## Abubakr M Idris

List of Publications by Year in descending order

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236925 315739 2,306 111 25 38 citations h-index g-index papers 112 112 112 1377 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Combining multivariate analysis and geochemical approaches for assessing heavy metal level in sediments from Sudanese harbors along the Red Sea coast. Microchemical Journal, 2008, 90, 159-163.	4.5	141
2	Receptor model-based source apportionment and ecological risk of metals in sediments of an urban river in Bangladesh. Journal of Hazardous Materials, 2022, 423, 127030.	12.4	83
3	The Multifunctional Role of Herbal Products in the Management of Diabetes and Obesity: A Comprehensive Review. Molecules, 2022, 27, 1713.	3.8	79
4	Distribution of heavy metals in water and sediment of an urban river in a developing country: A probabilistic risk assessment. International Journal of Sediment Research, 2022, 37, 173-187.	3.5	70
5	Assessment of heavy metals pollution in Sudanese harbours along the Red Sea Coast. Microchemical Journal, 2007, 87, 104-112.	4.5	65
6	Capillary electrophoresis for the determination of norfloxacin and tinidazole in pharmaceuticals with multi-response optimization. Talanta, 2007, 72, 842-846.	<b>5.</b> 5	58
7	Assessment of heavy metal contamination in sediment at the newly established tannery industrial Estate in Bangladesh: A case study. Environmental Chemistry and Ecotoxicology, 2022, 4, 1-12.	9.1	57
8	Potentially toxic elements in street dust from an urban city of a developing country: ecological and probabilistic health risks assessment. Environmental Science and Pollution Research, 2021, 28, 57126-57148.	5.3	46
9	Hydrological distribution of physicochemical parameters and heavy metals in surface water and their ecotoxicological implications in the Bay of Bengal coast of Bangladesh. Environmental Science and Pollution Research, 2021, 28, 68585-68599.	5.3	46
10	Flowery In2MnSe4 Novel Electrocatalyst Developed via Anion Exchange Strategy for Efficient Water Splitting. Nanomaterials, 2022, 12, 2209.	4.1	46
11	Natural Bioactive Molecules: An Alternative Approach to the Treatment and Control of COVID-19. International Journal of Molecular Sciences, 2021, 22, 12638.	4.1	45
12	Polyphenols: A first evidence in the synergism and bioactivities. Food Reviews International, 2023, 39, 4419-4441.	8.4	45
13	Personal protective equipment (PPE) pollution in the Caspian Sea, the largest enclosed inland water body in the world. Science of the Total Environment, 2022, 824, 153771.	8.0	45
14	Contamination level and risk assessment of heavy metal deposited in street dusts in Khamees-Mushait city, Saudi Arabia. Human and Ecological Risk Assessment (HERA), 2020, 26, 495-511.	3.4	42
15	Macro marine litter survey of sandy beaches along the Cox's Bazar Coast of Bay of Bengal, Bangladesh: Land-based sources of solid litter pollution. Marine Pollution Bulletin, 2022, 174, 113246.	5.0	42
16	Potential toxic metals (PTMs) contamination in agricultural soils and foodstuffs with associated source identification and model uncertainty. Science of the Total Environment, 2021, 789, 147962.	8.0	38
17	Exploiting sequential injection analysis technique to automate on-line sample treatment and quantitative determination of morphine in human urine. Talanta, 2008, 77, 522-526.	5.5	36
18	An Overview of the Generations and Recent Versions of Flow Injection Techniques. Critical Reviews in Analytical Chemistry, 2010, 40, 150-158.	3.5	33

