

# Soumyo Mukherji

## List of Publications by Year in descending order

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Version: 2024-02-01

147  
papers

8,363  
citations

94269

37  
h-index

48187

88  
g-index

149  
all docs

149  
docs citations

149  
times ranked

12705  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Strain specificity in antimicrobial activity of silver and copper nanoparticles. <i>Acta Biomaterialia</i> , 2008, 4, 707-716.  | 4.1 | 1,604     |
| 2  | Size-controlled silver nanoparticles synthesized over the range 5â€“100 nm using the same protocol and their antibacterial efficacy. <i>RSC Advances</i> , 2014, 4, 3974-3983.  | 1.7 | 1,421     |
| 3  | Immobilized silver nanoparticles enhance contact killing and show highest efficacy: elucidation of the mechanism of bactericidal action of silver. <i>Nanoscale</i> , 2013, 5, 7328.                                      | 2.8 | 409       |
| 4  | A review on advantages of implementing luminescence inhibition test ( <i>Vibrio fischeri</i> ) for acute toxicity prediction of chemicals. <i>Environment International</i> , 2006, 32, 265-268.                          | 4.8 | 360       |
| 5  | Novel U-bent fiber optic probe for localized surface plasmon resonance based biosensor. <i>Biosensors and Bioelectronics</i> , 2009, 24, 2804-2809.   | 5.3 | 259       |
| 6  | Occurrence and fate of pharmaceuticals in WWTPs in India and comparison with a similar study in the United States. <i>Chemosphere</i> , 2016, 159, 526-535.   | 4.2 | 180       |
| 7  | Potential of carbon nanomaterials for removal of heavy metals from water. <i>Desalination</i> , 2008, 232, 145-156.   | 4.0 | 172       |
| 8  | Arginine-assisted immobilization of silver nanoparticles on ZnO nanorods: an enhanced and reusable antibacterial substrate without human cell cytotoxicity. <i>Nanoscale</i> , 2015, 7, 7415-7429.                        | 2.8 | 151       |
| 9  | Dendrimers in biosensors: Concept and applications. <i>Journal of Materials Chemistry</i> , 2011, 21, 14367.  | 6.7 | 144       |
| 10 | Geochemistry of shales from the Paleoproterozoic to Neoproterozoic Vindhyan Supergroup: Implications on provenance, tectonics and paleoweathering. <i>Journal of Asian Earth Sciences</i> , 2008, 32, 34-48.              | 1.0 | 142       |
| 11 | Antimicrobial chitosanâ€“PVA hydrogel as a nanoreactor and immobilizing matrix for silver nanoparticles. <i>Applied Nanoscience (Switzerland)</i> , 2012, 2, 179-188.   | 1.6 | 141       |
| 12 | Treatment of hydrocarbon-rich wastewater using oil degrading bacteria and phototrophic microorganisms in rotating biological contactor: Effect of N:P ratio. <i>Journal of Hazardous Materials</i> , 2008, 154, 63-72.    | 6.5 | 114       |
| 13 | LSPR based optical fiber sensor with chitosan capped gold nanoparticles on BSA for trace detection of Hg (II) in water, soil and food samples. <i>Biosensors and Bioelectronics</i> , 2019, 134, 90-96.                   | 5.3 | 110       |
| 14 | Biodegradation rate of diesel range n-alkanes by bacterial cultures <i>Exiguobacterium aurantiacum</i> and <i>Burkholderia cepacia</i> . <i>International Biodeterioration and Biodegradation</i> , 2008, 61, 240-250.    | 1.9 | 104       |
| 15 | Characterization of oily sludge from a refinery and biodegradability assessment using various hydrocarbon degrading strains and reconstituted consortia. <i>Journal of Environmental Management</i> , 2015, 149, 118-125. | 3.8 | 94        |
| 16 | Mass Transfer of Polynuclear Aromatic Hydrocarbons from Complex DNAPL Mixtures. <i>Environmental Science &amp; Technology</i> , 1997, 31, 416-423.  | 4.6 | 89        |
| 17 | Plasmonic-ELISA: expanding horizons. <i>RSC Advances</i> , 2016, 6, 85440-85456.  | 1.7 | 83        |
| 18 | Biodegradation of pyrene by a <i>Pseudomonas aeruginosa</i> strain RS1 isolated from refinery sludge. <i>Bioresource Technology</i> , 2014, 166, 548-558.   | 4.8 | 77        |

