Abubakr M Idris

List of Publications by Year
in descending order

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

#	Article	IF	Citations
1	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
2	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
3	Polyphenols: A first evidence in the synergism and bioactivities. Food Reviews International, 2023, 39, 4419-4441.	8.4	45
4	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
5	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
6	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
7	High surface area microporous activated carbon from Pisum sativum peels for hexavalent chromium removal from aquatic environment. Toxin Reviews, 2022, 41, 639-649.	3.4	17
8	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
9	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
10	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
11	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
12	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
13	Plantâ€“microbeâ€“metal interactions for heavy metal bioremediation: a review. Crop and Pasture Science, 2022, 73, 181-201.	1.5	24
14	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
15	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
16	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
17	Degradation mechanism of Direct Red 23 dye by advanced oxidation processes: a comparative study. Toxin Reviews, 2022, 41, 38-47.	3.4	19
18	Road dustâ€“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

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19	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
20	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
21	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
22	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
23	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
24	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
25	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
26	A hybrid multi objective cellular spotted hyena optimizer for wellbore trajectory optimization. PLoS ONE, 2022, 17, e0261427.	2.5	1
27	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
28	The Multifunctional Role of Herbal Products in the Management of Diabetes and Obesity: A Comprehensive Review. Molecules, 2022, 27, 1713.	3.8	79
29	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
30	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
31	Amassing the Covid-19 driven PPE wastes in the dwelling environment of Chittagong Metropolis and associated implications. Chemosphere, 2022, 297, 134022.	8.2	12
32	Structural and In Situ X-ray Diffraction Study of Hydrogenation of CaxMg1â^'xNi2 (0 â‰ x â‰ 1). Crystals, 2022, 12, 47.	2.2	0
33	Bio-Synthesized Tin Oxide Nanoparticles: Structural, Optical, and Biological Studies. Crystals, 2022, 12, 614.	2.2	7
34	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
35	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
36	Metal-Doped Graphitic Carbon Nitride Nanomaterials for Photocatalytic Environmental Applicationsâ€"A Review. Nanomaterials, 2022, 12, 1754.	4.1	24

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37	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
38	Impact of Industrially Affected Soil on Humans: A Soil-Human and Soil-Plant-Human Exposure Assessment. Toxics, 2022, 10, 347.	3.7	7
39	The significance of nuclear data in the production of radionuclides for theranostic/therapeutic applications. Radiation Physics and Chemistry, 2022, 200, 110342.	2.8	17
40	Flowery In2MnSe4 Novel Electrocatalyst Developed via Anion Exchange Strategy for Efficient Water Splitting. Nanomaterials, 2022, 12, 2209.	4.1	46
41	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
42	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
43	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
44	Influence of cement dust exposure on periodontal health of occupational workers. Toxin Reviews, 2021, 40, 1496-1504.	3.4	4
45	Advanced oxidation of acid yellow 11 dye; detoxification and degradation mechanism. Toxin Reviews, 2021, 40, 1472-1480.	3.4	17
46	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
47	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
48	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
49	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
50	SEM, SEM-EDX, Âµ-ATR-FTIR and XRD for urban street dust characterisation. International Journal of Environmental Analytical Chemistry, 2021, 101, 988-1006.	3.3	11
51	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
52	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
53	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
54	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

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55	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
56	Flow Injection Techniques for Tetracycline Quantification: A Review. Critical Reviews in Analytical Chemistry, 2021, , 1-19.	3.5	0
57	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
58	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
59	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
60	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
61	Mercury(II) decontamination using a newly synthesized poly(acrylonitrile-acrylic acid)/ammonium molybdophosphate composite exchanger. Toxin Reviews, 2020, , 1-13.	3.4	4
62	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
63	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
64	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
65	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
66	Between-bottle homogeneity test of new certified reference materials employing wavelength dispersive X-ray fluorescence spectrometry. BMC Chemistry, 2019, 13, 23.	3.8	9
67	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
68	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
69	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
70	Brown algae (Phaeophyta) for monitoring heavy metals at the Sudanese Red Sea coast. Applied Water Science, 2017, 7, 3817-3824.	5.6	25
71	Optimization using the gradient and simplex methods. Talanta, 2016, 148, 641-648.	5.5	20
72	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