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19	Assessment of trace element toxicity in surface water of a fish breeding river in Bangladesh: a novel approach for ecological and health risk evaluation. Toxin Reviews, 2022, 41, 420-436.	3.4	31
20	Combining multivariate analysis and human risk indices for assessing heavy metal contents in muscle tissues of commercially fish from Southern Red Sea, Saudi Arabia. Environmental Science and Pollution Research, 2015, 22, 17012-17021.	5.3	30
21	Development of a stability-indicating capillary electrophoresis method for norfloxacin and its inactive decarboxylated degradant. Microchemical Journal, 2007, 87, 35-40.	4.5	29
22	Indicative properties measurements by SEM, SEM-EDX and XRD for initial homogeneity tests of new certified reference materials. Microchemical Journal, 2019, 146, 429-433.	4.5	29
23	Contamination and human health risk assessment of heavy metals in soil of a municipal solid waste dumpsite in Khamees-Mushait, Saudi Arabia. Toxin Reviews, 2021, 40, 102-115.	3.4	29
24	Road dust–driven elemental distribution in megacity Dhaka, Bangladesh: environmental, ecological, and human health risks assessment. Environmental Science and Pollution Research, 2022, 29, 22350-22371.	5.3	29
25	Levels of zinc, copper, cadmium, and lead in fruits and vegetables grown and consumed in Aseer Region, Saudi Arabia. Environmental Monitoring and Assessment, 2015, 187, 676.	2.7	28
26	A comprehensive assessment of heavy metal contamination in road dusts along a hectic national highway of Bangladesh: spatial distribution, sources of contamination, ecological and human health risks. Toxin Reviews, 2022, 41, 860-879.	3.4	28
27	Application of novel framework approach for prediction of nitrate concentration susceptibility in coastal multi-aquifers, Bangladesh. Science of the Total Environment, 2021, 801, 149811.	8.0	28
28	Bioaccumulation and health risk assessment of toxic metals in red algae in Sudanese Red Sea coast. Toxin Reviews, 2021, 40, 1327-1337.	3.4	27
29	Rapid inexpensive assay method for verapamil by spectrophotometric sequential injection analysis. Drug Testing and Analysis, 2011, 3, 380-386.	2.6	26
30	Synthesis, characterization, and application of a novel polymeric-bentonite-magnetite composite resin for water softening. Separation and Purification Technology, 2019, 224, 356-365.	7.9	26
31	A coupled novel framework for assessing vulnerability of water resources using hydrochemical analysis and data-driven models. Journal of Cleaner Production, 2022, 336, 130407.	9.3	26
32	Chemometric optimization of a SIA promethazine hydrochloride assay method. Microchemical Journal, 2006, 83, 7-13.	4.5	25
33	Development of a capillary electrophoresis method for the screening of human urine for multiple drugs of abuse. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2007, 856, 62-67.	2.3	25
34	Brown algae (Phaeophyta) for monitoring heavy metals at the Sudanese Red Sea coast. Applied Water Science, 2017, 7, 3817-3824.	5.6	25
35	PPE pollution in the terrestrial and aquatic environment of the Chittagong city area associated with the COVID-19 pandemic and concomitant health implications. Environmental Science and Pollution Research, 2022, 29, 27521-27533.	5.3	25
36	Plantâ∈"microbeâ∈"metal interactions for heavy metal bioremediation: a review. Crop and Pasture Science, 2022, 73, 181-201.	1.5	24

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37	Metal-Doped Graphitic Carbon Nitride Nanomaterials for Photocatalytic Environmental Applicationsâ€"A Review. Nanomaterials, 2022, 12, 1754.	4.1	24
38	On-line coupling of solid-phase extraction, derivatization reaction and spectrophotometry by sequential injection analysis: Application to trifluoperazine assay in human urine. Journal of Pharmacological and Toxicological Methods, 2007, 56, 330-335.	0.7	23
39	Flow Injection, Overlooked Techniques in Forensic Analysis. Critical Reviews in Analytical Chemistry, 2010, 40, 218-225.	3.5	23
40	Spatial distribution of total and bioavailable heavy metal contents in soil from agricultural, residential, and industrial areas in Sudan. Toxin Reviews, 2019, 38, 93-105.	3.4	23
41	The Second Five Years of Sequential Injection Chromatography: Significant Developments in the Technology and Methodologies. Critical Reviews in Analytical Chemistry, 2014, 44, 220-232.	3.5	21
42	Inexpensive Green Method for Diclofenac Assay Utilizing Sequential Injection Chromatography. Chromatographia, 2011, 73, 431-437.	1.3	20
43	Optimization using the gradient and simplex methods. Talanta, 2016, 148, 641-648.	5.5	20
44	Receptor model-oriented sources and risks evaluation of metals in sediments of an industrial affected riverine system in Bangladesh. Science of the Total Environment, 2022, 838, 156029.	8.0	20
45	Trace elements concentration in soil and plant within the vicinity of abandoned tanning sites in Bangladesh: an integrated chemometric approach for health risk assessment. Toxin Reviews, 2022, 41, 752-767.	3.4	19
46	Degradation mechanism of Direct Red 23 dye by advanced oxidation processes: a comparative study. Toxin Reviews, 2022, 41, 38-47.	3.4	19
47	Sequential injection chromatography against HPLC and CE: Application to separation and quantification of amoxicillin and clavulanic acid. Microchemical Journal, 2011, 99, 174-179.	4.5	18
48	Potential toxic elements in sediment and fishes of an important fish breeding river in Bangladesh: a preliminary study for ecological and health risks assessment. Toxin Reviews, 2022, 41, 945-958.	3.4	18
49	Public Health Vulnerability Due to the Exposure of Dissolved Metal(oid)s in Tap Water from a Mega City (Dhaka, Bangladesh): Source and Quality Appraisals. Exposure and Health, 2022, 14, 713-732.	4.9	18
50	Potentially toxic elements in vegetable and rice species in Bangladesh and their exposure assessment. Journal of Food Composition and Analysis, 2022, 106, 104350.	3.9	18
51	Factorial design and response surface optimization of spectrophotometric sequential injection analysis of olanzapine formulations. Journal of Analytical Chemistry, 2010, 65, 36-42.	0.9	17
52	Sequential injection chromatography with a miniaturized multi-channel fiber optic detector for separation and quantification of propranolol and hydrochlorothiazide. Chemistry Central Journal, 2011, 5, 28.	2.6	17
53	Capillary Electrophoresis Assay Method for Metoprolol and Hydrochlorothiazide in their Combined Dosage Form with Multivariate Optimization. Journal of Chromatographic Science, 2013, 51, 92-97.	1.4	17
54	Investigation of total zinc contents and zinc-protein profile in medicinal plants traditionally used for diabetes treatment. BioMetals, 2020, 33, 65-74.	4.1	17

