

# Abubakr M Idris

## List of Publications by Year in descending order

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111  
papers

2,306  
citations

236912

25  
h-index

315719

38  
g-index

112  
all docs

112  
docs citations

112  
times ranked

1377  
citing authors

#	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. <i>Microchemical Journal</i> , 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. <i>Journal of Hazardous Materials</i> , 2022, 423, 127030.	12.4	83
3	The Multifunctional Role of Herbal Products in the Management of Diabetes and Obesity: A Comprehensive Review. <i>Molecules</i> , 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. <i>International Journal of Sediment Research</i> , 2022, 37, 173-187.	3.5	70
5	Assessment of heavy metals pollution in Sudanese harbours along the Red Sea Coast. <i>Microchemical Journal</i> , 2007, 87, 104-112.	4.5	65
6	Capillary electrophoresis for the determination of norfloxacin and tinidazole in pharmaceuticals with multi-response optimization. <i>Talanta</i> , 2007, 72, 842-846.	5.5	58
7	Assessment of heavy metal contamination in sediment at the newly established tannery industrial Estate in Bangladesh: A case study. <i>Environmental Chemistry and Ecotoxicology</i> , 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. <i>Environmental Science and Pollution Research</i> , 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. <i>Environmental Science and Pollution Research</i> , 2021, 28, 68585-68599.	5.3	46
10	Flowery In <sub>2</sub> MnSe <sub>4</sub> Novel Electrocatalyst Developed via Anion Exchange Strategy for Efficient Water Splitting. <i>Nanomaterials</i> , 2022, 12, 2209.	4.1	46
11	Natural Bioactive Molecules: An Alternative Approach to the Treatment and Control of COVID-19. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12638.	4.1	45
12	Polyphenols: A first evidence in the synergism and bioactivities. <i>Food Reviews International</i> , 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. <i>Science of the Total Environment</i> , 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. <i>Human and Ecological Risk Assessment (HERA)</i> , 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. <i>Marine Pollution Bulletin</i> , 2022, 174, 113246.	5.0	42
16	Potential toxic metals (PTMs) contamination in agricultural soils and foodstuffs with associated source identification and model uncertainty. <i>Science of the Total Environment</i> , 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. <i>Talanta</i> , 2008, 77, 522-526.	5.5	36
18	An Overview of the Generations and Recent Versions of Flow Injection Techniques. <i>Critical Reviews in Analytical Chemistry</i> , 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. <i>Toxin Reviews</i> , 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. <i>Environmental Science and Pollution Research</i> , 2015, 22, 17012-17021.	5.3	30
21	Development of a stability-indicating capillary electrophoresis method for norfloxacin and its inactive decarboxylated degradant. <i>Microchemical Journal</i> , 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. <i>Microchemical Journal</i> , 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. <i>Toxin Reviews</i> , 2021, 40, 102-115.	3.4	29
24	Road dust-driven elemental distribution in megacity Dhaka, Bangladesh: environmental, ecological, and human health risks assessment. <i>Environmental Science and Pollution Research</i> , 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. <i>Environmental Monitoring and Assessment</i> , 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. <i>Toxin Reviews</i> , 2022, 41, 860-879.	3.4	28
27	Application of novel framework approach for prediction of nitrate concentration susceptibility in coastal multi-aquifers, Bangladesh. <i>Science of the Total Environment</i> , 2021, 801, 149811.	8.0	28
28	Bioaccumulation and health risk assessment of toxic metals in red algae in Sudanese Red Sea coast. <i>Toxin Reviews</i> , 2021, 40, 1327-1337.	3.4	27
29	Rapid inexpensive assay method for verapamil by spectrophotometric sequential injection analysis. <i>Drug Testing and Analysis</i> , 2011, 3, 380-386.	2.6	26
30	Synthesis, characterization, and application of a novel polymeric-bentonite-magnetite composite resin for water softening. <i>Separation and Purification Technology</i> , 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. <i>Journal of Cleaner Production</i> , 2022, 336, 130407.	9.3	26
32	Chemometric optimization of a SIA promethazine hydrochloride assay method. <i>Microchemical Journal</i> , 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. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007, 856, 62-67.	2.3	25
34	Brown algae (Phaeophyta) for monitoring heavy metals at the Sudanese Red Sea coast. <i>Applied Water Science</i> , 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. <i>Environmental Science and Pollution Research</i> , 2022, 29, 27521-27533.	5.3	25
36	Plant-microbe-metal interactions for heavy metal bioremediation: a review. <i>Crop and Pasture Science</i> , 2022, 73, 181-201.	1.5	24

