

Jonathan O Okonkwo

List of Publications by Year in descending order

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92
papers

2,503
citations

172207

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233125

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docs citations

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times ranked

3161
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent approaches to improving selectivity and sensitivity of enzyme-based biosensors for organophosphorus pesticides: A review. <i>Talanta</i> , 2016, 155, 289-304.	2.9	278
2	A novel adsorbent for heavy metal remediation in aqueous environments. <i>International Journal of Environmental Science and Technology</i> , 2009, 6, 425-434.	1.8	124
3	Polybrominated diphenyl ethers (PBDEs) in leachates from selected landfill sites in South Africa. <i>Waste Management</i> , 2009, 29, 96-102.	3.7	97
4	Soil concentrations of polybrominated diphenyl ethers and trace metals from an electronic waste dump site in the Greater Accra Region, Ghana: Implications for human exposure. <i>Ecotoxicology and Environmental Safety</i> , 2017, 137, 247-255.	2.9	84
5	A review of the application of agricultural wastes as precursor materials for the adsorption of per- and polyfluoroalkyl substances: A focus on current approaches and methodologies. <i>Environmental Technology and Innovation</i> , 2018, 9, 100-114.	3.0	77
6	A review of sources, levels, and toxicity of polybrominated diphenyl ethers (PBDEs) and their transformation and transport in various environmental compartments. <i>Environmental Reviews</i> , 2016, 24, 253-273.	2.1	72
7	An amperometric biosensor based on horseradish peroxidase immobilized onto maize tassel-multi-walled carbon nanotubes modified glassy carbon electrode for determination of heavy metal ions in aqueous solution. <i>Enzyme and Microbial Technology</i> , 2014, 56, 28-34.	1.6	65
8	Occurrence and environmental levels of triclosan and triclocarban in selected wastewater treatment plants in Gauteng Province, South Africa. <i>Emerging Contaminants</i> , 2017, 3, 107-114.	2.2	63
9	The impact of a Wastewater Treatment Works in Southern Gauteng, South Africa on efavirenz and nevirapine discharges into the aquatic environment. <i>Emerging Contaminants</i> , 2017, 3, 95-106.	2.2	55
10	Application of maize tassel for the removal of Pb, Se, Sr, U and V from borehole water contaminated with mine wastewater in the presence of alkaline metals. <i>Journal of Hazardous Materials</i> , 2009, 164, 884-891.	6.5	53
11	Brominated flame retardants: sources, distribution, exposure pathways, and toxicity. <i>Environmental Reviews</i> , 2011, 19, 238-253.	2.1	53
12	Recent Advances in Polymeric Materials Used as Electron Mediators and Immobilizing Matrices in Developing Enzyme Electrodes. <i>Sensors</i> , 2012, 12, 923-953.	2.1	53
13	Physico-chemical characteristics and pollution levels of heavy metals in the rivers in Thohoyandou, South Africa. <i>Journal of Hydrology</i> , 2005, 308, 122-127.	2.3	51
14	A review of sources, fate, levels, toxicity, exposure and transformations of organophosphorus flame-retardants and plasticizers in the environment. <i>Emerging Contaminants</i> , 2020, 6, 345-366.	2.2	49
15	Improved electro-oxidation of triclosan at nano-zinc oxide-multiwalled carbon nanotube modified glassy carbon electrode. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 898-905.	4.0	48
16	Concentration profiles, source apportionment and risk assessment of polycyclic aromatic hydrocarbons (PAHs) in dumpsite soils from Agbogbloshie e-waste dismantling site, Accra, Ghana. <i>Environmental Science and Pollution Research</i> , 2016, 23, 10883-10894.	2.7	44
17	A review on sources of brominated flame retardants and routes of human exposure with emphasis on polybrominated diphenyl ethers. <i>Environmental Reviews</i> , 2010, 18, 239-254.	2.1	40
18	Targeted and non-target screening of persistent organic pollutants and organophosphorus flame retardants in leachate and sediment from landfill sites in Gauteng Province, South Africa. <i>Science of the Total Environment</i> , 2019, 653, 1231-1239.	3.9	39

