

Omotayo A Arotiba

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6332805/omotayo-a-arotiba-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

106
papers

3,439
citations

30
h-index

55
g-index

110
ext. papers

4,200
ext. citations

4.6
avg, IF

6.42
L-index

#	Paper	IF	Citations
106	Chitosan-based nanomaterials: a state-of-the-art review. <i>International Journal of Biological Macromolecules</i> , 2013 , 59, 46-58	7.9	581
105	Simultaneous determination of cholesterol, ascorbic acid and uric acid as three essential biological compounds at a carbon paste electrode modified with copper oxide decorated reduced graphene oxide nanocomposite and ionic liquid. <i>Journal of Colloid and Interface Science</i> , 2020 , 560, 208-212	9.3	269
104	Development of a sodium alginate-based organic/inorganic superabsorbent composite hydrogel for adsorption of methylene blue. <i>Carbohydrate Polymers</i> , 2016 , 153, 34-46	10.3	217
103	The determination of 2-phenylphenol in the presence of 4-chlorophenol using nano-FeO/ionic liquid paste electrode as an electrochemical sensor. <i>Journal of Colloid and Interface Science</i> , 2019 , 554, 603-610	9.3	182
102	Electrochemical aptasensor for endocrine disrupting 17 β -estradiol based on a poly(3,4-ethylenedioxythiophene)-gold nanocomposite platform. <i>Sensors</i> , 2010 , 10, 9872-90	3.8	101
101	Electrochemical Immunosensor Based on Polythionine/Gold Nanoparticles for the Determination of Aflatoxin B $_1$. <i>Sensors</i> , 2008 , 8, 8262-8274	3.8	93
100	Recent trend in visible-light photoelectrocatalytic systems for degradation of organic contaminants in water/wastewater. <i>Environmental Science: Water Research and Technology</i> , 2018 , 4, 1389-1411	4.2	73
99	Electrochemical detection of glyphosate herbicide using horseradish peroxidase immobilized on sulfonated polymer matrix. <i>Bioelectrochemistry</i> , 2009 , 75, 117-23	5.6	70
98	Towards wastewater treatment: Photo-assisted electrochemical degradation of 2-nitrophenol and orange II dye at a tungsten trioxide-exfoliated graphite composite electrode. <i>Chemical Engineering Journal</i> , 2017 , 317, 290-301	14.7	63
97	Electrochemical co-detection of As(III), Hg(II) and Pb(II) on a bismuth modified exfoliated graphite electrode. <i>Talanta</i> , 2016 , 153, 99-106	6.2	56
96	Voltammetric detection of arsenic on a bismuth modified exfoliated graphite electrode. <i>Electrochimica Acta</i> , 2014 , 128, 48-53	6.7	56
95	Visible light driven photoelectrocatalysis on a FTO/BiVO $_4$ /BiOI anode for water treatment involving emerging pharmaceutical pollutants. <i>Electrochimica Acta</i> , 2019 , 307, 285-292	6.7	55
94	Synthesis, characterization and adsorption studies of an acrylic acid-grafted sodium alginate-based TiO $_2$ hydrogel nanocomposite. <i>Adsorption Science and Technology</i> , 2018 , 36, 458-477	3.6	50
93	An Exfoliated Graphite-Based Bisphenol A Electrochemical Sensor. <i>Sensors</i> , 2012 , 12, 11601-11611	3.8	45
92	Green synthesis and stabilization of gold nanoparticles in chemically modified chitosan matrices. <i>International Journal of Biological Macromolecules</i> , 2011 , 48, 682-7	7.9	44
91	Cu $_2$ O on anodised TiO $_2$ nanotube arrays: A heterojunction photoanode for visible light assisted electrochemical degradation of pharmaceuticals in water. <i>Electrochimica Acta</i> , 2020 , 340, 135944	6.7	43
90	Synthesis, swelling and adsorption studies of a pH-responsive sodium alginate-poly(acrylic acid) superabsorbent hydrogel. <i>Polymer Bulletin</i> , 2018 , 75, 4587-4606	2.4	42