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|----|---|-----|-----------|
| 19 | Biodegradation of diesel oil by an Arabian Sea sediment culture isolated from the vicinity of an oil field. <i>Bioresource Technology</i> , 2004, 95, 281-286.  | 4.8 | 73        |
| 20 | Surface hydrophobicity of petroleum hydrocarbon degrading <i>Burkholderia</i> strains and their interactions with NAPLs and surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 78, 101-108.  | 2.5 | 70        |
| 21 | The novel SARS-CoV-2 pandemic: Possible environmental transmission, detection, persistence and fate during wastewater and water treatment. <i>Science of the Total Environment</i> , 2021, 765, 142746.   | 3.9 | 70        |
| 22 | Optimal Design for U-bent Fiber-optic LSPR Sensor Probes. <i>Plasmonics</i> , 2014, 9, 251-260.   | 1.8 | 69        |
| 23 | Gold nanoparticle coated U-bend fibre optic probe for localized surface plasmon resonance based detection of explosive vapours. <i>Sensors and Actuators B: Chemical</i> , 2014, 192, 804-811.  | 4.0 | 68        |
| 24 | Defatted algal biomass as a non-conventional low-cost adsorbent: Surface characterization and methylene blue adsorption characteristics. <i>Bioresource Technology</i> , 2015, 184, 395-404.  | 4.8 | 68        |
| 25 | Practical Considerations and Challenges Involved in Surfactant Enhanced Bioremediation of Oil. <i>BioMed Research International</i> , 2013, 2013, 1-16.   | 0.9 | 66        |
| 26 | Evaluation of indigenous fresh water microalga <i>Scenedesmus obtusus</i> for feed and fuel applications: Effect of carbon dioxide, light and nutrient sources on growth and biochemical characteristics. <i>Bioresource Technology</i> , 2016, 207, 430-439. | 4.8 | 62        |
| 27 | Dendrimer as a multifunctional capping agent for metal nanoparticles for use in bioimaging, drug delivery and sensor applications. <i>Journal of Materials Chemistry B</i> , 2018, 6, 2368-2384.  | 2.9 | 62        |
| 28 | Alteration in cell surface properties of <i>Burkholderia</i> spp. during surfactant-aided biodegradation of petroleum hydrocarbons. <i>Applied Microbiology and Biotechnology</i> , 2012, 94, 193-204.  | 1.7 | 59        |
| 29 | Life cycle assessment of microalgae based biodiesel production to evaluate the impact of biomass productivity and energy source. <i>Resources, Conservation and Recycling</i> , 2017, 122, 286-294.   | 5.3 | 59        |
| 30 | Surfactant aided biodegradation of NAPLs by <i>Burkholderia multivorans</i> : Comparison between Triton X-100 and rhamnolipid JBR-515. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 102, 644-652.  | 2.5 | 58        |
| 31 | Phase Stability of Multicomponent NAPLs Containing PAHs. <i>Environmental Science &amp; Technology</i> , 1997, 31, 2540-2546.   | 4.6 | 52        |
| 32 | Diverse effect of surfactants on pyrene biodegradation by a <i>Pseudomonas</i> strain utilizing pyrene by cell surface hydrophobicity induction. <i>International Biodeterioration and Biodegradation</i> , 2016, 108, 67-75.                                 | 1.9 | 50        |
| 33 | Eco-friendly decolorization and degradation of reactive yellow 145 textile dye by <i>Pseudomonas aeruginosa</i> and <i>Thiosphaera pantotropha</i> . <i>Journal of Environmental Management</i> , 2020, 263, 110383.  | 3.8 | 50        |
| 34 | Characterization and Proinflammatory Response of Airborne Biological Particles from Wastewater Treatment Plants. <i>Environmental Science &amp; Technology</i> , 2011, 45, 3282-3287.   | 4.6 | 48        |
| 35 | Degradation of phenolics, nitrogen-heterocyclics and polynuclear aromatic hydrocarbons in a rotating biological contactor. <i>Bioresource Technology</i> , 2012, 111, 12-20.  | 4.8 | 48        |
| 36 | Removal of Chemical Oxygen Demand and Color from Simulated Textile Wastewater Using a Combination of Chemical/Physicochemical Processes. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 10063-10071.                                      | 1.8 | 48        |