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19	Improved derivatisation methods for the determination of free cyanide and cyanate in mine effluent. <i>Journal of Hazardous Materials</i> , 2008, 158, 196-201.	6.5	37
20	Concentration of novel brominated flame retardants and HBCD in leachates and sediments from selected municipal solid waste landfill sites in Gauteng Province, South Africa. <i>Waste Management</i> , 2015, 43, 300-306.	3.7	37
21	Distribution, exposure pathways, sources and toxicity of nonylphenol and nonylphenol ethoxylates in the environment. <i>Water S A</i> , 2017, 43, 529.	0.2	37
22	A Novel Hydrogen Peroxide Biosensor Based on Adsorption of Horseradish Peroxidase onto a Nanobiomaterial Composite Modified Glassy Carbon Electrode. <i>Electroanalysis</i> , 2013, 25, 1946-1954.	1.5	36
23	Potential application of activated carbon from maize tassel for the removal of heavy metals in water. <i>Physics and Chemistry of the Earth</i> , 2012, 50-52, 104-110.	1.2	35
24	Determination of selected phthalate esters compounds in water and sediments by capillary gas chromatography and flame ionization detector. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2013, 48, 1365-1377.	0.9	34
25	Concentrations of Polybrominated Diphenyl Ethers in Sediments from Jukskei River, Gauteng, South Africa. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2012, 88, 461-466.	1.3	33
26	Horseradish peroxidase biosensor based on maize tassel MWCNTs composite for cadmium detection. <i>Sensors and Actuators B: Chemical</i> , 2014, 193, 515-521.	4.0	33
27	Levels of polybrominated diphenyl ethers in indoor dust and human exposure estimates from Makurdi, Nigeria. <i>Ecotoxicology and Environmental Safety</i> , 2015, 120, 394-399.	2.9	32
28	Alkylphenol ethoxylates and brominated flame retardants in water, fish (carp) and sediment samples from the Vaal River, South Africa. <i>Environmental Science and Pollution Research</i> , 2015, 22, 11922-11929.	2.7	32
29	Concentrations of polybromobiphenyls and polybromodiphenyl ethers in home dust: Relevance to socio-economic status and human exposure rate. <i>Science of the Total Environment</i> , 2014, 470-471, 1250-1256.	3.9	30
30	Levels, distributions, and ecological risk assessments of polybrominated diphenyl ethers and alternative flame retardants in river sediments from Vaal River, South Africa. <i>Environmental Science and Pollution Research</i> , 2019, 26, 7156-7163.	2.7	28
31	Occurrence, distribution and ecological risk assessment of organophosphorus flame retardants and plasticizers in sediment samples along the Vaal River catchment, South Africa. <i>Emerging Contaminants</i> , 2019, 5, 173-178.	2.2	28
32	Analysis of major congeners of polybromobiphenyls and polybromodiphenyl ethers in office dust using high resolution gas chromatography-mass spectrometry. <i>Chemosphere</i> , 2012, 87, 1070-1075.	4.2	27
33	DDT, DDE and DDD in Human Milk from South Africa. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2008, 81, 348-354.	1.3	26
34	Concentrations of lead in cosmetics commonly used in South Africa. <i>Toxicological and Environmental Chemistry</i> , 2012, 94, 70-77.	0.6	26
35	Polybrominated diphenyl ethers in car dust in Nigeria: Concentrations and implications for non-dietary human exposure. <i>Microchemical Journal</i> , 2015, 123, 99-104.	2.3	26
36	Seasonal variations and the influence of geomembrane liners on the levels of PBDEs in landfill leachates, sediment and groundwater in Gauteng Province, South Africa. <i>Emerging Contaminants</i> , 2017, 3, 76-84.	2.2	24