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73	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
74	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
75	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
76	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
77	Development of a CZE Method for the Quantification of Pseudoephedrine and Cetirizine. Journal of Chromatographic Science, 2014, 52, 1104-1108.	1.4	5
78	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
79	Facile assay method for norfloxacin and ciprofloxacin by sequential injection chromatography. Acta Chromatographica, 2014, 26, 321-334.	1.3	7
80	High-throughput sequential injection assay method for chlorpromazine. Journal of Analytical Chemistry, 2013, 68, 233-240.	0.9	2
81	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
82	Native fluorescent detection with sequential injection chromatography for doping control analysis. Chemistry Central Journal, 2013, 7, 144.	2.6	4
83	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
84	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
85	SEQUENTIAL INJECTION CHROMATOGRAPHY FOR BIOFLUIDIC ANALYSIS: APPLICATION TO PROMETHAZINE ASSAY. Journal of Liquid Chromatography and Related Technologies, 2012, 35, 2884-2899.	1.0	9
86	Multi-response optimization of sequential injection chromatographic method for determination of lisinopril and hydrochlorothiazide. Analytical Methods, 2012, 4, 2081.	2.7	11
87	Developing new method for quantifying pindolol by sequential injection analysis. Journal of Analytical Chemistry, 2012, 67, 497-503.	0.9	6
88	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
89	Rapid inexpensive assay method for verapamil by spectrophotometric sequential injection analysis. Drug Testing and Analysis, 2011, 3, 380-386.	2.6	26
90	Inexpensive Green Method for Diclofenac Assay Utilizing Sequential Injection Chromatography. Chromatographia, 2011, 73, 431-437.	1.3	20

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91	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
92	Screening of conditions controlling spectrophotometric sequential injection analysis. Chemistry Central Journal, 2011, 5, 9.	2.6	12
93	REVERSED-PHASE SEQUENTIAL INJECTION LIQUID CHROMATOGRAPHIC METHOD FOR SILDENAFIL ASSAY. Journal of Liquid Chromatography and Related Technologies, 2011, 34, 2256-2270.	1.0	12
94	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
95	An Overview of the Generations and Recent Versions of Flow Injection Techniques. Critical Reviews in Analytical Chemistry, 2010, 40, 150-158.	3.5	33
96	Flow Injection, Overlooked Techniques in Forensic Analysis. Critical Reviews in Analytical Chemistry, 2010, 40, 218-225.	3.5	23
97	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
98	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
99	Capillary electrophoresis for the determination of norfloxacin and tinidazole in pharmaceuticals with multi-response optimization. Talanta, 2007, 72, 842-846.	5.5	58
100	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
101	Development of a stability-indicating capillary electrophoresis method for norfloxacin and its inactive decarboxylated degradant. Microchemical Journal, 2007, 87, 35-40.	4.5	29
102	Assessment of heavy metals pollution in Sudanese harbours along the Red Sea Coast. Microchemical Journal, 2007, 87, 104-112.	4.5	65
103	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
104	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
105	Chemometric optimization of a SIA promethazine hydrochloride assay method. Microchemical Journal, 2006, 83, 7-13.	4.5	25
106	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
107	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
108	Synthesis, Characterization, and Application of TiO2â€"Magnetite/Chitosan Nanocomposite for Adsorptive Removal of Naphthalene from Aqueous Solutions. Petroleum Chemistry, 0, , 1.	1.4	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	Response of Sesame to Intercropping with Groundnut and Cowpea. Communications in Soil Science and Plant Analysis, 0, , 1-12.	1.4	0
111	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