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|----|---|-----|-----------|
| 37 | Biodegradation of oil in oily sludges from steel mills. <i>Bioresource Technology</i> , 2009, 100, 1700-1703.   | 4.8 | 46        |
| 38 | Bacteria functionalized gold nanoparticle matrix based fiber-optic sensor for monitoring heavy metal pollution in water. <i>Sensors and Actuators B: Chemical</i> , 2019, 281, 643-651.   | 4.0 | 40        |
| 39 | Emission of bacterial bioaerosols from a composting facility in Maharashtra, India. <i>Waste Management</i> , 2016, 53, 22-31.  | 3.7 | 39        |
| 40 | Optimization of Plasmonic U-Shaped Optical Fiber Sensor for Mercury Ions Detection Using Glucose Capped Silver Nanoparticles. <i>IEEE Sensors Journal</i> , 2019, 19, 3224-3231.  | 2.4 | 38        |
| 41 | Label free ultrasensitive optical sensor decorated with polyaniline nanofibers: Characterization and immunosensing application. <i>Sensors and Actuators B: Chemical</i> , 2017, 240, 443-450.  | 4.0 | 37        |
| 42 | Optical Fiber Sensors for Rapid Screening of COVID-19. , 2020, 5, 233-236.  |     | 37        |
| 43 | Synthesis and characterization of size- and shape-controlled silver nanoparticles. <i>Physical Sciences Reviews</i> , 2019, 4, .  | 0.8 | 36        |
| 44 | Seasonal variation in fluorescence characteristics of dissolved organic matter in wastewater and identification of proteins through HRLC-MS/MS. <i>Journal of Hazardous Materials</i> , 2021, 413, 125453.  | 6.5 | 36        |
| 45 | Synthesis, characterization and photocatalytic activity evaluation of TiO <sub>2</sub> @ ZnO nanocomposites: Elucidating effect of varying Ti:Zn molar ratio. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 565, 47-58. | 2.3 | 34        |
| 46 | A dendrimer matrix for performance enhancement of evanescent wave absorption-based fiber-optic biosensors. <i>RSC Advances</i> , 2014, 4, 15841.  | 1.7 | 33        |
| 47 | Estimation of carbon dioxide sequestration potential of microalgae grown in a batch photobioreactor. <i>Bioresource Technology</i> , 2015, 180, 370-375.  | 4.8 | 33        |
| 48 | Effect of co-contaminant phenol on performance of a laboratory-scale RBC with algal-bacterial biofilm treating petroleum hydrocarbon-rich wastewater. <i>Journal of Chemical Technology and Biotechnology</i> , 2010, 85, 851-859.                        | 1.6 | 32        |
| 49 | Evanescence Wave Optical Fiber Sensors Using Enzymatic Hydrolysis on Nanostructured Polyaniline for Detection of <sup>12</sup> -Lactam Antibiotics in Food and Environment. <i>Analytical Chemistry</i> , 2021, 93, 2299-2308.                            | 3.2 | 32        |
| 50 | Effect of an emulsifying surfactant on diesel degradation by cultures exhibiting inducible cell surface hydrophobicity. <i>Journal of Chemical Technology and Biotechnology</i> , 2007, 82, 1004-1011.  | 1.6 | 31        |
| 51 | Beta-lactam antibiotics induced bacteriolysis on LSPR sensors for assessment of antimicrobial resistance and quantification of antibiotics. <i>Sensors and Actuators B: Chemical</i> , 2020, 311, 127945.   | 4.0 | 31        |
| 52 | “Organic Canteen” A Nanomechanical Polymer Cantilever Sensor With Integrated OFET. <i>Journal of Microelectromechanical Systems</i> , 2012, 21, 294-301.  | 1.7 | 30        |
| 53 | Probing the Localized Surface Plasmon Field of a Gold Nanoparticle-Based Fibre Optic Biosensor. <i>Plasmonics</i> , 2016, 11, 753-761.  | 1.8 | 30        |
| 54 | Hand-held optical sensor using denatured antibody coated electro-active polymer for ultra-trace detection of copper in blood serum and environmental samples. <i>Biosensors and Bioelectronics</i> , 2018, 110, 38-43.                                    | 5.3 | 30        |

