# Oluwasesan Adegoke

## List of Publications by Citations



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|---|---|---|---|
| 49 papers | 877 citations | 18 h-index | 27 g-index |
| 50 ext. papers | 1,096 ext. citations | 5.3 avg, IF | 4.88 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 49 | Versatility of a localized surface plasmon resonance-based gold nanoparticle-alloyed quantum dot nanobiosensor for immunofluorescence detection of viruses. *Biosensors and Bioelectronics*, **2017**, 89, 998-1005 | 11.8 | 106 |
| 48 | Localized surface plasmon resonance-mediated fluorescence signals in plasmonic nanoparticle-quantum dot hybrids for ultrasensitive Zika virus RNA detection via hairpin hybridization assays. *Biosensors and Bioelectronics*, **2017**, 94, 513-522 | 11.8 | 60 |
| 47 | Challenges and advances in quantum dot fluorescent probes to detect reactive oxygen and nitrogen species: a review. *Analytica Chimica Acta*, **2015**, 862, 1-13 | 6.6 | 50 |
| 46 | An ultrasensitive SiO2-encapsulated alloyed CdZnSeS quantum dot-molecular beacon nanobiosensor for norovirus. *Biosensors and Bioelectronics*, **2016**, 86, 135-142 | 11.8 | 39 |
| 45 | Single-step detection of norovirus tuning localized surface plasmon resonance-induced optical signal between gold nanoparticles and quantum dots. *Biosensors and Bioelectronics*, **2018**, 122, 16-24 | 11.8 | 39 |
| 44 | Probing the sensitive and selective luminescent detection of peroxynitrite using thiol-capped CdTe and CdTe@ZnS quantum dots. *Journal of Luminescence*, **2013**, 134, 448-455 | 3.8 | 37 |
| 43 | Fluorometric virus detection platform using quantum dots-gold nanocomposites optimizing the linker length variation. *Analytica Chimica Acta*, **2020**, 1109, 148-157 | 6.6 | 36 |
| 42 | Fluorescence "switch on" of conjugates of CdTe@ZnS quantum dots with Al, Ni and Zn tetraamino-phthalocyanines by hydrogen peroxide: characterization and applications as luminescent nanosensors. *Journal of Fluorescence*, **2013**, 23, 963-74 | 2.4 | 32 |
| 41 | Structural and optical properties of alloyed quaternary CdSeTeS core and CdSeTeS/ZnS core–shell quantum dots. *Journal of Alloys and Compounds*, **2015**, 645, 443-449 | 5.7 | 29 |
| 40 | Size-confined fixed-composition and composition-dependent engineered band gap alloying induces different internal structures in L-cysteine-capped alloyed quaternary CdZnTeS quantum dots. *Scientific Reports*, **2016**, 6, 27288 | 4.9 | 28 |
| 39 | Synthesis and characterization of quantum dots designed for biomedical use. *International Journal of Pharmaceutics*, **2014**, 466, 382-9 | 6.5 | 27 |
| 38 | L-cysteine-capped core/shell/shell quantum dot-graphene oxide nanocomposite fluorescence probe for polycyclic aromatic hydrocarbon detection. *Talanta*, **2016**, 146, 780-8 | 6.2 | 26 |
| 37 | An ultrasensitive alloyed near-infrared quinternary quantum dot-molecular beacon nanodiagnostic bioprobe for influenza virus RNA. *Biosensors and Bioelectronics*, **2016**, 80, 483-490 | 11.8 | 25 |
| 36 | Gradient band gap engineered alloyed quaternary/ternary CdZnSeS/ZnSeS quantum dots: an ultrasensitive fluorescence reporter in a conjugated molecular beacon system for the biosensing of influenza virus RNA. *Journal of Materials Chemistry B*, **2016**, 4, 1489-1498 | 7.3 | 23 |
| 35 | A localized surface plasmon resonance-amplified immunofluorescence biosensor for ultrasensitive and rapid detection of nonstructural protein 1 of Zika virus. *PLoS ONE*, **2019**, 14, e0211517 | 3.7 | 20 |
