

# Omotayo A Arotiba

## List of Publications by Year in Descending Order

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**Version:** 2024-04-25

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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	Sonoelectrochemical degradation of ciprofloxacin in water on a Ti/BaTiO <sub>3</sub> electrode. <i>Journal of Environmental Chemical Engineering</i> , <b>2022</b> , 10, 107224	6.8	3
105	Enhanced photoelectrocatalytic degradation of diclofenac sodium using a system of Ag-BiVO <sub>4</sub> /BiOI anode and Ag-BiOI cathode.. <i>Scientific Reports</i> , <b>2022</b> , 12, 4214	4.9	1
104	Electrochemical detection of nicotine at a carbon Nanofiber-Poly(amidoamine) dendrimer modified glassy carbon electrode.. <i>Chemosphere</i> , <b>2022</b> , 134961	8.4	1
103	Combined Electro-Fenton and Anodic Oxidation Processes at a Sub-Stoichiometric Titanium Oxide (Ti <sub>4</sub> O <sub>7</sub> ) Ceramic Electrode for the Degradation of Tetracycline in Water. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 2772	3	4
102	A poly (propylene imine) dendrimer [Carbon nanofiber based aptasensor for bisphenol A in water. <i>Journal of Electroanalytical Chemistry</i> , <b>2021</b> , 901, 115783	4.1	2
101	Microscale Ionic Diodes: An Overview. <i>Electroanalysis</i> , <b>2021</b> , 33, 1398-1418	3	5
100	A Silver-Loaded Exfoliated Graphite Nanocomposite Anti-Fouling Electrochemical Sensor for Bisphenol A in Thermal Paper Samples. <i>ACS Omega</i> , <b>2021</b> , 6, 9401-9409	3.9	7
99	Perovskite Oxide-Based Materials for Photocatalytic and Photoelectrocatalytic Treatment of Water. <i>Frontiers in Chemistry</i> , <b>2021</b> , 9, 634630	5	8
98	The application of FTO-CuO/AgPO heterojunction in the photoelectrochemical degradation of emerging pharmaceutical pollutant under visible light irradiation. <i>Chemosphere</i> , <b>2021</b> , 266, 129231	8.4	9
97	An Electrochemical Aptamer Biosensor for Bisphenol A on a Carbon Nanofibre-silver Nanoparticle Immobilisation Platform. <i>Electroanalysis</i> , <b>2021</b> , 33, 2053-2061	3	3
96	The Pathway towards Photoelectrocatalytic Water Disinfection: Review and Prospects of a Powerful Sustainable Tool. <i>Catalysts</i> , <b>2021</b> , 11, 921	4	2
95	Photoelectrochemical Degradation of Organic Pollutants on a La <sup>3+</sup> Doped BiFeO <sub>3</sub> Perovskite. <i>Catalysts</i> , <b>2021</b> , 11, 1069	4	5
94	Photoelectrocatalysis of paracetamol on PdZnO/ N-doped carbon nanofibers electrode. <i>Applied Materials Today</i> , <b>2021</b> , 24, 101129	6.6	7
93	Sulphate radical enhanced photoelectrochemical degradation of sulfamethoxazole on a fluorine doped tin oxide - copper(I) oxide photoanode. <i>Journal of Electroanalytical Chemistry</i> , <b>2021</b> , 900, 115714	4.1	0
92	Flexible Polyester Screen-printed Electrode Modified with Carbon Nanofibers for the Electrochemical Aptasensing of Cadmium (II). <i>Electroanalysis</i> , <b>2020</b> , 32, 2650-2658	3	7
91	Enhancement of hydrogen peroxide production by electrochemical reduction of oxygen on carbon nanotubes modified with fluorine. <i>Chemosphere</i> , <b>2020</b> , 259, 127423	8.4	21
90	Solar-Light-Responsive Titanium-Sheet-Based Carbon Nanoparticles/B-BiVO <sub>4</sub> /WO <sub>3</sub> Photoanode for the Photoelectrocatalytic Degradation of Orange II Dye Water Pollutant. <i>ACS Omega</i> , <b>2020</b> , 5, 4743-4750	3.9	15