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|----|---|-----|-----------|
| 55 | Impact of bioremediation strategies on slurry phase treatment of aged oily sludge from a refinery. <i>Journal of Environmental Management</i> , 2019, 246, 625-635.   | 3.8 | 30        |
| 56 | Environmental contamination by heterocyclic Polynuclear aromatic hydrocarbons and their microbial degradation. <i>Bioresource Technology</i> , 2021, 341, 125860.   | 4.8 | 29        |
| 57 | Statistical optimization of thermal pretreatment conditions for enhanced biomethane production from defatted algal biomass. <i>Bioresource Technology</i> , 2014, 162, 157-165.   | 4.8 | 28        |
| 58 | Impact of background water quality on disinfection performance and silver release of immobilized silver nanoparticles: Modeling disinfection kinetics, bactericidal mechanism and aggregation behavior. <i>Chemical Engineering Journal</i> , 2019, 372, 684-696. | 6.6 | 28        |
| 59 | Toxicity assessment of organic pollutants: Reliability of bioluminescence inhibition assay and univariate QSAR models using freshly prepared <i>Vibrio fischeri</i> . <i>Toxicology in Vitro</i> , 2008, 22, 1806-1813.   | 1.1 | 27        |
| 60 | Facile synthesis of size and wavelength tunable hollow gold nanostructures for the development of a LSPR based label-free fiber-optic biosensor. <i>RSC Advances</i> , 2015, 5, 69970-69979.  | 1.7 | 27        |
| 61 | Evaluation of bioaugmentation and biostimulation effects on the treatment of refinery oily sludge using 2 <sup>n</sup> full factorial design. <i>Environmental Sciences: Processes and Impacts</i> , 2014, 16, 1889-1896.   | 1.7 | 26        |
| 62 | Dimensional analysis for modeling oxygen transfer in rotating biological contactor. <i>Bioresource Technology</i> , 2008, 99, 3721-3728.  | 4.8 | 24        |
| 63 | Comparative life cycle assessment of microalgae-mediated CO <sub>2</sub> capture in open raceway pond and airlift photobioreactor system. <i>Clean Technologies and Environmental Policy</i> , 2018, 20, 2357-2364.   | 2.1 | 24        |
| 64 | Unifac modeling of multicomponent nonaqueous phase liquids containing polycyclic aromatic hydrocarbons. <i>Environmental Toxicology and Chemistry</i> , 1999, 18, 426-429.  | 2.2 | 23        |
| 65 | Microbial uptake of diesel oil sorbed on soil and oil spill clean-up sorbents. <i>Journal of Chemical Technology and Biotechnology</i> , 2005, 80, 587-593.   | 1.6 | 23        |
| 66 | Review on Occurrence and Toxicity of Pharmaceutical Contamination in Southeast Asia. <i>Springer Transactions in Civil and Environmental Engineering</i> , 2020, , 63-91.   | 0.3 | 23        |
| 67 | Comparative mutagenicity assessment of aerosols in emissions from biofuel combustion. <i>Atmospheric Environment</i> , 2002, 36, 5627-5635.   | 1.9 | 22        |
| 68 | Batch studies with <i>Exiguobacterium aurantiacum</i> degrading structurally diverse organic compounds and its potential for treatment of biomass gasification wastewater. <i>International Biodeterioration and Biodegradation</i> , 2013, 80, 1-9.              | 1.9 | 22        |
| 69 | Role of precursors in the formation of trihalomethanes during chlorination of drinking water and wastewater effluents from a metropolitan region in western India. <i>Journal of Water Process Engineering</i> , 2021, 40, 101928.                                | 2.6 | 22        |
| 70 | Nature and prevalence of non-additive toxic effects in industrially relevant mixtures of organic chemicals. <i>Chemosphere</i> , 2009, 75, 1429-1439.   | 4.2 | 21        |
| 71 | Antimicrobial Activity of Silver and Copper Nanoparticles: Variation in Sensitivity Across Various Strains of Bacteria and Fungi. , 2012, , 225-251.  |     | 21        |
| 72 | Mass transfer effects on microbial uptake of naphthalene from complex NAPLs. <i>Biotechnology and Bioengineering</i> , 1998, 60, 750-760.   | 1.7 | 20        |