89	Synthesis and characterization of poly (2-hydroxyethyl methacrylate)-polyaniline based hydrogel composites. <i>Reactive and Functional Polymers</i> , 2008 , 68, 1239-1244	4.6	41
88	Solar photoelectrocatalytic degradation of ciprofloxacin at a FTO/BiVO ₄ /MnO ₂ anode: Kinetics, intermediate products and degradation pathway studies. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 103607	6.8	41
87	Photoelectrocatalytic water treatment systems: degradation, kinetics and intermediate products studies of sulfamethoxazole on a TiO ₂ /xfoliated graphite electrode. <i>RSC Advances</i> , 2017 , 7, 40571-40580	2.7	38
86	Expanded graphite supported p-n MoS ₂ -SnO ₂ heterojunction nanocomposite electrode for enhanced photo-electrocatalytic degradation of a pharmaceutical pollutant. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 827, 193-203	4.1	38
85	An Electrochemical DNA Biosensor Developed on a Nanocomposite Platform of Gold and Poly(propyleneimine) Dendrimer. <i>Sensors</i> , 2008 , 8, 6791-6809	3.8	36
84	Carboxymethyl cellulose thiol-imprinted polymers: Synthesis, characterization and selective Hg(II) adsorption. <i>Journal of Environmental Sciences</i> , 2019 , 79, 280-296	6.4	36
83	Epichlorohydrin crosslinked carboxymethyl cellulose-ethylenediamine imprinted polymer for the selective uptake of Cr(VI). <i>International Journal of Biological Macromolecules</i> , 2017 , 101, 837-844	7.9	35
82	Photocatalytic degradation of acid blue 74 in water using Ag ₂ O/ZnO nanostructures anchored on graphene oxide. <i>Solid State Sciences</i> , 2016 , 51, 66-73	3.4	35
81	Sol-gel derived xanthan gum/silica nanocomposite-a highly efficient cationic dyes adsorbent in aqueous system. <i>International Journal of Biological Macromolecules</i> , 2017 , 103, 596-604	7.9	34
80	Functionalized carbon nanoparticles, blacks and soots as electron-transfer building blocks and conduits. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 1226-41	4.5	34
79	Microsomal cytochrome P450-3A4 (CYP3A4) nanobiosensor for the determination of 2,4-dichlorophenol, an endocrine disruptor compound. <i>Electrochimica Acta</i> , 2009 , 54, 1925-1931	6.7	32
78	A potential masking approach in the detection of dopamine on 3-mercaptopropionic acid capped ZnSe quantum dots modified gold electrode in the presence of interferences. <i>Journal of Electroanalytical Chemistry</i> , 2010 , 643, 77-81	4.1	32
77	An electrochemical DNA biosensor developed on novel multinuclear nickel(II) salicylaldehyde metal dendrimer platform. <i>Electrochimica Acta</i> , 2007 , 53, 1689-1696	6.7	31
76	Laccase-immobilized dendritic nanofibrous membranes as a novel approach towards the removal of bisphenol A. <i>Environmental Technology (United Kingdom)</i> , 2018 , 39, 392-404	2.6	30
75	Electrochemical detection of Hg(II) in water using self-assembled single walled carbon nanotube-poly(m -amino benzene sulfonic acid) on gold electrode. <i>Sensing and Bio-Sensing Research</i> , 2016 , 10, 27-33	3.3	29
74	Zirconia-poly(propylene imine) dendrimer nanocomposite based electrochemical urea biosensor. <i>Enzyme and Microbial Technology</i> , 2014 , 66, 48-55	3.8	29
73	Electrochemical nitrite nanosensor developed with amine- and sulphate-functionalised polystyrene latex beads self-assembled on polyaniline. <i>Electrochimica Acta</i> , 2010 , 55, 4274-4280	6.7	28
72	Towards visible light driven photoelectrocatalysis for water treatment: Application of a FTO/BiVO ₄ /AgS heterojunction anode for the removal of emerging pharmaceutical pollutants. <i>Scientific Reports</i> , 2020 , 10, 5348	4.9	27