89	Towards visible light driven photoelectrocatalysis for water treatment: Application of a FTO/BiVO/AgS heterojunction anode for the removal of emerging pharmaceutical pollutants. <i>Scientific Reports</i> , <b>2020</b> , 10, 5348	4.9	27
88	An AC-driven desalination/salination system based on a Nafion cationic rectifier. <i>Desalination</i> , <b>2020</b> , 480, 114351	10.3	10
87	Electro-Fenton and photoelectro-Fenton degradation of sulfamethazine using an active gas diffusion electrode without aeration. <i>Chemosphere</i> , <b>2020</b> , 250, 126177	8.4	22
86	Cu <sub>2</sub> O on anodised TiO <sub>2</sub> nanotube arrays: A heterojunction photoanode for visible light assisted electrochemical degradation of pharmaceuticals in water. <i>Electrochimica Acta</i> , <b>2020</b> , 340, 135944	6.7	43
85	Visible light driven photoelectrocatalytic semiconductor heterojunction anodes for water treatment applications. <i>Current Opinion in Electrochemistry</i> , <b>2020</b> , 22, 25-34	7.2	22
84	Electrochemical aptasensing of cadmium (II) on a carbon black-gold nano-platform. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 858, 113796	4.1	17
83	Switching Anionic and Cationic Semipermeability in Partially Hydrolyzed Polyacrylonitrile: A pH-Tunable Ionic Rectifier. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 3214-3224	9.5	9
82	Solar photoelectrocatalytic degradation of ciprofloxacin at a FTO/BiVO <sub>4</sub> /MnO <sub>2</sub> anode: Kinetics, intermediate products and degradation pathway studies. <i>Journal of Environmental Chemical Engineering</i> , <b>2020</b> , 8, 103607	6.8	41
81	A Poly(Propylene Imine) Dendrimer and Carbon Black Modified Flexible Screen Printed Electrochemical Sensor for Lead and Cadmium Co-detection. <i>Electroanalysis</i> , <b>2020</b> , 32, 3009-3016	3	1
80	Coupling cathodic electro-fenton with anodic photo-electrochemical oxidation: A feasibility study on the mineralization of paracetamol. <i>Journal of Environmental Chemical Engineering</i> , <b>2020</b> , 8, 104394	6.8	25
79	CuO as an emerging semiconductor in photocatalytic and photoelectrocatalytic treatment of water contaminated with organic substances: a review.. <i>RSC Advances</i> , <b>2020</b> , 10, 36514-36525	3.7	16
78	Bismuth vanadate in photoelectrocatalytic water treatment systems for the degradation of organics: A review on recent trends. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 878, 114724	4.1	14
77	Surface modified carbon nanomats provide cationic and anionic rectifier membranes in aqueous electrolyte media. <i>Electrochimica Acta</i> , <b>2020</b> , 354, 136750	6.7	2
76	Photocatalytic degradation of ciprofloxacin and sulfamethoxazole on a carbon nanodot doped tungsten trioxide: degradation product study. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , <b>2020</b> , 131, 453-470	1.6	5
75	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> , <b>2020</b> , 560, 208-212	9.3	269
74	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> , <b>2019</b> , 97, 105994	3.4	11
73	Carbon Nanofibers Provide a Cationic Rectifier Material: Specific Electrolyte Effects, Bipolar Reactivity, and Prospect for Desalination. <i>ChemElectroChem</i> , <b>2019</b> , 6, 3145-3153	4.3	6
72	Interrogating solar photoelectrocatalysis on an exfoliated graphite-BiVO <sub>4</sub> /ZnO composite electrode towards water treatment.. <i>RSC Advances</i> , <b>2019</b> , 9, 16586-16595	3.7	21