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|----|---|-----|-----------|
| 73 | Label-Free Detection of <i>Escherichia coli</i> from Mixed Bacterial Cultures Using Bacteriophage T4 on Plasmonic Fiber-Optic Sensor. <i>ACS Sensors</i> , 2021, 6, 2720-2727.  | 4.0 | 20        |
| 74 | Biosorption of diesel and lubricating oil on algal biomass. <i>3 Biotech</i> , 2012, 2, 301-310.  | 1.1 | 19        |
| 75 | Design and Fabrication of Lossy Mode Resonance Based U-Shaped Fiber Optic Refractometer Utilizing Dual Sensing Phenomenon. <i>Journal of Lightwave Technology</i> , 2016, 34, 4187-4194.  | 2.7 | 19        |
| 76 | Glucose mediated synthesis of gold nanoshells: A facile and eco-friendly approach conferring high colloidal stability. <i>RSC Advances</i> , 2014, 4, 3984-3991.  | 1.7 | 18        |
| 77 | Challenges in Detection of Antibiotics in Wastewater Matrix. <i>Energy, Environment, and Sustainability</i> , 2018, , 3-20.   | 0.6 | 17        |
| 78 | Efficacy and reusability of mixed-phase TiO <sub>2</sub> @ZnO nanocomposites for the removal of estrogenic effects of 17 $\beta$ -Estradiol and 17 $\beta$ -Ethinylestradiol from water. <i>Journal of Environmental Management</i> , 2021, 288, 112340.                                    | 3.8 | 17        |
| 79 | Treatment of aqueous effluents containing non-aqueous phase liquids in rotating biological contactor with algal bacterial biofilm. <i>Chemical Engineering Journal</i> , 2012, 200-202, 459-470.  | 6.6 | 16        |
| 80 | Disinfection of water in a batch reactor using chloridized silver surfaces. <i>Journal of Water Process Engineering</i> , 2017, 16, 41-49.  | 2.6 | 16        |
| 81 | Growth and biochemical characteristics of an indigenous freshwater microalga, <i>Scenedesmus obtusus</i> , cultivated in an airlift photobioreactor: effect of reactor hydrodynamics, light intensity, and photoperiod. <i>Bioprocess and Biosystems Engineering</i> , 2017, 40, 1057-1068. | 1.7 | 16        |
| 82 | Optimization of media composition for enhancing carbazole degradation by <i>Pseudomonas aeruginosa</i> RS1. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 2881-2891.  | 3.3 | 16        |
| 83 | Evaluation of adsorbents and eluents for application in virus concentration and adsorption-desorption isotherms for coliphages. <i>Chemical Engineering Journal</i> , 2021, 403, 126267.  | 6.6 | 16        |
| 84 | Water disinfection using fixed bed reactors packed with silver nanoparticle immobilized glass capillary tubes. <i>Science of the Total Environment</i> , 2019, 689, 991-1000.   | 3.9 | 15        |
| 85 | Detecting Ocimene in mango using mustard oil based quartz crystal microbalance sensor. <i>Sensors and Actuators B: Chemical</i> , 2019, 284, 514-524.   | 4.0 | 14        |
| 86 | Toxicity assessment of organic contaminants: Evaluation of mixture effects in model industrial mixtures using 2 <sup>n</sup> full factorial design. <i>Chemosphere</i> , 2008, 73, 1049-1055.   | 4.2 | 13        |
| 87 | Substrate interaction effects during pyrene biodegradation by <i>Pseudomonas aeruginosa</i> RS1. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 1791-1800.   | 3.3 | 13        |
| 88 | Facile Synthesis of Size-Tunable Silver Nanoparticles by Heteroepitaxial Growth Method for Efficient NIR SERS. <i>Plasmonics</i> , 2015, 10, 753-763.   | 1.8 | 12        |
| 89 | Modeling growth kinetics and carbazole degradation kinetics of a <i>Pseudomonas aeruginosa</i> strain isolated from refinery sludge and uptake considerations during growth on carbazole. <i>Science of the Total Environment</i> , 2020, 738, 140277.                                      | 3.9 | 12        |
| 90 | Characterization, phylogenetic distribution and evolutionary trajectories of diverse hydrocarbon degrading microorganisms isolated from refinery sludge. <i>3 Biotech</i> , 2018, 8, 273.   | 1.1 | 11        |

