

Muhammad Sajid

List of Publications by Year in descending order

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81
papers

5,513
citations

87888

38
h-index

82547

72
g-index

84
all docs

84
docs citations

84
times ranked

7026
citing authors

#	ARTICLE	IF	CITATIONS
1	Designs, formats and applications of lateral flow assay: A literature review. <i>Journal of Saudi Chemical Society</i> , 2015, 19, 689-705.	5.2	545
2	ddPCR: a more accurate tool for SARS-CoV-2 detection in low viral load specimens. <i>Emerging Microbes and Infections</i> , 2020, 9, 1259-1268.	6.5	333
3	Chemically modified electrodes for electrochemical detection of dopamine in the presence of uric acid and ascorbic acid: A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 76, 15-29.	11.4	313
4	Impact of nanoparticles on human and environment: review of toxicity factors, exposures, control strategies, and future prospects. <i>Environmental Science and Pollution Research</i> , 2015, 22, 4122-4143.	5.3	294
5	Removal of heavy metals and organic pollutants from water using dendritic polymers based adsorbents: A critical review. <i>Separation and Purification Technology</i> , 2018, 191, 400-423.	7.9	285
6	Recent trends in nanomaterial-modified electrodes for electroanalytical applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 111, 47-61.	11.4	235
7	Green analytical chemistry metrics: A review. <i>Talanta</i> , 2022, 238, 123046.	5.5	219
8	Layered double hydroxides: Emerging sorbent materials for analytical extractions. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 75, 174-182.	11.4	183
9	Graphene-based adsorbents for the removal of toxic organic pollutants: A review. <i>Journal of Environmental Management</i> , 2019, 244, 370-382.	7.8	164
10	Liquidâ€“phase microextraction: A review of reviews. <i>Microchemical Journal</i> , 2019, 149, 103989.	4.5	143
11	Desalination and environment: A critical analysis of impacts, mitigation strategies, and greener desalination technologies. <i>Science of the Total Environment</i> , 2021, 780, 146585.	8.0	132
12	Nanoparticles: Synthesis, characteristics, and applications in analytical and other sciences. <i>Microchemical Journal</i> , 2020, 154, 104623.	4.5	116
13	Graphite pencil electrodes as electrochemical sensors for environmental analysis: a review of features, developments, and applications. <i>RSC Advances</i> , 2016, 6, 91325-91340.	3.6	112
14	Porous membrane protected micro-solid-phase extraction: A review of features, advancements and applications. <i>Analytica Chimica Acta</i> , 2017, 965, 36-53.	5.4	104
15	Chemically modified electrodes for electrochemical detection of dopamine: Challenges and opportunities. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 118, 368-385.	11.4	103
16	Applications of layered double hydroxides based electrochemical sensors for determination of environmental pollutants: A review. <i>Trends in Environmental Analytical Chemistry</i> , 2017, 16, 1-15.	10.3	101
17	Toxicity of nanoscale metal organic frameworks: a perspective. <i>Environmental Science and Pollution Research</i> , 2016, 23, 14805-14807.	5.3	98
18	An overview of cooling of thermoelectric devices. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 78, 15-22.	16.4	98

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19	Magnetic ionic liquids in analytical sample preparation: A literature review. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 113, 210-223.	11.4	97
20	Solid Phase Microextraction: Apparatus, Sorbent Materials, and Application. <i>Critical Reviews in Analytical Chemistry</i> , 2019, 49, 271-288.	3.5	96
21	Novel materials for dispersive (micro) solid-phase extraction of polycyclic aromatic hydrocarbons in environmental water samples: A review. <i>Analytica Chimica Acta</i> , 2021, 1141, 246-262.	5.4	86
22	Combined extraction and microextraction techniques: Recent trends and future perspectives. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 103, 74-86.	11.4	84
23	Removal of pharmaceuticals from water using sewage sludge-derived biochar: A review. <i>Chemosphere</i> , 2022, 289, 133196.	8.2	84
24	Dispersive liquid-liquid microextraction based binary extraction techniques prior to chromatographic analysis: A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 108, 167-182.	11.4	82
25	Evaluation of layered double hydroxide/graphene hybrid as a sorbent in membrane-protected stir-bar supported micro-solid-phase extraction for determination of organochlorine pesticides in urine samples. <i>Journal of Chromatography A</i> , 2017, 1489, 1-8.	3.7	74
26	MXenes: Are they emerging materials for analytical chemistry applications? â€œ A review. <i>Analytica Chimica Acta</i> , 2021, 1143, 267-280.	5.4	73
27	The SARS-CoV-2 subgenome landscape and its novel regulatory features. <i>Molecular Cell</i> , 2021, 81, 2135-2147.e5.	9.7	72
28	Development of natural sorbent based micro-solid-phase extraction for determination of phthalate esters in milk samples. <i>Analytica Chimica Acta</i> , 2016, 924, 35-44.	5.4	71
29	Dispersive liquid-liquid microextraction coupled with derivatization: A review of different modes, applications, and green aspects. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 106, 169-182.	11.4	69
30	Layered double hydroxide-modified membranes for water treatment: Recent advances and prospects. <i>Chemosphere</i> , 2022, 287, 132140.	8.2	68
31	PTFE-coated non-stick cookware and toxicity concerns: a perspective. <i>Environmental Science and Pollution Research</i> , 2017, 24, 23436-23440.	5.3	55
32	Membrane protected micro-solid-phase extraction of organochlorine pesticides in milk samples using zinc oxide incorporated carbon foam as sorbent. <i>Journal of Chromatography A</i> , 2016, 1475, 110-115.	3.7	53
33	Green Chemistry in Higher Education: State of the Art, Challenges, and Future Trends. <i>ChemSusChem</i> , 2018, 11, 2845-2858.	6.8	49
34	â€œGreenâ€•nature of the process of derivatization in analytical sample preparation. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 102, 16-31.	11.4	46
35	Greenness of magnetic nanomaterials in miniaturized extraction techniques: A review. <i>Talanta</i> , 2021, 225, 122053.	5.5	45
36	Application of microwave-assisted micro-solid-phase extraction for determination of parabens in human ovarian cancer tissues. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015, 1000, 192-198.	2.3	44