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55	Isotopic and chemical facies for assessing the shallow water table aquifer quality in Goly Region, White Nile State, Sudan: focusing on nitrate source apportionment and human health risk. Toxin Reviews, 2021, 40, 764-776.	3.4	17
56	Advanced oxidation of acid yellow 11 dye; detoxification and degradation mechanism. Toxin Reviews, 2021, 40, 1472-1480.	3.4	17
57	Feasible and eco-friendly removal of hexavalent chromium toxicant from aqueous solutions using chemically modified sugarcane bagasse cellulose. Toxin Reviews, 2021, 40, 835-846.	3.4	17
58	Spatial distribution, multivariate statistical analysis, and health risk assessment of some parameters controlling drinking water quality at selected primary schools located in the southwestern coastal region of Bangladesh. Toxin Reviews, 2022, 41, 247-260.	3.4	17
59	High surface area microporous activated carbon from <i>Pisum sativum</i> peels for hexavalent chromium removal from aquatic environment. Toxin Reviews, 2022, 41, 639-649.	3.4	17
60	Heavy metals in sediments of an urban river at the vicinity of tannery industries in Bangladesh: a preliminary study for ecological and human health risk. International Journal of Environmental Analytical Chemistry, 2023, 103, 7909-7927.	3.3	17
61	The significance of nuclear data in the production of radionuclides for theranostic/therapeutic applications. Radiation Physics and Chemistry, 2022, 200, 110342.	2.8	17
62	Geochemical variation and contamination level of potentially toxic elements in land-uses urban soils. International Journal of Environmental Analytical Chemistry, 0, , 1-18.	3.3	16
63	Potentially toxic elemental contamination in Wainivesi River, Fiji impacted by gold-mining activities using chemometric tools and SOM analysis. Environmental Science and Pollution Research, 2022, 29, 42742-42767.	5.3	16
64	Environmental geochemistry of higher radioactivity in a transboundary Himalayan river sediment (Brahmaputra, Bangladesh): potential radiation exposure and health risks. Environmental Science and Pollution Research, 2022, 29, 57357-57375.	5.3	15
65	Pharmacological Potential of Avicennia alba Leaf Extract: An Experimental Analysis Focusing on Antidiabetic, Anti-inflammatory, Analgesic, and Antidiarrheal Activity. BioMed Research International, 2022, 2022, 1-10.	1.9	15
66	Sequential Injection Chromatography for Separation and Quantification of Chlorpromazine in Human Urine and Pharmaceutical Formulations. Journal of AOAC INTERNATIONAL, 2013, 96, 282-289.	1.5	14
67	Contamination and ecological risk assessment of heavy metals in water and sediment from hubs of fish resource river in a developing country. Toxin Reviews, 2022, 41, 1253-1268.	3.4	13
68	Screening of conditions controlling spectrophotometric sequential injection analysis. Chemistry Central Journal, 2011, 5, 9.	2.6	12
69	REVERSED-PHASE SEQUENTIAL INJECTION LIQUID CHROMATOGRAPHIC METHOD FOR SILDENAFIL ASSAY. Journal of Liquid Chromatography and Related Technologies, 2011, 34, 2256-2270.	1.0	12
70	Geochemical speciation and bioaccumulation of trace elements in different tissues of pumpkin in the abandoned soils: Health hazard perspective in a developing country. Toxin Reviews, 2022, 41, 1124-1138.	3.4	12
71	Amassing the Covid-19 driven PPE wastes in the dwelling environment of Chittagong Metropolis and associated implications. Chemosphere, 2022, 297, 134022.	8.2	12
72	Multi-response optimization of sequential injection chromatographic method for determination of lisinopril and hydrochlorothiazide. Analytical Methods, 2012, 4, 2081.	2.7	11