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37	Trace metals, anions and polybromodiphenyl ethers in settled indoor dust and their association. <i>Environmental Science and Pollution Research</i> , 2013, 20, 4895-4905.	2.7	20
38	Distribution of polybrominated diphenyl ethers and dust particle size fractions adherent to skin in indoor dust, Pretoria, South Africa. <i>Environmental Science and Pollution Research</i> , 2014, 21, 4376-4386.	2.7	20
39	Ecological risk assessment of organochlorine pesticides and polychlorinated biphenyls in water and surface sediment samples from Akaki River catchment, central Ethiopia. <i>Emerging Contaminants</i> , 2020, 6, 396-404.	2.2	20
40	Influence of physicochemical and chemical parameters on polybrominated diphenyl ethers in selected landfill leachates, sediments and river sediments from Gauteng, South Africa. <i>Environmental Science and Pollution Research</i> , 2015, 22, 2145-2154.	2.7	19
41	A review of brominated flame retardants in the environment with emphasis on atmospheric levels, knowledge and information gaps in the African continent. <i>Atmospheric Pollution Research</i> , 2017, 8, 767-780.	1.8	19
42	Optimization and Simultaneous Determination of Alkyl Phenol Ethoxylates and Brominated Flame Retardants in Water after SPE and Heptafluorobutyric Anhydride Derivatization followed by GC/MS. <i>Chromatographia</i> , 2012, 75, 1165-1176.	0.7	18
43	<i>Aspalathus linearis</i> (Rooibos tea) as potential phytoremediation agent: a review on tolerance mechanisms for aluminum uptake. <i>Environmental Reviews</i> , 2013, 21, 85-92.	2.1	18
44	Occurrence and distribution of tetrabromobisphenol A and its derivative in river sediments from Vaal River Catchment, South Africa. <i>Emerging Contaminants</i> , 2017, 3, 121-126.	2.2	18
45	A comparative study of modified and unmodified maize tassels for removal of selected trace metals in contaminated water. <i>Toxicological and Environmental Chemistry</i> , 2012, 94, 20-39.	0.6	17
46	Steam activation, characterisation and adsorption studies of activated carbon from maize tassels. <i>Chemistry and Ecology</i> , 2014, 30, 473-490.	0.6	17
47	The occurrence of brominated flame retardants in the atmosphere of Gauteng Province, South Africa using polyurethane foam passive air samplers and assessment of human exposure. <i>Environmental Pollution</i> , 2018, 242, 1894-1903.	3.7	17
48	Maize tassel-modified carbon paste electrode for voltammetric determination of Cu(II). <i>Environmental Monitoring and Assessment</i> , 2014, 186, 4807-4817.	1.3	16
49	Electrodeposition of zinc oxide nanoparticles on multiwalled carbon nanotube-modified electrode for determination of caffeine in wastewater effluent. <i>International Journal of Environmental Analytical Chemistry</i> , 2017, 97, 623-636.	1.8	16
50	Determination of legacy and novel brominated flame retardants in dust from end of life office equipment and furniture from Pretoria, South Africa. <i>Science of the Total Environment</i> , 2018, 622-623, 275-281.	3.9	16
51	Preliminary screening of polybrominated diphenyl ethers (PBDEs), hexabromocyclododecane (HBCDD) and tetrabromobisphenol A (TBBPA) flame retardants in landfill leachate. <i>Environmental Monitoring and Assessment</i> , 2017, 189, 418.	1.3	15
52	Initiatives to combat mercury use in artisanal small-scale gold mining: A review on issues and challenges. <i>Environmental Reviews</i> , 2017, 25, 218-224.	2.1	15
53	Distribution and ecological risk assessment of trace metals in surface sediments from Akaki River catchment and Aba Samuel reservoir, Central Ethiopia. <i>Environmental Systems Research</i> , 2018, 7, .	1.5	15
54	Arsenic Status and Distribution in Soils at Disused Cattle Dip in South Africa. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2007, 79, 380-383.	1.3	14

