modern Physics Letters B</i> , 2015, 29, 1540046. | 1.9 | 23 |
| 72 | Bioelectrochemistry of Heme Peptide at Seamless Three-Dimensional Carbon Nanotubes/Graphene Hybrid Films for Highly Sensitive Electrochemical Biosensing. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 3647-3654. | 8.0 | 39 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 73 | Label-Free Electrical Immunosensor for Highly Sensitive and Specific Detection of Microcystin-LR in Water Samples. Environmental Science & Technology, 2015, 49, 9256-9263. | 10.0 | 56 |
| 74 | A miniature chemiresistor sensor for carbon dioxide. Analytica Chimica Acta, 2015, 874, 54-58. | 5.4 | 43 |
| 75 | Conducting polyaniline nanowire electrode junction. Modern Physics Letters B, 2015, 29, 1540036. | 1.9 | 3 |
| 76 | Volatile Organic Compounds. Nanostructure Science and Technology, 2015, , 1023-1046. | 0.1 | 1 |
| 77 | Fe nanoparticle tailored poly(N-methyl pyrrole) nanowire matrix: a CHEMFET study from the perspective of discrimination among electron donating analytes. Journal Physics D: Applied Physics, 2015, 48, 195301. | 2.8 | 5 |
| 78 | Glucose sensor based on conducting polyaniline nanowire electrode junction. Modern Physics Letters B, 2015, 29, 1540045. | 1.9 | 2 |
| 79 | Methanol tolerant, high performance, noble metal free electrocatalyst developed from polyaniline and ferric chloride for the oxygen reduction reaction. RSC Advances, 2015, 5, 92648-92655. | 3.6 | 15 |
| 80 | Molecular imprinted polymer functionalized carbon nanotube sensors for detection of saccharides. Applied Physics Letters, 2015, 107, . | 3.3 | 13 |
| 81 | Electrochemically Functionalized Seamless Three-Dimensional Graphene-Carbon Nanotube Hybrid for Direct Electron Transfer of Glucose Oxidase and Bioelectrocatalysis. Langmuir, 2015, 31, 13054-13061. | 3.5 | 61 |
| 82 | Single-walled carbon nanotubes based chemiresistive genosensor for label-free detection of human rheumatic heart disease. Applied Physics Letters, 2014, 105, 213701. | 3.3 | 12 |
| 83 | Conducting polymer functionalized single-walled carbon nanotube based chemiresistive biosensor for the detection of human cardiac myoglobin. Applied Physics Letters, 2014, 105, . | 3.3 | 17 |
| 84 | Primary amine-functionalized polyaniline nanothin film sensor for detecting formaldehyde. Sensors and Actuators B: Chemical, 2014, 194, 255-259. | 7.8 | 54 |
| 85 | Nonenzymatic Glucose Sensor Based on Platinum Nanoflowers Decorated Multiwalled Carbon Nanotubesâ€Graphene Hybrid Electrode. Electroanalysis, 2014, 26, 103-108. | 2.9 | 76 |
| 86 | Simple and label-free electrochemical impedance Amelogenin gene hybridization biosensing based on reduced graphene oxide. Biosensors and Bioelectronics, 2014, 58, 145-152. | 10.1 | 76 |
| 87 | Conducting polymer coated single-walled carbon nanotube gas sensors for the detection of volatile organic compounds. Talanta, 2014, 123, 109-114. | 5.5 | 65 |
| 88 | Single-Walled Carbon Nanotubeâ€Poly(porphyrin) Hybrid for Volatile Organic Compounds Detection. Journal of Physical Chemistry C, 2014, 118, 1602-1610. | 3.1 | 51 |
| 89 | Quantitative assessment of in vivo HIV protease activity using genetically engineered QDâ€based FRET probes. Biotechnology and Bioengineering, 2014, 111, 1082-1087. | 3.3 | 12 |