71	Nanogold modified glassy carbon electrode for the electrochemical detection of arsenic in water. <i>Russian Journal of Electrochemistry</i> , 2017 , 53, 170-177	1.2	26
70	Electrochemical detection and removal of lead in water using poly(propylene imine) modified re-compressed exfoliated graphite electrodes. <i>Journal of Applied Electrochemistry</i> , 2011 , 41, 1389-1396	2.6	25
69	Coupling cathodic electro-fenton with anodic photo-electrochemical oxidation: A feasibility study on the mineralization of paracetamol. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104394	6.8	25
68	Dealing with interference challenge in the electrochemical detection of As(III) & complexometric masking approach. <i>Electrochemistry Communications</i> , 2016 , 64, 18-20	5.1	24
67	An Electrochemical Cholesterol Biosensor Based on A CdTe/CdSe/ZnSe Quantum Dots-Poly (Propylene Imine) Dendrimer Nanocomposite Immobilisation Layer. <i>Sensors</i> , 2018 , 18,	3.8	23
66	Electro-Fenton and photoelectro-Fenton degradation of sulfamethazine using an active gas diffusion electrode without aeration. <i>Chemosphere</i> , 2020 , 250, 126177	8.4	22
65	Visible light-driven photoelectrocatalytic semiconductor heterojunction anodes for water treatment applications. <i>Current Opinion in Electrochemistry</i> , 2020 , 22, 25-34	7.2	22
64	Photoelectrochemical degradation of orange II dye in wastewater at a silver-zinc oxide/reduced graphene oxide nanocomposite photoanode. <i>RSC Advances</i> , 2016 , 6, 52868-52877	3.7	22
63	Interrogating solar photoelectrocatalysis on an exfoliated graphite-BiVO ₄ /ZnO composite electrode towards water treatment.. <i>RSC Advances</i> , 2019 , 9, 16586-16595	3.7	21
62	Enhancement of hydrogen peroxide production by electrochemical reduction of oxygen on carbon nanotubes modified with fluorine. <i>Chemosphere</i> , 2020 , 259, 127423	8.4	21
61	Electrochemical Degradation of an Anthraquinonic Dye on an Expanded Graphite-Diamond Composite Electrode. <i>Electrocatalysis</i> , 2016 , 7, 132-139	2.7	20
60	An Exfoliated Graphite Based Electrochemical Sensor for As(III) in Water. <i>Electroanalysis</i> , 2016 , 28, 1462-1469	3.4	19
59	Exfoliated graphite/titanium dioxide nanocomposites for photodegradation of eosin yellow. <i>Applied Surface Science</i> , 2014 , 300, 159-164	6.7	19
58	Photoelectrochemical oxidation of p-nitrophenol on an expanded graphite-TiO ₂ electrode. <i>Photochemical and Photobiological Sciences</i> , 2013 , 12, 1091-102	4.2	19
57	Electroanalysis of selenium in water on an electrodeposited gold-nanoparticle modified glassy carbon electrode. <i>Journal of Electroanalytical Chemistry</i> , 2015 , 758, 7-11	4.1	18
56	Electroanalysis of copper as a heavy metal pollutant in water using cobalt oxide modified exfoliated graphite electrode. <i>Physics and Chemistry of the Earth</i> , 2012 , 50-52, 127-131	3	18
55	Electrochemical impedimetry of electrodeposited poly(propylene imine) dendrimer monolayer. <i>Journal of Electroanalytical Chemistry</i> , 2010 , 638, 287-292	4.1	18
54	Synthesis, characterisation and application of an exfoliated graphite-diamond composite electrode in the electrochemical degradation of trichloroethylene. <i>RSC Advances</i> , 2013 , 3, 24473	3.7	17

53	Electrochemical aptasensing of cadmium (II) on a carbon black-gold nano-platform. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 858, 113796	4.1	17
52	An aptasensor for arsenic on a carbon-gold bi-nanoparticle platform. <i>Sensing and Bio-Sensing Research</i> , 2019 , 24, 100280	3.3	16
51	An Exfoliated Graphite-Based Electrochemical Immunosensor on a Dendrimer/Carbon Nanodot Platform for the Detection of Carcinoembryonic Antigen Cancer Biomarker. <i>Biosensors</i> , 2019 , 9,	5.9	16
50	Synthesis and characterization of poly(propylene imine) dendrimer [Polypyrrole conducting star copolymer. <i>Journal of Electroanalytical Chemistry</i> , 2011 , 652, 18-25	4.1	16
49	CuO as an emerging semiconductor in photocatalytic and photoelectrocatalytic treatment of water contaminated with organic substances: a review.. <i>RSC Advances</i> , 2020 , 10, 36514-36525	3.7	16
48	Solar-Light-Responsive Titanium-Sheet-Based Carbon Nanoparticles/B-BiVO/WO Photoanode for the Photoelectrocatalytic Degradation of Orange II Dye Water Pollutant. <i>ACS Omega</i> , 2020 , 5, 4743-4750 ^{3.9}	3.9	15
47	Photoelectrocatalytic application of palladium decorated zinc oxide-expanded graphite electrode for the removal of 4-nitrophenol: experimental and computational studies.. <i>RSC Advances</i> , 2018 , 8, 10253-10265 ^{3.7}	3.7	15
46	Bismuth vanadate in photoelectrocatalytic water treatment systems for the degradation of organics: A review on recent trends. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 878, 114724	4.1	14
45	An alpha-fetoprotein electrochemical immunosensor based on a carbon/gold bi-nanoparticle platform. <i>Analytical Methods</i> , 2018 , 10, 5649-5658	3.2	14
44	Photoelectrochemical degradation of eosin yellowish dye on exfoliated graphite/ZnO nanocomposite electrode. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 592-598	2.1	12
43	A Dendrimer Supported Electrochemical Immunosensor for the Detection of Alpha-feto protein [Cancer Biomarker. <i>Electroanalysis</i> , 2018 , 30, 31-37	3	12
42	Electrochemical Detection of 2,4-Dichlorophenol on a Ternary Composite Electrode of Diamond, Graphene, and Polyaniline. <i>ChemElectroChem</i> , 2017 , 4, 1074-1080	4.3	11
41	Rapid and template-free synthesis of copper(I) oxide-graphitic carbon nitride heterojunction for photocatalytic degradation of orange II dye in water. <i>Solid State Sciences</i> , 2019 , 97, 105994	3.4	11
40	An Exfoliated Graphite-Bismuth Vanadate Composite Photoanode for the Photoelectrochemical Degradation of Acid Orange 7 Dye. <i>Electrocatalysis</i> , 2019 , 10, 429-435	2.7	11
39	Ethylenediamine functionalized carbon nanoparticles: synthesis, characterization, and evaluation for cadmium removal from water. <i>RSC Advances</i> , 2017 , 7, 34226-34235	3.7	11
38	Synthesis, Characterization, and Application of Exfoliated Graphite/Zirconium Nanocomposite Electrode for the Photoelectrochemical Degradation of Organic Dye in Water. <i>Electrocatalysis</i> , 2015 , 6, 390-397	2.7	10
37	An AC-driven desalination/salination system based on a Nafion cationic rectifier. <i>Desalination</i> , 2020 , 480, 114351	10.3	10
36	Synthesis and characterisation of generation 2 and 3 poly(propylene imine) dendrimer capped NiFe nanoalloy. <i>Materials Letters</i> , 2012 , 68, 324-326	3.3	10