| 34 | Effects of analytes on the fluorescence properties of CdTe@ZnS quantum dots decorated with cobalt tetraamino-phthalocyanine. *Journal of Luminescence*, **2014**, 146, 275-283 | 3.8 | 20 |
| 33 | Gold Nanoparticle-Quantum Dot Fluorescent Nanohybrid: Application for Localized Surface Plasmon Resonance-induced Molecular Beacon Ultrasensitive DNA Detection. *Nanoscale Research Letters*, **2016**, 11, 523 | 5 | 19 |

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| 32 | Nanoconjugates of CdTe@ZnS quantum dots with cobalt tetraamino-phthalocyanine: Characterization and implications for the fluorescence recognition of superoxide anion. *Journal of Photochemistry and Photobiology A: Chemistry*, **2013**, 257, 11-19 | 4.7 | 18 |
| 31 | Bright luminescent optically engineered core/alloyed shell quantum dots: an ultrasensitive signal transducer for dengue virus RNA via localized surface plasmon resonance-induced hairpin hybridization. *Journal of Materials Chemistry B*, **2017**, 5, 3047-3058 | 7.3 | 16 |
| 30 | Alloyed quaternary/binary core/shell quantum dot-graphene oxide nanocomposite: Preparation, characterization and application as a fluorescence "switch ON" probe for environmental pollutants. *Journal of Alloys and Compounds*, **2017**, 720, 70-78 | 5.7 | 16 |
| 29 | Fluorescence "turn on" probe for bromide ion using nanoconjugates of glutathione-capped CdTe@ZnS quantum dots with nickel tetraamino-phthalocyanine: Characterization and size-dependent properties. *Journal of Photochemistry and Photobiology A: Chemistry*, **2013**, 265, 58-66 | 4.7 | 16 |
| 28 | Conjugation of mono-substituted phthalocyanine derivatives to CdSe@ZnS quantum dots and their applications as fluorescent-based sensors. *Synthetic Metals*, **2014**, 188, 35-45 | 3.6 | 15 |
| 27 | Fluorescence properties of alloyed ZnSeS quantum dots overcoated with ZnTe and ZnTe/ZnS shells. *Optical Materials*, **2016**, 54, 104-110 | 3.3 | 14 |
| 26 | A comparative study on the sensitive detection of hydroxyl radical using thiol-capped CdTe and CdTe/ZnS quantum dots. *Journal of Fluorescence*, **2012**, 22, 1513-9 | 2.4 | 14 |
| 25 | Aptamer-based cocaine assay using a nanohybrid composed of ZnS/AgSe quantum dots, graphene oxide and gold nanoparticles as a fluorescent probe. *Mikrochimica Acta*, **2020**, 187, 104 | 5.8 | 14 |
| 24 | Multi-shaped cationic gold nanoparticle-l-cysteine-ZnSeS quantum dots hybrid nanozyme as an intrinsic peroxidase mimic for the rapid colorimetric detection of cocaine. *Sensors and Actuators B: Chemical*, **2019**, 287, 416-427 | 8.5 | 14 |
| 23 | Biomimetic graphene oxide-cationic multi-shaped gold nanoparticle-hemin hybrid nanozyme: Tuning enhanced catalytic activity for the rapid colorimetric apta-biosensing of amphetamine-type stimulants. *Talanta*, **2020**, 216, 120990 | 6.2 | 13 |
| 22 | High-Performance Biosensing Systems Based on Various Nanomaterials as Signal Transducers. *Biotechnology Journal*, **2019**, 14, e1800249 | 5.6 | 13 |
| 21 | Optical properties of water-soluble l-cysteine-capped alloyed CdSeS quantum dot passivated with ZnSeTe and ZnSeTe/ZnS shells. *Optical Materials*, **2015**, 46, 548-554 | 3.3 | 12 |
| 20 | Rapid and highly selective colorimetric detection of nitrite based on the catalytic-enhanced reaction of mimetic Au nanoparticle-CeO nanoparticle-graphene oxide hybrid nanozyme. *Talanta*, **2021**, 224, 121875 | 6.2 | 10 |
| 19 | Deposition of CdS, CdS/ZnSe and CdS/ZnSe/ZnS shells around CdSeTe alloyed core quantum dots: effects on optical properties. *Luminescence*, **2016**, 31, 694-703 | 2.5 | 8 |