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|-----|--|-----|-----------|
| 91  | Extracellular synthesis of silver nanoparticles by <i>Thiosphaera pantotropha</i> and evaluation of their antibacterial and cytotoxic effects. <i>3 Biotech</i> , 2020, 10, 237.   | 1.1 | 11        |
| 92  | Degradation of carbazole, fluorene, dibenzothiophene and their mixture by <i>P. aeruginosa</i> RS1 in petroleum refinery wastewater. <i>Journal of Water Process Engineering</i> , 2020, 37, 101454.   | 2.6 | 11        |
| 93  | Selective Removal of Photocatalytically Active Anatase TiO <sub>2</sub> Phase from Mixed-Phase TiO <sub>2</sub> -ZnO Nanocomposites: Impact on Physicochemical Properties and Photocatalytic Activity. <i>Energy and Environmental Materials</i> , 2020, 3, 548-559. | 7.3 | 11        |
| 94  | Hybrid Pattern Recognition for Rapid Explosive Sensing With Comprehensive Analysis. <i>IEEE Sensors Journal</i> , 2021, 21, 8011-8019.   | 2.4 | 11        |
| 95  | Enhanced antibacterial activity of decahedral silver nanoparticles. <i>Journal of Nanoparticle Research</i> , 2021, 23, 1.   | 0.8 | 11        |
| 96  | Treatment of simulated biomass gasification wastewater of varying strength in a three stage rotating biological contactor. <i>Chemical Engineering Journal</i> , 2015, 259, 303-312.   | 6.6 | 10        |
| 97  | Threat Posed by Persistent Organochlorine Pesticides and their Mobility in the Environment. <i>Current Organic Chemistry</i> , 2018, 22, 954-972.  | 0.9 | 10        |
| 98  | Dendrimeric nano-glue material for localized surface plasmon resonance-based fiber-optic sensors. <i>Applied Nanoscience (Switzerland)</i> , 2012, 2, 293-297.   | 1.6 | 9         |
| 99  | Characterization of electrochemical behaviour of <i>Escherichia coli</i> MTCC 1610 in a microbial fuel cell. <i>Bioresource Technology Reports</i> , 2018, 3, 67-74.   | 1.5 | 9         |
| 100 | Growth kinetics of <i>Pseudomonas aeruginosa</i> RS1 on fluorene and dibenzothiophene, concomitant degradation kinetics and uptake mechanism. <i>3 Biotech</i> , 2021, 11, 195.  | 1.1 | 9         |
| 101 | PHOTOPLASTIC MICROCANTILEVER SENSOR PLATFORM FOR EXPLOSIVE DETECTION. <i>International Journal of Nanoscience</i> , 2011, 10, 739-743.   | 0.4 | 8         |
| 102 | Gold nanoparticles and nanostructures in optical biosensors. <i>Materials Technology</i> , 2015, 30, B167-B177.  | 1.5 | 8         |
| 103 | Effect of calcination temperature on the microstructure and electronic properties of TiO <sub>2</sub> -ZnO nanocomposites and implications on photocatalytic activity. <i>Applied Nanoscience (Switzerland)</i> , 2018, 8, 915-930.                                  | 1.6 | 8         |
| 104 | Single step, mould-free fabrication of polymer optical waveguides for localized surface plasmon resonance based sensing platform. <i>Sensors and Actuators B: Chemical</i> , 2019, 280, 243-255.   | 4.0 | 8         |
| 105 | Antiviral application of colloidal and immobilized silver nanoparticles. <i>Nanotechnology</i> , 2021, 32, 205102.   | 1.3 | 8         |
| 106 | Bacterial Degradation of High Molecular Weight Polynuclear Aromatic Hydrocarbons. <i>Environmental Science and Engineering</i> , 2012, , 189-211.  | 0.1 | 8         |
| 107 | Sorption behavior of heavy metal pollutants onto shales and correlation with shale geochemistry. <i>Environmental Geology</i> , 2005, 47, 1162-1170.   | 1.2 | 7         |
| 108 | Surface characteristics of shales and implication on metal sorption. <i>Environmental Chemistry Letters</i> , 2008, 6, 91-94.  | 8.3 | 7         |