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37	Metal-Doped Graphitic Carbon Nitride Nanomaterials for Photocatalytic Environmental Applications—A Review. <i>Nanomaterials</i> , 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. <i>Journal of Pharmacological and Toxicological Methods</i> , 2007, 56, 330-335.	0.7	23
39	Flow Injection, Overlooked Techniques in Forensic Analysis. <i>Critical Reviews in Analytical Chemistry</i> , 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. <i>Toxin Reviews</i> , 2019, 38, 93-105.	3.4	23
41	The Second Five Years of Sequential Injection Chromatography: Significant Developments in the Technology and Methodologies. <i>Critical Reviews in Analytical Chemistry</i> , 2014, 44, 220-232.	3.5	21
42	Inexpensive Green Method for Diclofenac Assay Utilizing Sequential Injection Chromatography. <i>Chromatographia</i> , 2011, 73, 431-437.	1.3	20
43	Optimization using the gradient and simplex methods. <i>Talanta</i> , 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. <i>Science of the Total Environment</i> , 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. <i>Toxin Reviews</i> , 2022, 41, 752-767.	3.4	19
46	Degradation mechanism of Direct Red 23 dye by advanced oxidation processes: a comparative study. <i>Toxin Reviews</i> , 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. <i>Microchemical Journal</i> , 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. <i>Toxin Reviews</i> , 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. <i>Exposure and Health</i> , 2022, 14, 713-732.	4.9	18
50	Potentially toxic elements in vegetable and rice species in Bangladesh and their exposure assessment. <i>Journal of Food Composition and Analysis</i> , 2022, 106, 104350.	3.9	18
51	Factorial design and response surface optimization of spectrophotometric sequential injection analysis of olanzapine formulations. <i>Journal of Analytical Chemistry</i> , 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. <i>Chemistry Central Journal</i> , 2011, 5, 28.	2.6	17
53	Capillary Electrophoresis Assay Method for Metoprolol and Hydrochlorothiazide in their Combined Dosage Form with Multivariate Optimization. <i>Journal of Chromatographic Science</i> , 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. <i>BioMetals</i> , 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. <i>Toxin Reviews</i> , 2021, 40, 764-776.	3.4	17
56	Advanced oxidation of acid yellow 11 dye; detoxification and degradation mechanism. <i>Toxin Reviews</i> , 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. <i>Toxin Reviews</i> , 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. <i>Toxin Reviews</i> , 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. <i>Toxin Reviews</i> , 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. <i>International Journal of Environmental Analytical Chemistry</i> , 2023, 103, 7909-7927.	3.3	17
61	The significance of nuclear data in the production of radionuclides for theranostic/therapeutic applications. <i>Radiation Physics and Chemistry</i> , 2022, 200, 110342.	2.8	17
62	Geochemical variation and contamination level of potentially toxic elements in land-uses urban soils. <i>International Journal of Environmental Analytical Chemistry</i> , 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. <i>Environmental Science and Pollution Research</i> , 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. <i>Environmental Science and Pollution Research</i> , 2022, 29, 57357-57375.	5.3	15
65	Pharmacological Potential of <i>Avicennia alba</i> Leaf Extract: An Experimental Analysis Focusing on Antidiabetic, Anti-inflammatory, Analgesic, and Antidiarrheal Activity. <i>BioMed Research International</i> , 2022, 2022, 1-10.	1.9	15
66	Sequential Injection Chromatography for Separation and Quantification of Chlorpromazine in Human Urine and Pharmaceutical Formulations. <i>Journal of AOAC INTERNATIONAL</i> , 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. <i>Toxin Reviews</i> , 2022, 41, 1253-1268.	3.4	13
68	Screening of conditions controlling spectrophotometric sequential injection analysis. <i>Chemistry Central Journal</i> , 2011, 5, 9.	2.6	12
69	REVERSED-PHASE SEQUENTIAL INJECTION LIQUID CHROMATOGRAPHIC METHOD FOR SILDENAFIL ASSAY. <i>Journal of Liquid Chromatography and Related Technologies</i> , 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. <i>Toxin Reviews</i> , 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. <i>Chemosphere</i> , 2022, 297, 134022.	8.2	12
72	Multi-response optimization of sequential injection chromatographic method for determination of lisinopril and hydrochlorothiazide. <i>Analytical Methods</i> , 2012, 4, 2081.	2.7	11