71	An Exfoliated Graphite-Bismuth Vanadate Composite Photoanode for the Photoelectrochemical Degradation of Acid Orange 7 Dye. <i>Electrocatalysis</i> , <b>2019</b> , 10, 429-435	2.7	11
70	An aptasensor for arsenic on a carbon-gold bi-nanoparticle platform. <i>Sensing and Bio-Sensing Research</i> , <b>2019</b> , 24, 100280	3.3	16
69	An Exfoliated Graphite-Based Electrochemical Immunosensor on a Dendrimer/Carbon Nanodot Platform for the Detection of Carcinoembryonic Antigen Cancer Biomarker. <i>Biosensors</i> , <b>2019</b> , 9,	5.9	16
68	Visible light driven photoelectrocatalysis on a FTO/BiVO <sub>4</sub> /BiOI anode for water treatment involving emerging pharmaceutical pollutants. <i>Electrochimica Acta</i> , <b>2019</b> , 307, 285-292	6.7	55
67	Voltammetric Determination of Pb(II) Ions at a Modified Kaolinite-Carbon Paste Electrode. <i>Electrocatalysis</i> , <b>2019</b> , 10, 643-652	2.7	3
66	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> , <b>2019</b> , 554, 603-610	9.3	182
65	Carboxymethyl cellulose thiol-imprinted polymers: Synthesis, characterization and selective Hg(II) adsorption. <i>Journal of Environmental Sciences</i> , <b>2019</b> , 79, 280-296	6.4	36
64	Synthesis, swelling and adsorption studies of a pH-responsive sodium alginate/poly(acrylic acid) superabsorbent hydrogel. <i>Polymer Bulletin</i> , <b>2018</b> , 75, 4587-4606	2.4	42
63	Cationic diodes by hot-pressing of Fumasep FKS-30 ionomer film onto a microhole in polyethylene terephthalate (PET). <i>Journal of Electroanalytical Chemistry</i> , <b>2018</b> , 815, 114-122	4.1	9
62	Synthesis, characterization and adsorption studies of an acrylic acid-grafted sodium alginate-based TiO <sub>2</sub> hydrogel nanocomposite. <i>Adsorption Science and Technology</i> , <b>2018</b> , 36, 458-477	3.6	50
61	Laccase-immobilized dendritic nanofibrous membranes as a novel approach towards the removal of bisphenol A. <i>Environmental Technology (United Kingdom)</i> , <b>2018</b> , 39, 392-404	2.6	30
60	Recent trend in visible-light photoelectrocatalytic systems for degradation of organic contaminants in water/wastewater. <i>Environmental Science: Water Research and Technology</i> , <b>2018</b> , 4, 1389-1411	4.2	73
59	Photoelectrocatalytic application of palladium decorated zinc oxide-expanded graphite electrode for the removal of 4-nitrophenol: experimental and computational studies.. <i>RSC Advances</i> , <b>2018</b> , 8, 10253-10266	3.7	15
58	A Dendrimer Supported Electrochemical Immunosensor for the Detection of Alpha-feto protein $\alpha$ Cancer Biomarker. <i>Electroanalysis</i> , <b>2018</b> , 30, 31-37	3	12
57	An alpha-fetoprotein electrochemical immunosensor based on a carbon/gold bi-nanoparticle platform. <i>Analytical Methods</i> , <b>2018</b> , 10, 5649-5658	3.2	14
56	An Electrochemical Cholesterol Biosensor Based on A CdTe/CdSe/ZnSe Quantum Dots-Poly (Propylene Imine) Dendrimer Nanocomposite Immobilisation Layer. <i>Sensors</i> , <b>2018</b> , 18,	3.8	23
55	Application of a Polypyrrole/Carboxy Methyl Cellulose Ion Imprinted Polymer in the Electrochemical Detection of Mercury in Water. <i>Electroanalysis</i> , <b>2018</b> , 30, 2612-2619	3	10
54	Expanded graphite supported p-n MoS <sub>2</sub> -SnO <sub>2</sub> heterojunction nanocomposite electrode for enhanced photo-electrocatalytic degradation of a pharmaceutical pollutant. <i>Journal of Electroanalytical Chemistry</i> , <b>2018</b> , 827, 193-203	4.1	38

