

Oluwasesan Adegoke

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,229
citations

304368

22
h-index

377514

34
g-index

50
all docs

50
docs citations

50
times ranked

1628
citing authors

#	ARTICLE	IF	CITATIONS
1	Versatility of a localized surface plasmon resonance-based gold nanoparticle-alloyed quantum dot nanobiosensor for immunofluorescence detection of viruses. <i>Biosensors and Bioelectronics</i> , 2017, 89, 998-1005.	5.3	134
2	Localized surface plasmon resonance-mediated fluorescence signals in plasmonic nanoparticle-quantum dot hybrids for ultrasensitive Zika virus RNA detection via hairpin hybridization assays. <i>Biosensors and Bioelectronics</i> , 2017, 94, 513-522.	5.3	84
3	Challenges and advances in quantum dot fluorescent probes to detect reactive oxygen and nitrogen species: A review. <i>Analytica Chimica Acta</i> , 2015, 862, 1-13.	2.6	70
4	Fluorometric virus detection platform using quantum dots-gold nanocomposites optimizing the linker length variation. <i>Analytica Chimica Acta</i> , 2020, 1109, 148-157.	2.6	59
5	Single-step detection of norovirus tuning localized surface plasmon resonance-induced optical signal between gold nanoparticles and quantum dots. <i>Biosensors and Bioelectronics</i> , 2018, 122, 16-24.	5.3	54
6	An ultrasensitive SiO ₂ -encapsulated alloyed CdZnSeS quantum dot-molecular beacon nanobiosensor for norovirus. <i>Biosensors and Bioelectronics</i> , 2016, 86, 135-142.	5.3	46
7	Probing the sensitive and selective luminescent detection of peroxyxynitrite using thiol-capped CdTe and CdTe@ZnS quantum dots. <i>Journal of Luminescence</i> , 2013, 134, 448-455.	1.5	43
8	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. <i>Journal of Fluorescence</i> , 2013, 23, 963-974.	1.3	39
9	Structural and optical properties of alloyed quaternary CdSeTeS core and CdSeTeS/ZnS core-shell quantum dots. <i>Journal of Alloys and Compounds</i> , 2015, 645, 443-449.	2.8	36
10	Synthesis and characterization of quantum dots designed for biomedical use. <i>International Journal of Pharmaceutics</i> , 2014, 466, 382-389.	2.6	34
11	L-Cysteine-capped core/shell/shell quantum dot-graphene oxide nanocomposite fluorescence probe for polycyclic aromatic hydrocarbon detection. <i>Talanta</i> , 2016, 146, 780-788.	2.9	33
12	Size-confined fixed-composition and composition-dependent engineered band gap alloying induces different internal structures in L-cysteine-capped alloyed quaternary CdZnTeS quantum dots. <i>Scientific Reports</i> , 2016, 6, 27288.	1.6	32
13	A localized surface plasmon resonance-amplified immunofluorescence biosensor for ultrasensitive and rapid detection of nonstructural protein 1 of Zika virus. <i>PLoS ONE</i> , 2019, 14, e0211517.	1.1	30
14	Rapid and highly selective colorimetric detection of nitrite based on the catalytic-enhanced reaction of mimetic Au nanoparticle-CeO ₂ nanoparticle-graphene oxide hybrid nanozyme. <i>Talanta</i> , 2021, 224, 121875.	2.9	30
15	An ultrasensitive alloyed near-infrared quaternary quantum dot-molecular beacon nanodiagnostic bioprobe for influenza virus RNA. <i>Biosensors and Bioelectronics</i> , 2016, 80, 483-490.	5.3	29
16	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. <i>Journal of Materials Chemistry B</i> , 2016, 4, 1489-1498.	2.9	28
17	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. <i>Talanta</i> , 2020, 216, 120990.	2.9	28
18	Multi-shaped cationic gold nanoparticle-l-cysteine-ZnSeS quantum dots hybrid nanozyme as an intrinsic peroxidase mimic for the rapid colorimetric detection of cocaine. <i>Sensors and Actuators B: Chemical</i> , 2019, 287, 416-427.	4.0	27