| 18 | Unsymmetrically Substituted Nickel Triazatetra-Benzcorrole and Phthalocynanine Complexes: Conjugation to Quantum Dots and Applications as Fluorescent "Turn ON" Sensors. *Journal of Fluorescence*, **2014**, 24, 481-91 | 2.4 | 8 |
| 17 | CdTe quantum dots functionalized with 4-amino-2,2,6,6-tetramethylpiperidine-N-oxide as luminescent nanoprobe for the sensitive recognition of bromide ion. *Analytica Chimica Acta*, **2012**, 721, 154-61 | 6.6 | 7 |
| 16 | Interaction of CdTe quantum dots with 2,2-diphenyl-1-picrylhydrazyl free radical: a spectroscopic, fluorimetric and kinetic study. *Journal of Fluorescence*, **2012**, 22, 771-8 | 2.4 | 7 |
| 15 | The use of nanocrystal quantum dot as fluorophore reporters in molecular beacon-based assays. *Nano Convergence*, **2016**, 3, 32 | 9.2 | 6 |

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| 14 | Rapid and selective aptamer-based fluorescence detection of salivary lysozyme using plasmonic metal-enhanced fluorescence of ZnSSe alloyed quantum dots-gold nanoparticle nanohybrid. *Journal of Photochemistry and Photobiology A: Chemistry*, **2021**, 418, 113384 | 4.7 | 6 |
| 13 | Luminescence detection of latent fingermarks on non-porous surfaces with heavy-metal-free quantum dots. *Forensic Chemistry*, **2020**, 18, 100222 | 2.8 | 5 |
| 12 | Plasmonic Oleylamine-Capped Gold and Silver Nanoparticle-Assisted Synthesis of Luminescent Alloyed CdZnSeS Quantum Dots. *ACS Omega*, **2018**, 3, 1357-1366 | 3.9 | 5 |
| 11 | Polymeric-coated Fe-doped ceria/gold hybrid nanocomposite as an aptasensor for the catalytic enhanced colorimetric detection of 2,4-dinitrophenol. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 627, 127194 | 5.1 | 5 |
| 10 | Development of a Thiol-capped Core/Shell Quantum Dot Sensor for Acetaminophen. *South African Journal of Chemistry*, **2019**, 72, 108-117 | 1.8 | 4 |
| 9 | Passivating effect of ternary alloyed AgZnSe shell layer on the structural and luminescent properties of CdS quantum dots. *Materials Science in Semiconductor Processing*, **2019**, 90, 162-170 | 4.3 | 4 |
| 8 | Alloyed AuFeZnSe quantum dots@gold nanorod nanocomposite as an ultrasensitive and selective plasmon-amplified fluorescence OFF-ON aptasensor for arsenic (III). *Journal of Photochemistry and Photobiology A: Chemistry*, **2022**, 426, 113755 | 4.7 | 3 |
| 7 | Nanofabricated optical tuning and epitaxial overgrowth of In2S3 shells on CdSe cores. *New Journal of Chemistry*, **2017**, 41, 1303-1312 | 3.6 | 2 |
| 6 | Photophysical properties of a series of alloyed and non-alloyed water-soluble l-cysteine-capped core quantum dots. *Journal of Alloys and Compounds*, **2017**, 695, 1354-1361 | 5.7 | 2 |
| 5 | Colorimetric optical nanosensors for trace explosive detection using metal nanoparticles: advances, pitfalls, and future perspective. *Emerging Topics in Life Sciences*, **2021**, 5, 367-379 | 3.5 | 1 |
| 4 | Organometallic synthesis, structural and optical properties of CdSe quantum dots passivated with ternary AgZnS alloyed shell. *Journal of Luminescence*, **2021**, 235, 118049 | 3.8 | 1 |
| 3 | Fabrication of a near-infrared fluorescence-emitting SiO2-AuZnFeSeS quantum dots-molecularly imprinted polymer nanocomposite for the ultrasensitive fluorescence detection of levamisole. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2022**, 646, 129013 | 5.1 | 1 |
| 2 | Detection of Reactive Oxygen Species **2016**, 17-24 | | |
| 1 | Cytotoxicity screening of a series of semiconductor quantum dots for their potential biomedical use. *FASEB Journal*, **2013**, 27, 575.11 | 0.9 | |