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73	SEM, SEM-EDX, µ-ATR-FTIR and XRD for urban street dust characterisation. International Journal of Environmental Analytical Chemistry, 2021, 101, 988-1006.	3.3	11
74	Heavy metals from different land use soil in the capital of ancient Pundranagar, Bangladesh: a preliminary study for ecological risk assessment. Chemistry and Ecology, 2022, 38, 720-743.	1.6	11
<b>7</b> 5	SEQUENTIAL INJECTION CHROMATOGRAPHY FOR BIOFLUIDIC ANALYSIS: APPLICATION TO PROMETHAZINE ASSAY. Journal of Liquid Chromatography and Related Technologies, 2012, 35, 2884-2899.	1.0	9
76	Between-bottle homogeneity test of new certified reference materials employing wavelength dispersive X-ray fluorescence spectrometry. BMC Chemistry, 2019, 13, 23.	3.8	9
77	Combining relationship indices, human risk indices, multivariate statistical analysis and international guidelines for assessing the residue levels of USEPA-PAHs in seafood. Polycyclic Aromatic Compounds, 2020, 40, 758-773.	2.6	9
78	Quadruple Response Factorial Design Optimization of Capillary Zone Electrophoresis Assay Procedure for Metformin and Sitagliptin Combination. Journal of Liquid Chromatography and Related Technologies, 2015, 38, 1379-1383.	1.0	8
79	Multi-media compartments for assessing ecological and health risks from concurrent exposure to multiple contaminants on Bhola Island, Bangladesh. Emerging Contaminants, 2022, 8, 134-150.	4.9	8
80	Facile assay method for norfloxacin and ciprofloxacin by sequential injection chromatography. Acta Chromatographica, 2014, 26, 321-334.	1.3	7
81	Integration of instrumental neutron activation analysis and inductively coupled plasma-optical emission spectrometry with mathematical modeling for the elemental analysis of plants. Instrumentation Science and Technology, 2017, 45, 525-540.	1.8	7
82	Cr and Mn total, accessible species, and protein-fraction contents in plants used for traditional anti-diabetes treatment. Journal of Trace Elements in Medicine and Biology, 2020, 62, 126645.	3.0	7
83	Bio-Synthesized Tin Oxide Nanoparticles: Structural, Optical, and Biological Studies. Crystals, 2022, 12, 614.	2.2	7
84	Impact of Industrially Affected Soil on Humans: A Soil-Human and Soil-Plant-Human Exposure Assessment. Toxics, 2022, 10, 347.	3.7	7
85	Experimental Design Optimization of a Sequential Injection Method for Promazine Assay in Bulk and Pharmaceutical Formulations. Journal of Automated Methods and Management in Chemistry, 2007, 2007, 1-7.	0.5	6
86	Developing new method for quantifying pindolol by sequential injection analysis. Journal of Analytical Chemistry, 2012, 67, 497-503.	0.9	6
87	MICRO-SCALE METHOD FOR SEPARATION AND QUANTIFICATION OF ATENOLOL AND HYDROCHLOROTHIAZIDE BY SEQUENTIAL INJECTION CHROMATOGRAPHY. Journal of Liquid Chromatography and Related Technologies, 2013, 36, 2814-2827.	1.0	6
88	Knowledge, attitude, and practice regarding infection control measures among dental students during COVID-19 pandemic. Archives of Environmental and Occupational Health, 2022, 77, 455-467.	1.4	6
89	Removal of arsenic(III) from aqueous media using amine functionalized-grafted styrene/maleic anhydride low-density polyethylene films. Toxin Reviews, 2022, 41, 713-720.	3.4	6
90	Development of a CZE Method for the Quantification of Pseudoephedrine and Cetirizine. Journal of Chromatographic Science, 2014, 52, 1104-1108.	1.4	5