35	A polyamidoamine dendrimer-streptavidin supramolecular architecture for biosensor development. <i>Bioelectrochemistry</i> , 2017 , 118, 14-18	5.6	10
34	Composite polyester membranes with embedded dendrimer hosts and bimetallic Fe/Ni nanoparticles: synthesis, characterisation and application to water treatment. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	10
33	Nanostructured β -Cyclodextrin-Hyperbranched Polyethyleneimine (ECD-HPEI) Embedded in Polysulfone Membrane for the Removal of Humic Acid from Water. <i>Separation Science and Technology</i> , 2013 , 48, 2724-2734	2.5	10
32	Application of a Polypyrrole/Carboxy Methyl Cellulose Ion Imprinted Polymer in the Electrochemical Detection of Mercury in Water. <i>Electroanalysis</i> , 2018 , 30, 2612-2619	3	10
31	Cationic diodes by hot-pressing of Fumasep FKS-30 ionomer film onto a microhole in polyethylene terephthalate (PET). <i>Journal of Electroanalytical Chemistry</i> , 2018 , 815, 114-122	4.1	9
30	Photocatalytic application of Pd-ZnO-exfoliated graphite nanocomposite for the enhanced removal of acid orange 7 dye in water. <i>Solid State Sciences</i> , 2017 , 74, 118-124	3.4	9
29	Switching Anionic and Cationic Semipermeability in Partially Hydrolyzed Polyacrylonitrile: A pH-Tunable Ionic Rectifier. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 3214-3224	9.5	9
28	The application of FTO-CuO/AgPO heterojunction in the photoelectrochemical degradation of emerging pharmaceutical pollutant under visible light irradiation. <i>Chemosphere</i> , 2021 , 266, 129231	8.4	9
27	Electrochemical detection of selenium using glassy carbon electrode modified with reduced graphene oxide. <i>International Journal of Environmental Analytical Chemistry</i> , 2017 , 97, 534-547	1.8	8
26	Perovskite Oxide-Based Materials for Photocatalytic and Photoelectrocatalytic Treatment of Water. <i>Frontiers in Chemistry</i> , 2021 , 9, 634630	5	8
25	Flexible Polyester Screen-printed Electrode Modified with Carbon Nanofibers for the Electrochemical Aptasensing of Cadmium (II). <i>Electroanalysis</i> , 2020 , 32, 2650-2658	3	7
24	A Silver-Loaded Exfoliated Graphite Nanocomposite Anti-Fouling Electrochemical Sensor for Bisphenol A in Thermal Paper Samples. <i>ACS Omega</i> , 2021 , 6, 9401-9409	3.9	7
23	Towards cancer diagnostics - an β -teto protein electrochemical immunosensor on a manganese(IV) oxide/gold nanocomposite immobilisation layer.. <i>RSC Advances</i> , 2018 , 8, 30683-30691	3.7	7
22	Photoelectrocatalysis of paracetamol on PdZnO/ N-doped carbon nanofibers electrode. <i>Applied Materials Today</i> , 2021 , 24, 101129	6.6	7
21	Carbon Nanofibers Provide a Cationic Rectifier Material: Specific Electrolyte Effects, Bipolar Reactivity, and Prospect for Desalination. <i>ChemElectroChem</i> , 2019 , 6, 3145-3153	4.3	6
20	Overoxidized Polypyrrole Incorporated with Gold Nanoparticles as Platform for Impedimetric Anti-Transglutaminase Immunosensor. <i>Analytical Letters</i> , 2011 , 44, 1956-1966	2.2	6
19	Photocatalytic degradation of ciprofloxacin and sulfamethoxazole on a carbon nanodot doped tungsten trioxide: degradation product study. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2020 , 131, 453-470	1.6	5
18	Microscale Ionic Diodes: An Overview. <i>Electroanalysis</i> , 2021 , 33, 1398-1418	3	5