53	Towards cancer diagnostics - an Hfeto protein electrochemical immunosensor on a manganese(iv) oxide/gold nanocomposite immobilisation layer.. <i>RSC Advances</i> , <b>2018</b> , 8, 30683-30691	3.7	7
52	Electrochemical Detection of 2,4-Dichlorophenol on a Ternary Composite Electrode of Diamond, Graphene, and Polyaniline. <i>ChemElectroChem</i> , <b>2017</b> , 4, 1074-1080	4.3	11
51	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> , <b>2017</b> , 317, 290-301	14.7	63
50	Epichlorohydrin crosslinked carboxymethyl cellulose-ethylenediamine imprinted polymer for the selective uptake of Cr(VI). <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 101, 837-844	7.9	35
49	Nanogold modified glassy carbon electrode for the electrochemical detection of arsenic in water. <i>Russian Journal of Electrochemistry</i> , <b>2017</b> , 53, 170-177	1.2	26
48	Electrochemical detection of selenium using glassy carbon electrode modified with reduced graphene oxide. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2017</b> , 97, 534-547	1.8	8
47	Sol-gel derived xanthan gum/silica nanocomposite-a highly efficient cationic dyes adsorbent in aqueous system. <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 103, 596-604	7.9	34
46	Photoelectrocatalytic water treatment systems: degradation, kinetics and intermediate products studies of sulfamethoxazole on a TiO <sub>2</sub> -exfoliated graphite electrode. <i>RSC Advances</i> , <b>2017</b> , 7, 40571-40580	3.7	38
45	Photocatalytic application of Pd-ZnO-exfoliated graphite nanocomposite for the enhanced removal of acid orange 7 dye in water. <i>Solid State Sciences</i> , <b>2017</b> , 74, 118-124	3.4	9
44	Ethylenediamine functionalized carbon nanoparticles: synthesis, characterization, and evaluation for cadmium removal from water. <i>RSC Advances</i> , <b>2017</b> , 7, 34226-34235	3.7	11
43	A polyamidoamine dendrimer-streptavidin supramolecular architecture for biosensor development. <i>Bioelectrochemistry</i> , <b>2017</b> , 118, 14-18	5.6	10
42	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> , <b>2016</b> , 10, 27-33	3.3	29
41	An Exfoliated Graphite Based Electrochemical Sensor for As(III) in Water. <i>Electroanalysis</i> , <b>2016</b> , 28, 1462-1469	3.469	19
40	Photoelectrochemical degradation of eosin yellowish dye on exfoliated graphite/ZnO nanocomposite electrode. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 592-598	2.1	12
39	Electrochemical Degradation of an Anthraquinonic Dye on an Expanded Graphite-Diamond Composite Electrode. <i>Electrocatalysis</i> , <b>2016</b> , 7, 132-139	2.7	20
38	Photocatalytic degradation of acid blue 74 in water using Ag <sub>2</sub> O/ZnO nanostructures anchored on graphene oxide. <i>Solid State Sciences</i> , <b>2016</b> , 51, 66-73	3.4	35
37	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> , <b>2016</b> , 51, 571-8	2.3	1
36	Dealing with interference challenge in the electrochemical detection of As(III) A complexometric masking approach. <i>Electrochemistry Communications</i> , <b>2016</b> , 64, 18-20	5.1	24

35	Electrochemical co-detection of As(III), Hg(II) and Pb(II) on a bismuth modified exfoliated graphite electrode. <i>Talanta</i> , <b>2016</b> , 153, 99-106	6.2	56
34	Development of a sodium alginate-based organic/inorganic superabsorbent composite hydrogel for adsorption of methylene blue. <i>Carbohydrate Polymers</i> , <b>2016</b> , 153, 34-46	10.3	217
33	Photoelectrochemical degradation of orange II dye in wastewater at a silver/zinc oxide/reduced graphene oxide nanocomposite photoanode. <i>RSC Advances</i> , <b>2016</b> , 6, 52868-52877	3.7	22
32	Synthesis, Characterization, and Application of Exfoliated Graphite/Zirconium Nanocomposite Electrode for the Photoelectrochemical Degradation of Organic Dye in Water. <i>Electrocatalysis</i> , <b>2015</b> , 6, 390-397	2.7	10
31	Electroanalysis of selenium in water on an electrodeposited gold-nanoparticle modified glassy carbon electrode. <i>Journal of Electroanalytical Chemistry</i> , <b>2015</b> , 758, 7-11	4.1	18
30	Exfoliated graphite/titanium dioxide nanocomposites for photodegradation of eosin yellow. <i>Applied Surface Science</i> , <b>2014</b> , 300, 159-164	6.7	19
29	Functionalized carbon nanoparticles, blacks and soots as electron-transfer building blocks and conduits. <i>Chemistry - an Asian Journal</i> , <b>2014</b> , 9, 1226-41	4.5	34
28	Voltammetric detection of arsenic on a bismuth modified exfoliated graphite electrode. <i>Electrochimica Acta</i> , <b>2014</b> , 128, 48-53	6.7	56
27	Zirconia-poly(propylene imine) dendrimer nanocomposite based electrochemical urea biosensor. <i>Enzyme and Microbial Technology</i> , <b>2014</b> , 66, 48-55	3.8	29
26	Determination of Catechins from <i>Elephantorrhiza elephantina</i> and <i>Pentanisia prunelloides</i> using Voltammetry and UV spectroscopy. <i>Natural Product Communications</i> , <b>2014</b> , 9, 1934578X1400900	0.9	1
25	Cyclodextrin-dendrimer functionalized polysulfone membrane for the removal of humic acid in water. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 130, n/a-n/a	2.9	4
24	Photoelectrochemical oxidation of p-nitrophenol on an expanded graphite-TiO <sub>2</sub> electrode. <i>Photochemical and Photobiological Sciences</i> , <b>2013</b> , 12, 1091-102	4.2	19
23	Synthesis, characterisation and application of an exfoliated graphite/diamond composite electrode in the electrochemical degradation of trichloroethylene. <i>RSC Advances</i> , <b>2013</b> , 3, 24473	3.7	17
22	Chitosan-based nanomaterials: a state-of-the-art review. <i>International Journal of Biological Macromolecules</i> , <b>2013</b> , 59, 46-58	7.9	581
21	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> , <b>2013</b> , 15, 1	2.3	10
20	Nanostructured $\beta$ -Cyclodextrin-Hyperbranched Polyethyleneimine (ECD-HPEI) Embedded in Polysulfone Membrane for the Removal of Humic Acid from Water. <i>Separation Science and Technology</i> , <b>2013</b> , 48, 2724-2734	2.5	10
19	Composite polyester membranes with embedded dendrimer hosts and bimetallic Fe/Ni nanoparticles: synthesis, characterisation and application to water treatment <b>2013</b> , 47-61		
18	Synthesis and characterisation of generation 2 and 3 poly(propylene imine) dendrimer capped NiFe nanoalloy. <i>Materials Letters</i> , <b>2012</b> , 68, 324-326	3.3	10