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91	An in-depth investigation in photoconductivity of Poly(vinyl alcohol)/Starch/Magnetite nanoparticle composite films for optoelectronic applications. Optik, 2020, 208, 164107.	2.9	5
92	Native fluorescent detection with sequential injection chromatography for doping control analysis. Chemistry Central Journal, 2013, 7, 144.	2.6	4
93	Eco-friendly, cost-effective and fast method for the estimation of furosemide and amiloride in tablet formulation by sequential injection chromatography. Journal of Analytical Chemistry, 2014, 69, 1193-1198.	0.9	4
94	Mercury(II) decontamination using a newly synthesized poly(acrylonitrile-acrylic acid)/ammonium molybdophosphate composite exchanger. Toxin Reviews, 2020, , $1-13$ .	3.4	4
95	Influence of cement dust exposure on periodontal health of occupational workers. Toxin Reviews, 2021, 40, 1496-1504.	3.4	4
96	Physicochemical properties of water in an intensive agricultural region in Bangladesh: a preliminary study for water quality and health risk assessment. International Journal of Environmental Analytical Chemistry, 0, , 1-22.	3.3	4
97	Fabrication of Silver Nanoparticles from Ziziphus nummularia Fruit Extract: Effect on Hair Growth Rate and Activity against Selected Bacterial and Fungal Strains. Journal of Nanomaterials, 2022, 2022, 1-14.	2.7	4
98	Optimizing SIC assay method for acetyl salicylic acid and rosuvastatin and adapting to HPLC with performance comparison. Acta Chromatographica, 2015, 27, 111-125.	1.3	3
99	High-throughput sequential injection assay method for chlorpromazine. Journal of Analytical Chemistry, 2013, 68, 233-240.	0.9	2
100	Long-term stability test of elemental content in new environmental certified reference material candidates using ICP OES and ICP-SFMS. Toxin Reviews, 2019, , 1-9.	3.4	2
101	Developing an Ultra-Sensitive Catalytic Spectrophotometric Method for Vanadium Determination in Virgin and Used Lubricating Oils. Petroleum Chemistry, 2021, 61, 220-230.	1.4	2
102	Particle induced X-ray emission and Rutherford backscattering spectrometry for testing homogeneity of environmental certified reference material candidates. International Journal of Environmental Analytical Chemistry, 2021, 101, 778-793.	3.3	2
103	The presence of toxic metals in tillage soils of Chittagong hill tracts in Bangladesh and the resultant health risk. International Journal of Environmental Analytical Chemistry, 2023, 103, 7666-7685.	3.3	2
104	Sequential Injection Chromatography with Monolithic Column for Phenothiazines Assay in Human Urine and Pharmaceutical Formulations. Current Pharmaceutical Analysis, 2020, 16, 967-975.	0.6	1
105	A hybrid multi objective cellular spotted hyena optimizer for wellbore trajectory optimization. PLoS ONE, 2022, 17, e0261427.	2.5	1
106	The efficacy of neutron activation analysis for homogeneity testing of CRMs candidates of soil matrices. International Journal of Environmental Analytical Chemistry, 0, , 1-14.	3.3	0
107	Synthesis, Characterization, and Application of TiO2–Magnetite/Chitosan Nanocomposite for Adsorptive Removal of Naphthalene from Aqueous Solutions. Petroleum Chemistry, 0, , 1.	1.4	0
108	Flow Injection Techniques for Tetracycline Quantification: A Review. Critical Reviews in Analytical Chemistry, 2021, , 1-19.	3.5	0

## ABUBAKR M IDRIS

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109	Fast removal of methylene blue by modified sorel cement using manganese(VII) as an additive: kinetics, thermodynamics, and equilibrium studies. International Journal of Environmental Analytical Chemistry, 0, , 1-21.	3.3	O
110	Structural and In Situ X-ray Diffraction Study of Hydrogenation of CaxMg1â^'xNi2 (0 â‰攻 â‰丸). Crystals, 2022, 12, 47.	2.2	0
111	Response of Sesame to Intercropping with Groundnut and Cowpea. Communications in Soil Science and Plant Analysis, $0$ , $1$ -12.	1.4	O