| 90 | Pt nanoparticles-chemical vapor deposited graphene composite based immunosensor for the detection of human cardiac troponin I. Sensors and Actuators B: Chemical, 2014, 205, 363-370. | 7.8 | 43 |

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|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 91 | Selective Discrimination among Benzene, Toluene, and Xylene: Probing Metalloporphyrin-Functionalized Single-Walled Carbon Nanotube-Based Field Effect Transistors. <i>Journal of Physical Chemistry C</i> , 2014, 118, 24034-24041. | 3.1 | 43 |
| 92 | Poly(3-aminophenylboronic acid)-functionalized carbon nanotubes-based chemiresistive sensors for detection of sugars. <i>Analyst</i> , 2014, 139, 3077-3082. | 3.5 | 38 |
| 93 | Ultrasensitive Electrochemical Immunosensor Based on Pt Nanoparticle-Graphene Composite. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 971-983. | 2.9 | 10 |
| 94 | Bactericidal activity of elastin-like polypeptide biopolymer with polyhistidine domain and silver. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 119, 66-70. | 5.0 | 11 |
| 95 | A simple colorimetric DNA detection by target-induced hybridization chain reaction for isothermal signal amplification. <i>Analytical Biochemistry</i> , 2014, 457, 19-23. | 2.4 | 62 |
| 96 | Affinity chemiresistor sensor for sugars. <i>Talanta</i> , 2014, 128, 473-479. | 5.5 | 6 |
| 97 | Protein functionalized Pt nanoparticles-conducting polymer nanocomposite film: Characterization and immunosensor application. <i>Polymer</i> , 2014, 55, 4003-4011. | 3.8 | 16 |
| 98 | Nanorod Polyaniline Film for Highly Sensitive Chemiresistive Gas Sensing. <i>Electroanalysis</i> , 2013, 25, 1439-1445. | 2.9 | 27 |
| 99 | Poly(o-toluidine) Nanowires Based Organic Field Effect Transistors: A Study on Influence of Anionic Size of Dopants and SWNTs as a Dopant. <i>Journal of Physical Chemistry C</i> , 2013, 117, 15414-15420. | 3.1 | 3 |
| 100 | Electronic Detection of MicroRNA at Attomolar Level with High Specificity. <i>Analytical Chemistry</i> , 2013, 85, 8061-8064. | 6.5 | 98 |
| 101 | Use of Flow Cytometry for Rapid, Quantitative Detection of Poliovirus-Infected Cells via TAT Peptide-Delivered Molecular Beacons. <i>Applied and Environmental Microbiology</i> , 2013, 79, 696-700. | 3.1 | 9 |
| 102 | Platinum nanoflowers decorated three-dimensional graphene-carbon nanotubes hybrid with enhanced electrocatalytic activity. <i>Journal of Power Sources</i> , 2013, 223, 23-29. | 7.8 | 49 |
| 103 | Mediator-free microfluidics biosensor based on titania-zirconia nanocomposite for urea detection. <i>RSC Advances</i> , 2013, 3, 228-235. | 3.6 | 64 |
| 104 | Organic field-effect transistors: predictive control on performance parameters. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 495110. | 2.8 | 7 |
| 105 | Iron tetraphenyl porphyrin functionalized single wall carbon nanotubes for the detection of benzene. <i>Materials Letters</i> , 2013, 96, 38-41. | 2.6 | 22 |
| 106 | Hexavalent chromium removal mechanism using conducting polymers. <i>Journal of Hazardous Materials</i> , 2013, 252-253, 99-106. | 12.4 | 102 |
| 107 | Hybrid tin oxide-SWNT nanostructures based gas sensor. <i>Electrochimica Acta</i> , 2013, 92, 484-490. | 5.2 | 57 |
| 108 | Carbon Nanotubes-Based Label-Free Affinity Sensors for Environmental Monitoring. <i>Applied Biochemistry and Biotechnology</i> , 2013, 170, 1011-1025. | 2.9 | 21 |