17	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> , <b>2012</b> , 50-52, 127-131	3	18
16	An Exfoliated Graphite-Based Bisphenol A Electrochemical Sensor. <i>Sensors</i> , <b>2012</b> , 12, 11601-11611	3.8	45
15	Overoxidized Polypyrrole Incorporated with Gold Nanoparticles as Platform for Impedimetric Anti-Transglutaminase Immunosensor. <i>Analytical Letters</i> , <b>2011</b> , 44, 1956-1966	2.2	6
14	Green synthesis and stabilization of gold nanoparticles in chemically modified chitosan matrices. <i>International Journal of Biological Macromolecules</i> , <b>2011</b> , 48, 682-7	7.9	44
13	Electrochemical detection and removal of lead in water using poly(propylene imine) modified re-compressed exfoliated graphite electrodes. <i>Journal of Applied Electrochemistry</i> , <b>2011</b> , 41, 1389-1396	2.6	25
12	Synthesis and characterization of poly(propylene imine) dendrimer [Polypyrrole conducting star copolymer. <i>Journal of Electroanalytical Chemistry</i> , <b>2011</b> , 652, 18-25	4.1	16
11	Electrochemical aptasensor for endocrine disrupting 17 $\beta$ -estradiol based on a poly(3,4-ethylenedioxythiophene)-gold nanocomposite platform. <i>Sensors</i> , <b>2010</b> , 10, 9872-90	3.8	101
10	Electrochemical nitrite nanosensor developed with amine- and sulphate-functionalised polystyrene latex beads self-assembled on polyaniline. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 4274-4280	6.7	28
9	Electrochemical impedimetry of electrodeposited poly(propylene imine) dendrimer monolayer. <i>Journal of Electroanalytical Chemistry</i> , <b>2010</b> , 638, 287-292	4.1	18
8	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> , <b>2010</b> , 643, 77-81	4.1	32
7	Electrochemical detection of glyphosate herbicide using horseradish peroxidase immobilized on sulfonated polymer matrix. <i>Bioelectrochemistry</i> , <b>2009</b> , 75, 117-23	5.6	70
6	Microsomal cytochrome P450-3A4 (CYP3A4) nanobiosensor for the determination of 2,4-dichlorophenol An endocrine disruptor compound. <i>Electrochimica Acta</i> , <b>2009</b> , 54, 1925-1931	6.7	32
5	Electrochemical Immunosensor Based on Polythionine/Gold Nanoparticles for the Determination of Aflatoxin B <sub>1</sub> <i>Sensors</i> , <b>2008</b> , 8, 8262-8274	3.8	93
4	An Electrochemical DNA Biosensor Developed on a Nanocomposite Platform of Gold and Poly(propyleneimine) Dendrimer. <i>Sensors</i> , <b>2008</b> , 8, 6791-6809	3.8	36
3	Synthesis and characterization of poly (2-hydroxyethyl methacrylate)-polyaniline based hydrogel composites. <i>Reactive and Functional Polymers</i> , <b>2008</b> , 68, 1239-1244	4.6	41
2	An electrochemical DNA biosensor developed on novel multinuclear nickel(II) salicylaldimine metallo-dendrimer platform. <i>Electrochimica Acta</i> , <b>2007</b> , 53, 1689-1696	6.7	31
1	An electrochemical sensor for caffeine at a carbon nanofiber modified glassy carbon electrode. <i>Journal of Food Measurement and Characterization</i> , <b>1</b>	2.8	0