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19	Aptamer-based cocaine assay using a nanohybrid composed of ZnS/Ag ₂ Se quantum dots, graphene oxide and gold nanoparticles as a fluorescent probe. <i>Mikrochimica Acta</i> , 2020, 187, 104.	2.5	27
20	Gold Nanoparticle-Quantum Dot Fluorescent Nanohybrid: Application for Localized Surface Plasmon Resonance-induced Molecular Beacon Ultrasensitive DNA Detection. <i>Nanoscale Research Letters</i> , 2016, 11, 523.	3.1	24
21	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. <i>Journal of Materials Chemistry B</i> , 2017, 5, 3047-3058.	2.9	24
22	Effects of analytes on the fluorescence properties of CdTe@ZnS quantum dots decorated with cobalt tetraamino-phthalocyanine. <i>Journal of Luminescence</i> , 2014, 146, 275-283.	1.5	23
23	High Performance Biosensing Systems Based on Various Nanomaterials as Signal Transducers. <i>Biotechnology Journal</i> , 2019, 14, e1800249.	1.8	21
24	Nanoconjugates of CdTe@ZnS quantum dots with cobalt tetraamino-phthalocyanine: Characterization and implications for the fluorescence recognition of superoxide anion. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 257, 11-19.	2.0	20
25	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. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 265, 58-66.	2.0	19
26	Alloyed quaternary/binary core/shell quantum dot-graphene oxide nanocomposite: Preparation, characterization and application as a fluorescence "switch ON" probe for environmental pollutants. <i>Journal of Alloys and Compounds</i> , 2017, 720, 70-78.	2.8	19
27	Optical properties of water-soluble L-cysteine-capped alloyed CdSeS quantum dot passivated with ZnSeTe and ZnSeTe/ZnS shells. <i>Optical Materials</i> , 2015, 46, 548-554.	1.7	18
28	Conjugation of mono-substituted phthalocyanine derivatives to CdSe@ZnS quantum dots and their applications as fluorescent-based sensors. <i>Synthetic Metals</i> , 2014, 188, 35-45.	2.1	17
29	A Comparative Study on the Sensitive Detection of Hydroxyl Radical Using Thiol-capped CdTe and CdTe/ZnS Quantum Dots. <i>Journal of Fluorescence</i> , 2012, 22, 1513-1519.	1.3	16
30	Fluorescence properties of alloyed ZnSeS quantum dots overcoated with ZnTe and ZnTe/ZnS shells. <i>Optical Materials</i> , 2016, 54, 104-110.	1.7	15
31	Polymeric-coated Fe-doped ceria/gold hybrid nanocomposite as an aptasensor for the catalytic enhanced colorimetric detection of 2,4-dinitrophenol. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 627, 127194.	2.3	13
32	Fabrication of a near-infrared fluorescence-emitting SiO ₂ -AuZnFeSeS quantum dots-molecularly imprinted polymer nanocomposite for the ultrasensitive fluorescence detection of levamisole. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 646, 129013.	2.3	12
33	Unsymmetrically Substituted Nickel Triazate-tetra-Benzcorrole and Phthalocyanine Complexes: Conjugation to Quantum Dots and Applications as Fluorescent "Turn ON" Sensors. <i>Journal of Fluorescence</i> , 2014, 24, 481-491.	1.3	11
34	Luminescence detection of latent fingerprints on non-porous surfaces with heavy-metal-free quantum dots. <i>Forensic Chemistry</i> , 2020, 18, 100222.	1.7	11
35	CdTe quantum dots functionalized with 4-amino-2,2,6,6-tetramethylpiperidine-N-oxide as luminescent nanoprobe for the sensitive recognition of bromide ion. <i>Analytica Chimica Acta</i> , 2012, 721, 154-161.	2.6	10
36	The use of nanocrystal quantum dot as fluorophore reporters in molecular beacon-based assays. <i>Nano Convergence</i> , 2016, 3, 32.	6.3	10

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37	Colorimetric optical nanosensors for trace explosive detection using metal nanoparticles: advances, pitfalls, and future perspective. <i>Emerging Topics in Life Sciences</i> , 2021, 5, 367-379.	1.1	10
38	Rapid and selective aptamer-based fluorescence detection of salivary lysozyme using plasmonic metal-enhanced fluorescence of ZnSSe alloyed quantum dots-gold nanoparticle nanohybrid. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 418, 113384.	2.0	10
39	Alloyed AuFeZnSe quantum dots@gold nanorod nanocomposite as an ultrasensitive and selective plasmon-amplified fluorescence OFF-ON aptasensor for arsenic (III). <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 426, 113755.	2.0	10
40	Plasmonic Oleylamine-Capped Gold and Silver Nanoparticle-Assisted Synthesis of Luminescent Alloyed CdZnSeS Quantum Dots. <i>ACS Omega</i> , 2018, 3, 1357-1366.	1.6	9
41	Interaction of CdTe Quantum Dots with 2,2-Diphenyl-1-Picrylhydrazyl Free Radical: A Spectroscopic, Fluorimetric and Kinetic Study. <i>Journal of Fluorescence</i> , 2012, 22, 771-778.	1.3	8
42	Deposition of CdS, CdS/ZnSe and CdS/ZnSe/ZnS shells around CdSeTe alloyed core quantum dots: effects on optical properties. <i>Luminescence</i> , 2016, 31, 694-703.	1.5	8
43	Passivating effect of ternary alloyed AgZnSe shell layer on the structural and luminescent properties of CdS quantum dots. <i>Materials Science in Semiconductor Processing</i> , 2019, 90, 162-170.	1.9	7
44	Nanofabricated optical tuning and epitaxial overgrowth of In ₂ S ₃ shells on CdSe cores. <i>New Journal of Chemistry</i> , 2017, 41, 1303-1312.	1.4	6
45	Organometallic synthesis, structural and optical properties of CdSe quantum dots passivated with ternary AgZnS alloyed shell. <i>Journal of Luminescence</i> , 2021, 235, 118049.	1.5	5
46	Development of a Thiol-capped Core/Shell Quantum Dot Sensor for Acetaminophen. <i>South African Journal of Chemistry</i> , 2019, 72, 108-117.	0.3	4
47	Photophysical properties of a series of alloyed and non-alloyed water-soluble l-cysteine-capped core quantum dots. <i>Journal of Alloys and Compounds</i> , 2017, 695, 1354-1361.	2.8	3
48	Surface plasmon-enhanced aptamer-based fluorescence detection of cocaine using hybrid nanostructure of cadmium-free ZnSe/In ₂ S ₃ core/shell quantum dots and gold nanoparticles. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 433, 114131.	2.0	3
49	Detection of Reactive Oxygen Species. , 2016, , 17-24.		0
50	Cytotoxicity screening of a series of semiconductor quantum dots for their potential biomedical use. <i>FASEB Journal</i> , 2013, 27, 575.11.	0.2	0