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|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 109 | Graphene and carbon nanotube“graphene hybrid nanomaterials for human embryonic stem cell culture. Materials Letters, 2013, 92, 122-125. | 2.6 | 44 |
| 110 | Simultaneous degradation of organophosphate and organochlorine pesticides by Sphingobium japonicum UT26 with surface-displayed organophosphorus hydrolase. Biodegradation, 2013, 24, 295-303. | 3.0 | 33 |
| 111 | Label-free chemiresistive biosensor for mercury (II) based on single-walled carbon nanotubes and structure-switching DNA. Applied Physics Letters, 2013, 102, 13701. | 3.3 | 40 |
| 112 | A chemiresistive sensor based on conducting polymer/SWNT composite nanofibrillar matrix“effect of 100 MeV O ¹⁶ ion irradiation on gas sensing properties. Smart Materials and Structures, 2013, 22, 035004. | 3.5 | 12 |
| 113 | Detection of RNA Viruses: Current Technologies and Future Perspectives. Critical Reviews in Eukaryotic Gene Expression, 2013, 23, 125-137. | 0.9 | 22 |
| 114 | Single-Walled Carbon Nanotubes Based Chemicapacitive Sensors. Journal of Nanoscience and Nanotechnology, 2012, 12, 1517-1520. | 0.9 | 3 |
| 115 | Controlled functionalization of single-walled carbon nanotubes for enhanced ammonia sensing: a comparative study. Journal Physics D: Applied Physics, 2012, 45, 355305. | 2.8 | 33 |
| 116 | Selective recognition of xylene isomers using ZnO“SWNTs hybrid gas sensors. Analyst, The, 2012, 137, 2549. | 3.5 | 13 |
| 117 | Tuning Electrical and Optoelectronic Properties of Single Cadmium Telluride Nanoribbon. Journal of Physical Chemistry C, 2012, 116, 9202-9208. | 3.1 | 15 |
| 118 | Graphene Nanomesh As Highly Sensitive Chemiresistor Gas Sensor. Analytical Chemistry, 2012, 84, 8171-8178. | 6.5 | 226 |
| 119 | Porphyrin-Functionalized Single-Walled Carbon Nanotube Chemiresistive Sensor Arrays for VOCs. Journal of Physical Chemistry C, 2012, 116, 3845-3850. | 3.1 | 125 |
| 120 | Hybrid ZnO/SWNT Nanostructures Based Gas Sensor. Electroanalysis, 2012, 24, 1613-1620. | 2.9 | 20 |
| 121 | Bactericidal and ammonia removal activity of silver ion-exchanged zeolite. Bioresource Technology, 2012, 117, 86-91. | 9.6 | 56 |
| 122 | Application of displacement principle for detecting heavy metal ions and EDTA using microcantilevers. Sensors and Actuators B: Chemical, 2012, 161, 203-208. | 7.8 | 21 |
| 123 | Electronic-nose for detecting environmental pollutants: signal processing and analog front-end design. Analog Integrated Circuits and Signal Processing, 2012, 70, 15-32. | 1.4 | 21 |
| 124 | Single-walled carbon nanotubes chemiresistor aptasensors for small molecules: picomolar level detection of adenosine triphosphate. Chemical Communications, 2011, 47, 3793. | 4.1 | 36 |
| 125 | Phylogenetic Diversity and Metabolic Potential of Activated Sludge Microbial Communities in Full-Scale Wastewater Treatment Plants. Environmental Science & Technology, 2011, 45, 7408-7415. | 10.0 | 166 |
| 126 | A quantum-dot based protein module for in vivo monitoring of protease activity through fluorescence resonance energy transfer. Chemical Communications, 2011, 47, 5259. | 4.1 | 44 |

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| 127 | Sensitive Detection of Elemental Mercury Vapor by Gold-Nanoparticle-Decorated Carbon Nanotube Sensors. <i>Journal of Physical Chemistry C</i> , 2011, 115, 13927-13931. | 3.1 | 59 |
