# Vinayaka Aaydha Chidambara

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 27 papers | 876 citations | 13 h-index | 28 g-index |
| 28 ext. papers | 1,014 ext. citations | 6.7 avg, IF | 4.36 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 27 | Elimination of Carryover Contamination in Real-Time Reverse Transcriptase Loop-Mediated Isothermal Amplification for Rapid Detection of the SARS-CoV-2 Virus in Point-of-Care Testing.. *Frontiers in Cellular and Infection Microbiology*, **2022**, 12, 856553 | 5.9 | 1 |
| 26 | Development of Reverse Transcription Loop-Mediated Isothermal Amplification Assay for Rapid and On-Site Detection of Avian Influenza Virus. *Frontiers in Cellular and Infection Microbiology*, **2021** , 11, 652048 | 5.9 | 4 |
| 25 | Magnetic beads modified with Pt/Pd nanoparticle and aptamer as a catalytic nano-bioprobe in combination with loop mediated isothermal amplification for the on-site detection of Salmonella Typhimurium in food and fecal samples. *Food Control*, **2021**, 121, 107664 | 6.2 | 10 |
| 24 | Point-of-care diagnosis of invasive non-typhoidal Salmonella enterica in bloodstream infections using immunomagnetic capture and loop-mediated isothermal amplification. *New Biotechnology*, **2021**, 66, 1-7 | 6.4 | 2 |
| 23 | Pathogen Concentration Combined Solid-Phase PCR on Supercritical Angle Fluorescence Microlens Array for Multiplexed Detection of Invasive Nontyphoidal Serovars. *Analytical Chemistry*, **2020**, 92, 2706-2713 | 7.8 | 8 |
| 22 | Point-of-care devices for pathogen detections: The three most important factors to realise towards commercialization. *TrAC - Trends in Analytical Chemistry*, **2020**, 131, 116004 | 14.6 | 25 |
| 21 | A Complete Protocol for Rapid and Low-Cost Fabrication of Polymer Microfluidic Chips Containing Three-Dimensional Microstructures Used in Point-of-Care Devices. *Micromachines*, **2019**, 10, | 3.3 | 11 |
| 20 | A Sensitive, Specific and Simple Loop Mediated Isothermal Amplification Method for Rapid Detection of spp. in Broiler Production. *Frontiers in Microbiology*, **2019**, 10, 2443 | 5.7 | 9 |
| 19 | Rapid detection of Salmonella enterica in food samples by a novel approach with combination of sample concentration and direct PCR. *Biosensors and Bioelectronics*, **2019**, 129, 224-230 | 11.8 | 60 |
| 18 | Microfluidic devices for sample preparation and rapid detection of foodborne pathogens. *Biotechnology Advances*, **2018**, 36, 1003-1024 | 17.8 | 95 |
| 17 | Molecularly imprinted polymers for sample preparation and biosensing in food analysis: Progress and perspectives. *Biosensors and Bioelectronics*, **2017**, 91, 606-615 | 11.8 | 201 |
| 16 | Basic Principles of Optical Biosensors in Food Engineering **2016**, 70-87 | | 2 |
| 15 | Anodic stripping voltammetry of anti-Vi antibody functionalized CdTe quantum dots for the specific monitoring of Salmonella enterica serovar Typhi. *RSC Advances*, **2015**, 5, 88234-88240 | 3.7 | 6 |
| 14 | Immuno-fluorescence based Vi capsular polysaccharide detection for specific recognition of Salmonella enterica serovar Typhi in clinical samples. *Analytica Chimica Acta*, **2014**, 841, 51-7 | 6.6 | 6 |
| 13 | Avian Antibodies for Staphylococcal Enterotoxin B as an Efficient Tool for FRET-Based Fluoroimmunosensor. *BioNanoScience*, **2013**, 3, 232-240 | 3.4 | 6 |
| 12 | Facile synthesis and photophysical characterization of luminescent CdTe quantum dots for Forster resonance energy transfer based immunosensing of staphylococcal enterotoxin B. *Luminescence*, **2013**, 28, 827-35 | 2.5 | 17 |
| 11 | Nanoparticles and Biophotonics as Efficient Tools in Resonance Energy Transfer-Based Biosensing for Monitoring Food Toxins and Pesticides. *ACS Symposium Series*, **2013**, 55-84 | 0.4 | 5 |

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|---|---|---|---|
| 10 | An immunoreactor-based competitive fluoroimmunoassay for monitoring staphylococcal enterotoxin B using bioconjugated quantum dots. *Analyst, The*, **2012**, 137, 4343-8 | 5 | 15 |
| 9 | Quantum dots as nano plug-ins for efficient NADH resonance energy routing. *Biosensors and Bioelectronics*, **2012**, 38, 411-5 | 11.8 | 14 |
| 8 | Development of dipstick-based immuno-chemiluminescence techniques for the rapid detection of dichlorodiphenyltrichloroethane. *Luminescence*, **2012**, 27, 524-9 | 2.5 | 9 |
| 7 | Photoabsorption and resonance energy transfer phenomenon in CdTe-protein bioconjugates: an insight into QD-biomolecular interactions. *Bioconjugate Chemistry*, **2011**, 22, 968-75 | 6.3 | 38 |
| 6 | Chemiluminescence based technique for the detection of methyl parathion in water and fruit beverages. *Analytical Methods*, **2010**, 2, 924 | 3.2 | 30 |
| 5 | An immobilized dehydrohalogenase based potentiometric biosensor for the detection of chlorinated pesticides. *Analytical Methods*, **2010**, 2, 1355 | 3.2 | 3 |
| 4 | Thiol-stabilized luminescent CdTe quantum dot as biological fluorescent probe for sensitive detection of methyl parathion by a fluoroimmunochromatographic technique. *Analytical and Bioanalytical Chemistry*, **2010**, 397, 1467-75 | 4.4 | 38 |
| 3 | Focus on quantum dots as potential fluorescent probes for monitoring food toxicants and foodborne pathogens. *Analytical and Bioanalytical Chemistry*, **2010**, 397, 1445-55 | 4.4 | 51 |
| 2 | Gold nanoparticles based dipstick immunoassay for the rapid detection of dichlorodiphenyltrichloroethane: an organochlorine pesticide. *Biosensors and Bioelectronics*, **2009**, 25, 224-7 | 11.8 | 101 |
| 1 | Bioconjugation of CdTe quantum dot for the detection of 2,4-dichlorophenoxyacetic acid by competitive fluoroimmunoassay based biosensor. *Biosensors and Bioelectronics*, **2009**, 24, 1615-20 | 11.8 | 109 |