Oluwasesan Adegoke

List of Publications by Year in Descending Order

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	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
48	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
47	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
46	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
45	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
44	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
43	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
42	Fluorometric virus detection platform using quantum dots-gold nanocomposites optimizing the linker length variation. *Analytica Chimica Acta*, **2020**, 1109, 148-157	6.6	36
41	Luminescence detection of latent fingermarks on non-porous surfaces with heavy-metal-free quantum dots. *Forensic Chemistry*, **2020**, 18, 100222	2.8	5
40	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
39	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
38	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
37	High-Performance Biosensing Systems Based on Various Nanomaterials as Signal Transducers. *Biotechnology Journal*, **2019**, 14, e1800249	5.6	13
36	Development of a Thiol-capped Core/Shell Quantum Dot Sensor for Acetaminophen. *South African Journal of Chemistry*, **2019**, 72, 108-117	1.8	4
35	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
34	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
33	Plasmonic Oleylamine-Capped Gold and Silver Nanoparticle-Assisted Synthesis of Luminescent Alloyed CdZnSeS Quantum Dots. *ACS Omega*, **2018**, 3, 1357-1366	3.9	5

32	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
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	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
28	Nanofabricated optical tuning and epitaxial overgrowth of In2S3 shells on CdSe cores. *New Journal of Chemistry*, **2017**, 41, 1303-1312	3.6	2
27	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
26	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
25	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
24	Detection of Reactive Oxygen Species **2016**, 17-24		
23	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
22	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
21	An ultrasensitive SiO2-encapsulated alloyed CdZnSeS quantum dot-molecular beacon nanobiosensor for norovirus. *Biosensors and Bioelectronics*, **2016**, 86, 135-142	11.8	39
20	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
19	Fluorescence properties of alloyed ZnSeS quantum dots overcoated with ZnTe and ZnTe/ZnS shells. *Optical Materials*, **2016**, 54, 104-110	3.3	14
18	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
17	The use of nanocrystal quantum dot as fluorophore reporters in molecular beacon-based assays. *Nano Convergence*, **2016**, 3, 32	9.2	6
16	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
15	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

14	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
13	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
12	Synthesis and characterization of quantum dots designed for biomedical use. *International Journal of Pharmaceutics*, **2014**, 466, 382-9	6.5	27
11	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
10	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
9	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
8	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
7	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
6	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
5	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
4	Cytotoxicity screening of a series of semiconductor quantum dots for their potential biomedical use. *FASEB Journal*, **2013**, 27, 575.11	0.9	
3	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
2	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
1	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