| 128 | Estimation of Enzyme Kinetic Parameters of Cell Surface-displayed Organophosphorus Hydrolase and Construction of a Biosensing System for Organophosphorus Compounds. <i>Analytical Sciences</i> , 2011, 27, 823-826. | 1.6 | 12 |
| 129 | Anchorage of GFP fusion on the cell surface of <i>Pseudomonas putida</i> . <i>Biodegradation</i> , 2011, 22, 51-61. | 3.0 | 8 |
| 130 | Microbial Biosensors for Organophosphate Pesticides. <i>Applied Biochemistry and Biotechnology</i> , 2011, 165, 687-699. | 2.9 | 41 |
| 131 | Single Conducting Polymer Nanowire Based Sequence-Specific, Base-Pair-Length Dependant Label-free DNA Sensor. <i>Electroanalysis</i> , 2011, 23, 371-379. | 2.9 | 38 |
| 132 | Selective and Rapid Room Temperature Detection of H_2S Using Gold Nanoparticle Chain Arrays. <i>Electroanalysis</i> , 2011, 23, 2623-2628. | 2.9 | 32 |
| 133 | Gas Sensing Mechanism of Gold Nanoparticles Decorated Single-Walled Carbon Nanotubes. <i>Electroanalysis</i> , 2011, 23, 2687-2692. | 2.9 | 43 |
| 134 | Label-free, chemiresistor immunosensor for stress biomarker cortisol in saliva. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4382-4386. | 10.1 | 94 |
| 135 | Conducting polymer nanowires-based label-free biosensors. <i>Current Opinion in Biotechnology</i> , 2011, 22, 502-508. | 6.6 | 71 |
| 136 | The production of oxygenated polycrystalline graphene by one-step ethanol-chemical vapor deposition. <i>Carbon</i> , 2011, 49, 3789-3795. | 10.3 | 35 |
| 137 | Room temperature detection of NO_2 using InSb nanowire. <i>Applied Physics Letters</i> , 2011, 99, . | 3.3 | 32 |
| 138 | ZnS nanocrystals decorated single-walled carbon nanotube based chemiresistive label-free DNA sensor. <i>Applied Physics Letters</i> , 2011, 98, 13701. | 3.3 | 26 |
| 139 | Photo-induced charge transport in ZnS nanocrystals decorated single walled carbon nanotube field-effect transistor. <i>Applied Physics Letters</i> , 2011, 99, 173110. | 3.3 | 13 |
| 140 | Systematic engineering of phytochelatin synthesis and arsenic transport for enhanced arsenic accumulation in <i>E. coli</i> . <i>Biotechnology and Bioengineering</i> , 2010, 105, 780-785. | 3.3 | 32 |
| 141 | Organophosphorus compound detection on a cell chip with yeast coexpressing hydrolase and eGFP. <i>Biotechnology Journal</i> , 2010, 5, 515-519. | 3.5 | 10 |
| 142 | Conducting polymer nanowire-based chemiresistive biosensor for the detection of bacterial spores. <i>Biosensors and Bioelectronics</i> , 2010, 25, 2309-2312. | 10.1 | 59 |
| 143 | Carbon nanotubes-based chemiresistive immunosensor for small molecules: Detection of nitroaromatic explosives. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1297-1301. | 10.1 | 76 |
| 144 | Improvement in organophosphorus hydrolase activity of cell surface-engineered yeast strain using Flo1p anchor system. <i>Biotechnology Letters</i> , 2010, 32, 655-659. | 2.2 | 25 |

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|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 145 | Electrical and Sensing Properties of Single-Walled Carbon Nanotubes Network: Effect of Alignment and Selective Breakdown. <i>Electroanalysis</i> , 2010, 22, 99-105. | 2.9 | 37 |
| 146 | Conducting polymer 1-dimensional nanostructures for FET sensors. <i>Thin Solid Films</i> , 2010, 519, 964-973. | 1.8 | 40 |
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