17	Photoelectrochemical Degradation of Organic Pollutants on a La ³⁺ Doped BiFeO ₃ Perovskite. <i>Catalysts</i> , 2021 , 11, 1069	4	5
16	Cyclodextrin-dendrimer functionalized polysulfone membrane for the removal of humic acid in water. <i>Journal of Applied Polymer Science</i> , 2013 , 130, n/a-n/a	2.9	4
15	Combined Electro-Fenton and Anodic Oxidation Processes at a Sub-Stoichiometric Titanium Oxide (Ti ₄ O ₇) Ceramic Electrode for the Degradation of Tetracycline in Water. <i>Water (Switzerland)</i> , 2021 , 13, 2772	3	4
14	Voltammetric Determination of Pb(II) Ions at a Modified Kaolinite-Carbon Paste Electrode. <i>Electrocatalysis</i> , 2019 , 10, 643-652	2.7	3
13	Sonoelectrochemical degradation of ciprofloxacin in water on a Ti/BaTiO ₃ electrode. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107224	6.8	3
12	An Electrochemical Aptamer Biosensor for Bisphenol A on a Carbon Nanofibre-silver Nanoparticle Immobilisation Platform. <i>Electroanalysis</i> , 2021 , 33, 2053-2061	3	3
11	A poly (propylene imine) dendrimer [Carbon nanofiber based aptasensor for bisphenol A in water. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 901, 115783	4.1	2
10	Surface modified carbon nanomats provide cationic and anionic rectifier membranes in aqueous electrolyte media. <i>Electrochimica Acta</i> , 2020 , 354, 136750	6.7	2
9	The Pathway towards Photoelectrocatalytic Water Disinfection: Review and Prospects of a Powerful Sustainable Tool. <i>Catalysts</i> , 2021 , 11, 921	4	2
8	The application of exfoliated graphite electrode in the electrochemical degradation of p-nitrophenol in water. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2016 , 51, 571-8	2.3	1
7	Determination of Catechins from <i>Elephantorrhiza elephantina</i> and <i>Pentanisia prunelloides</i> using Voltammetry and UV spectroscopy. <i>Natural Product Communications</i> , 2014 , 9, 1934578X1400900	0.9	1
6	A Poly(Propylene Imine) Dendrimer and Carbon Black Modified Flexible Screen Printed Electrochemical Sensor for Lead and Cadmium Co-detection. <i>Electroanalysis</i> , 2020 , 32, 3009-3016	3	1
5	Enhanced photoelectrocatalytic degradation of diclofenac sodium using a system of Ag-BiVO ₄ /BiOI anode and Ag-BiOI cathode.. <i>Scientific Reports</i> , 2022 , 12, 4214	4.9	1
4	Electrochemical detection of nicotine at a carbon Nanofiber-Poly(amidoamine) dendrimer modified glassy carbon electrode.. <i>Chemosphere</i> , 2022 , 134961	8.4	1
3	Sulphate radical enhanced photoelectrochemical degradation of sulfamethoxazole on a fluorine doped tin oxide - copper(I) oxide photoanode. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 900, 115714	4.1	0
2	An electrochemical sensor for caffeine at a carbon nanofiber modified glassy carbon electrode. <i>Journal of Food Measurement and Characterization</i> , 2021 , 1, 1-10	2.8	0
1	Composite polyester membranes with embedded dendrimer hosts and bimetallic Fe/Ni nanoparticles: synthesis, characterisation and application to water treatment 2013 , 47-61		