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|-----|---|-----|-----------|
| 109 | Mental stress assessment - a comparison between HRV based and respiration based techniques. , 2015, , .   |     | 7         |
| 110 | Detection of Total Bacterial Load in Water Samples Using a Disposable Impedimetric Sensor. IEEE Sensors Journal, 2020, 20, 1712-1720.   | 2.4 | 7         |
| 111 | Natural Attenuation of Pharmaceuticals in the Aquatic Environment and Role of Phototransformation. Springer Transactions in Civil and Environmental Engineering, 2021, , 65-94.   | 0.3 | 7         |
| 112 | Response of an Algal Consortium to Diesel under Varying Culture Conditions. Applied Biochemistry and Biotechnology, 2010, 160, 719-729.   | 1.4 | 6         |
| 113 | Start-up of sequencing batch reactor with <i>Thiosphaera pantotropha</i> for treatment of high-strength nitrogenous wastewater and sludge characterization. Environmental Science and Pollution Research, 2016, 23, 20065-20080.                  | 2.7 | 6         |
| 114 | A point of use sensor assay for detecting purely viral versus viral-bacterial samples. Sensors and Actuators B: Chemical, 2020, 322, 128562.  | 4.0 | 6         |
| 115 | Electrochemical Detection of Important Biomarker for Artificial Ripening of Mango by Polymethacrylic Acid Imprinted Polymer Sensor. IEEE Sensors Journal, 2021, 21, 5695-5702.  | 2.4 | 6         |
| 116 | Fabrication of miniature elastomer lenses with programmable liquid mold for smartphone microscopy: curing polydimethylsiloxane with in situ curvature control. Journal of Biomedical Optics, 2018, 23, 1.   | 1.4 | 6         |
| 117 | Characterization and biodegradability assessment of water-soluble fraction of oily sludge using stir bar sorptive extraction and GCxGC-TOF MS. Environmental Pollution, 2022, 304, 119177.  | 3.7 | 6         |
| 118 | Polymer-Coated Fiber Optic Sensor as a Process Analytical Tool for Biopharmaceutical Impurity Detection. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 7666-7674.   | 2.4 | 5         |
| 119 | Desorption kinetics of soil sorbed carbazole, fluorene, and dibenzothiophene by <i>P. aeruginosa</i> RS1 from single and multicomponent systems and elucidation of their interaction effects. Biochemical Engineering Journal, 2022, 180, 108367. | 1.8 | 5         |
| 120 | Microcantilever based Biosensors. IETE Technical Review (Institution of Electronics and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50,302 Td (T   | 2.1 | 4         |
| 121 | LSPR based fiber optic sensor for detection of <i>E. coli</i> using bacteriophage T4. , 2015, , .   |     | 4         |
| 122 | Photocatalysis of dichlorvos using graphene oxide-TiO <sub>2</sub> nanocomposite under visible irradiation: process optimization using response surface methodology. Nanotechnology, 2021, 32, 405708.  | 1.3 | 4         |
| 123 | Polyphenol stabilized copper nanoparticle formulations for rapid disinfection of bacteria and virus on diverse surfaces. Nanotechnology, 2022, 33, 035701.  | 1.3 | 4         |
| 124 | Fast algorithms for binary cross-correlation. , 0, , .  |     | 3         |
| 125 | Novel bent-tapered mode converting multimode optical fiber sensor based on Evanescent Wave Absorption. , 2013, , .  |     | 3         |
| 126 | Analytical tools for monitoring changes in physical and chemical properties of chromatography resin upon reuse. Electrophoresis, 2019, 40, 3074-3083.   | 1.3 | 3         |