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73	SEM, SEM-EDX, $\mu$ -ATR-FTIR and XRD for urban street dust characterisation. <i>International Journal of Environmental Analytical Chemistry</i> , 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. <i>Chemistry and Ecology</i> , 2022, 38, 720-743.	1.6	11
75	SEQUENTIAL INJECTION CHROMATOGRAPHY FOR BIOFLUIDIC ANALYSIS: APPLICATION TO PROMETHAZINE ASSAY. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2012, 35, 2884-2899.	1.0	9
76	Between-bottle homogeneity test of new certified reference materials employing wavelength dispersive X-ray fluorescence spectrometry. <i>BMC Chemistry</i> , 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. <i>Polycyclic Aromatic Compounds</i> , 2020, 40, 758-773.	2.6	9
78	Quadruple Response Factorial Design Optimization of Capillary Zone Electrophoresis Assay Procedure for Metformin and Sitagliptin Combination. <i>Journal of Liquid Chromatography and Related Technologies</i> , 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. <i>Emerging Contaminants</i> , 2022, 8, 134-150.	4.9	8
80	Facile assay method for norfloxacin and ciprofloxacin by sequential injection chromatography. <i>Acta Chromatographica</i> , 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. <i>Instrumentation Science and Technology</i> , 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. <i>Journal of Trace Elements in Medicine and Biology</i> , 2020, 62, 126645.	3.0	7
83	Bio-Synthesized Tin Oxide Nanoparticles: Structural, Optical, and Biological Studies. <i>Crystals</i> , 2022, 12, 614.	2.2	7
84	Impact of Industrially Affected Soil on Humans: A Soil-Human and Soil-Plant-Human Exposure Assessment. <i>Toxics</i> , 2022, 10, 347.	3.7	7
85	Experimental Design Optimization of a Sequential Injection Method for Promazine Assay in Bulk and Pharmaceutical Formulations. <i>Journal of Automated Methods and Management in Chemistry</i> , 2007, 2007, 1-7.	0.5	6
86	Developing new method for quantifying pindolol by sequential injection analysis. <i>Journal of Analytical Chemistry</i> , 2012, 67, 497-503.	0.9	6
87	MICRO-SCALE METHOD FOR SEPARATION AND QUANTIFICATION OF ATENOLOL AND HYDROCHLOROTHIAZIDE BY SEQUENTIAL INJECTION CHROMATOGRAPHY. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2013, 36, 2814-2827.	1.0	6
88	Knowledge, attitude, and practice regarding infection control measures among dental students during COVID-19 pandemic. <i>Archives of Environmental and Occupational Health</i> , 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. <i>Toxin Reviews</i> , 2022, 41, 713-720.	3.4	6
90	Development of a CZE Method for the Quantification of Pseudoephedrine and Cetirizine. <i>Journal of Chromatographic Science</i> , 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. <i>Optik</i> , 2020, 208, 164107.	2.9	5
92	Native fluorescent detection with sequential injection chromatography for doping control analysis. <i>Chemistry Central Journal</i> , 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. <i>Journal of Analytical Chemistry</i> , 2014, 69, 1193-1198.	0.9	4
94	Mercury(II) decontamination using a newly synthesized poly(acrylonitrile-acrylic acid)/ammonium molybdophosphate composite exchanger. <i>Toxin Reviews</i> , 2020, , 1-13.	3.4	4
95	Influence of cement dust exposure on periodontal health of occupational workers. <i>Toxin Reviews</i> , 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. <i>International Journal of Environmental Analytical Chemistry</i> , 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. <i>Journal of Nanomaterials</i> , 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. <i>Acta Chromatographica</i> , 2015, 27, 111-125.	1.3	3
99	High-throughput sequential injection assay method for chlorpromazine. <i>Journal of Analytical Chemistry</i> , 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. <i>Toxin Reviews</i> , 2019, , 1-9.	3.4	2
101	Developing an Ultra-Sensitive Catalytic Spectrophotometric Method for Vanadium Determination in Virgin and Used Lubricating Oils. <i>Petroleum Chemistry</i> , 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. <i>International Journal of Environmental Analytical Chemistry</i> , 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. <i>International Journal of Environmental Analytical Chemistry</i> , 2023, 103, 7666-7685.	3.3	2
104	Sequential Injection Chromatography with Monolithic Column for Phenothiazines Assay in Human Urine and Pharmaceutical Formulations. <i>Current Pharmaceutical Analysis</i> , 2020, 16, 967-975.	0.6	1
105	A hybrid multi objective cellular spotted hyena optimizer for wellbore trajectory optimization. <i>PLoS ONE</i> , 2022, 17, e0261427.	2.5	1
106	The efficacy of neutron activation analysis for homogeneity testing of CRMs candidates of soil matrices. <i>International Journal of Environmental Analytical Chemistry</i> , 0, , 1-14.	3.3	0
107	Synthesis, Characterization, and Application of TiO <sub>2</sub> â€“Magnetite/Chitosan Nanocomposite for Adsorptive Removal of Naphthalene from Aqueous Solutions. <i>Petroleum Chemistry</i> , 0, , 1.	1.4	0
108	Flow Injection Techniques for Tetracycline Quantification: A Review. <i>Critical Reviews in Analytical Chemistry</i> , 2021, , 1-19.	3.5	0

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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	0
110	Structural and In Situ X-ray Diffraction Study of Hydrogenation of $C_xMg_{1-x}Ni_2$ ( $0 \leq x \leq 1$ ). 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	0