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55	Recent advances in sorbents applications and techniques used for solid-phase extraction of atrazine and its metabolites deisopropylatrazine and deethylatrazine: a review. <i>International Journal of Environmental Analytical Chemistry</i> , 2019, 99, 1017-1068.	1.8	14
56	Status of short-chain chlorinated paraffins in matrices and research gap priorities in Africa: a review. <i>Environmental Science and Pollution Research</i> , 2021, 28, 52844-52861.	2.7	14
57	Total Petroleum Hydrocarbons and Trace Metals in Street Dusts from Tshwane Metropolitan Area, South Africa. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2006, 41, 2789-2798.	0.9	13
58	An integrated method for the simultaneous determination of alkylphenol ethoxylates and brominated flame retardants in sewage sludge samples by ultrasonic-assisted extraction, solid phase clean-up, and GC-MS analysis. <i>Microchemical Journal</i> , 2015, 123, 230-236.	2.3	13
59	Physicochemical characterization of maize tassel as an adsorbent. I. Surface texture, microstructure, and thermal stability. <i>Journal of Applied Polymer Science</i> , 2009, 111, 1923-1930.	1.3	12
60	Voltammetric sensing of nitrite in aqueous solution using titanium dioxide anchored multiwalled carbon nanotubes. <i>Ionics</i> , 2018, 24, 2489-2498.	1.2	12
61	Assessment of Lead Exposure in Thohoyandou, South Africa. <i>The Environmentalist</i> , 2004, 24, 171-178.	0.7	11
62	An improved activated carbon method to quantify dichlorodiphenyltrichloroethane (DDT) in surface water. <i>Environmental Chemistry Letters</i> , 2007, 5, 121-123.	8.3	11
63	Determination of DDT and Metabolites in Surface Water and Sediment Using LLE, SPE, ACE and SE. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2009, 83, 885-891.	1.3	11
64	Mercury concentrations in eggshells of the Southern Ground-Hornbill (<i>Bucorvus leadbeateri</i>) and Wattled Crane (<i>Bucoranus carunculatus</i>) in South Africa. <i>Ecotoxicology and Environmental Safety</i> , 2015, 114, 61-66.	2.9	11
65	Determination of mercury and its fractionation products in samples from legacy use of mercury amalgam in gold processing in Randfontein, South Africa. <i>Emerging Contaminants</i> , 2016, 2, 157-165.	2.2	11
66	Assessment of trace metals in water samples and tissues of African catfish (<i>Clarias gariepinus</i>) from the Akaki River Catchment and the Aba Samuel Reservoir, central Ethiopia. <i>African Journal of Aquatic Science</i> , 2019, 44, 389-399.	0.5	11
67	Polybrominated diphenyl ethers (PBDEs) in eggshells of the Southern Ground-Hornbill (<i>Bucorvus</i>) Tj ETQq1 1 0.784314 rgBT /Overloc 284-292.	4.2	10
68	Propensity of <i>Tagetes erecta</i> L., a Medicinal Plant Commonly Used in Diabetes Management, to Accumulate Perfluoroalkyl Substances. <i>Toxics</i> , 2019, 7, 18.	1.6	10
69	Kinetics, Isotherm, and Thermodynamic Studies of the Adsorption Mechanism of PFOS and PFOA Using Inactivated and Chemically Activated Maize Tassel. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	1.1	10
70	Removal of per- and polyfluoroalkyl substances from aqueous media using synthesized silver nanocomposite-activated carbons. <i>Journal of Environmental Health Science & Engineering</i> , 2021, 19, 217-236.	1.4	10
71	Biosorption of Pb(II) from aqueous solution using Rooibos shoot powder (RSP). <i>Desalination and Water Treatment</i> , 2016, 57, 5614-5622.	1.0	9
72	Influence of Gas Chromatographic Parameters on Determination of Decabromodiphenyl Ether. <i>Chromatographia</i> , 2011, 73, 965-973.	0.7	8