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|-----|---|-----|-----------|
| 127 | Bridging the gaps in the global governance of antimicrobial resistance: the UN sustainable development goals and global health security agenda. , 0, 1, 8.  |     | 3         |
| 128 | Status and Trends in Molecular Electronics. IETE Technical Review (Institution of Electronics and) Tj ETQq0 0 0 rgBT/Overlock,10 Tf 50 7  | 2.1 | 2         |
| 129 | A meso-pyridyl popyrin self-assembled monolayer on gold substrates for molecular electronics applications. , 0, , .   |     | 2         |
| 130 | Elucidation of substrate interaction effects in multicomponent systems containing 3-ring homocyclic and heterocyclic polynuclear aromatic hydrocarbons. Environmental Sciences: Processes and Impacts, 2021, 23, 1394-1404.           | 1.7 | 2         |
| 131 | Determination of penetration depth of localized surface plasmon resonance fiber optic probe using polyelectrolyte multilayers. , 2014, , .  |     | 2         |
| 132 | Surveillance and seasonal correlation of rotavirus A with coliphages and coliforms in two sewage impacted lakes in highly urbanized regions of western India. Environmental Science: Water Research and Technology, 2021, 8, 139-150. | 1.2 | 2         |
| 133 | Comparison of micro fabricated C and S bend shape SU-8 polymer waveguide of different bending diameters for maximum sensitivity. , 2012, , .  |     | 1         |
| 134 | U-bend fiber optic sensor using 6-mercaptopnicotinic acid (6-MNA) functionalized gold nanoparticles for detection of explosives RDX and TNT. , 2012, , .  |     | 1         |
| 135 | Performance of an algal-bacterial system for treatment of biomass gasifier wastewater in a 16-L RBC at 36 h HRT. Materials Today: Proceedings, 2016, 3, 3418-3426.  | 0.9 | 1         |
| 136 | Application of kinetic bioluminescence inhibition assay using live cultures of Aliivibrio fischeri for determination of zinc toxicity. International Journal of Environmental Science and Technology, 2018, 15, 1313-1322.            | 1.8 | 1         |
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