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73	Microwave-Assisted Synthesis and Characterization of an Agriculturally Derived Silver Nanocomposite and Its Derivatives. <i>Waste and Biomass Valorization</i> , 2020, 11, 2247-2259.	1.8	8
74	Improved derivatization protocol for simultaneous determination of alkylphenol ethoxylates and brominated flame retardants followed by gas chromatography-mass spectrometry analyses. <i>Water Science and Technology</i> , 2014, 69, 2389-2396.	1.2	7
75	Poly- and perfluoroalkyl substances (PFASs) in sediment samples from Roodeplaat and Hartbeespoort Dams, South Africa. <i>Emerging Contaminants</i> , 2020, 6, 367-375.	2.2	7
76	Legacy and novel brominated flame-retardants in different fish types from inland freshwaters of South Africa: levels, distribution and implications for human health. <i>International Journal of Environmental Health Research</i> , 2022, 32, 321-331.	1.3	7
77	Adsorption of cadmium from aqueous solution using Rooibos shoots as adsorbent. <i>Toxicological and Environmental Chemistry</i> , 2014, 96, 1452-1462.	0.6	6
78	Leachate seepage from landfill: a source of groundwater mercury contamination in South Africa. <i>Water S A</i> , 2019, 45, .	0.2	6
79	Distribution of total mercury in surface sediments and African catfish (<i>Clarias gariepinus</i>) from Akaki River catchment and Aba Samuel Reservoir, downstream to the mega-city Addis Ababa, Ethiopia. <i>Emerging Contaminants</i> , 2018, 4, 32-39.	2.2	5
80	Levels of polybrominated diphenyl ethers (PBDEs) in water and sediment from open city drains in Makurdi Metropolitan Area, North Central Nigeria. <i>Environmental Monitoring and Assessment</i> , 2021, 193, 244.	1.3	5
81	Determination of urinary lead in school children in Manzini, Swaziland, Southern Africa. <i>The Environmentalist</i> , 2001, 21, 205-209.	0.7	4
82	Organochlorine residues in maternal milk from inhabitants of the Thohoyandou area, South Africa. <i>Toxicological and Environmental Chemistry</i> , 2008, 90, 695-706.	0.6	4
83	Characterization of PM10 samples from Vanderbijlpark in South Africa. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2013, 48, 99-107.	0.9	4
84	Improved derivatization protocol for simultaneous determination of alkylphenol ethoxylates and brominated flame retardants followed by gas chromatography – mass spectrometry analyses. <i>Water S A</i> , 2015, 41, 189.	0.2	4
85	Poly- and perfluorinated substances in environmental water from the Hartbeespoort and Roodeplaat Dams, South Africa. <i>Water S A</i> , 2021, 47, .	0.2	4
86	Measurement of lead concentration in the hair of school children in the Manzini region, Swaziland. <i>International Journal of Environmental Studies</i> , 1999, 56, 419-428.	0.7	3
87	Alkylphenols and alkylphenol ethoxylates in dust from homes, offices and computer laboratories: Implication for personal exposure via inadvertent dust ingestion. <i>Emerging Contaminants</i> , 2017, 3, 127-131.	2.2	3
88	Batch equilibrium studies on the adsorptive capacity of powdered and pelleted maize tassel to remove PFOA and PFOS from aqueous medium. <i>Emerging Contaminants</i> , 2022, 8, 75-82.	2.2	3
89	Application of remote and ground sensing studies in the development of a typical groundwater monitoring programme. <i>International Journal of Environmental Studies</i> , 2007, 64, 207-220.	0.7	2
90	A Simplified Analytical Procedure for Simultaneous Determination of Alkylphenol Ethoxylates and Brominated Flame Retardants in Fish Tissue Samples from Vaal River, South Africa. <i>American Journal of Analytical Chemistry</i> , 2015, 06, 422-428.	0.3	2

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91	Determination of urinary iodine in school children of the Hhohho region in Swaziland. International Journal of Environmental Health Research, 1999, 9, 207-211.	1.3	1
92	Surface studies of a biomaterial for the development of a biosensor for the detection of trace metals. , 2011, , .		1