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37	Application of porous membrane bag enclosed alkaline treated Y-Zeolite for removal of heavy metal ions from water. <i>Microchemical Journal</i> , 2020, 152, 104289.	4.5	43
38	Forecasting hydrogen production potential in islamabad from solar energy using water electrolysis. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 1671-1681.	7.1	43
39	Porous graphene-based electrodes: Advances in electrochemical sensing of environmental contaminants. <i>Trends in Environmental Analytical Chemistry</i> , 2021, 30, e00120.	10.3	39
40	Evaluation of synergistic antimicrobial effect of vitamins (A, B1, B2, B6, B12, C, D, E and K) with antibiotics against resistant bacterial strains. <i>Journal of Global Antimicrobial Resistance</i> , 2018, 13, 231-236.	2.2	35
41	Stir-bar supported micro-solid-phase extraction for the determination of polychlorinated biphenyl congeners in serum samples. <i>Journal of Chromatography A</i> , 2016, 1455, 37-44.	3.7	34
42	Dendrimers based sorbents: Promising materials for analytical extractions. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 98, 114-127.	11.4	33
43	Nanomaterials: types, properties, recent advances, and toxicity concerns. <i>Current Opinion in Environmental Science and Health</i> , 2022, 25, 100319.	4.1	33
44	The Functional and Antiviral Activity of Interferon Alpha-Inducible IFI6 Against Hepatitis B Virus Replication and Gene Expression. <i>Frontiers in Immunology</i> , 2021, 12, 634937.	4.8	32
45	Evaluation of carbon foam as an adsorbent in stir-bar supported micro-solid-phase extraction coupled with gas chromatography–mass spectrometry for the determination of polyaromatic hydrocarbons in wastewater samples. <i>Microchemical Journal</i> , 2019, 144, 361-368.	4.5	24
46	Removal of methylene blue and rose bengal dyes from aqueous solutions using 1-naphthylammonium tetrachloroferrate (III). <i>Journal of Molecular Liquids</i> , 2021, 322, 114966.	4.9	24
47	Prediction of Drag Force on Vehicles in a Platoon Configuration Using Machine Learning. <i>IEEE Access</i> , 2020, 8, 201823-201834.	4.2	23
48	Ultrasound-assisted solvent extraction of organochlorine pesticides from porous membrane packed tea samples followed by GC–MS analysis. <i>Microchemical Journal</i> , 2020, 152, 104464.	4.5	21
49	Ionic liquid-based membrane-protected micro-solid-phase extraction of organochlorine pesticides in environmental water samples. <i>Microchemical Journal</i> , 2020, 158, 105295.	4.5	21
50	Determination of haloacetic acids in water using layered double hydroxides as a sorbent in dispersive solid–phase extraction followed by liquid chromatography with tandem mass spectrometry. <i>Journal of Separation Science</i> , 2016, 39, 3610-3615.	2.5	20
51	Modern solutions in magnetic analytical extractions of metals: A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 130, 115987.	11.4	20
52	Antiviral Activity of Interferon Alpha-Inducible Protein 27 Against Hepatitis B Virus Gene Expression and Replication. <i>Frontiers in Microbiology</i> , 2021, 12, 656353.	3.5	20
53	Inhibition of Hepatitis B Virus by AAV8-Derived CRISPR/SaCas9 Expressed From Liver-Specific Promoters. <i>Frontiers in Microbiology</i> , 2021, 12, 665184.	3.5	20
54	Ultrasound-assisted solvent extraction of porous membrane packed solid samples: A new approach for extraction of target analytes from solid samples. <i>Microchemical Journal</i> , 2019, 144, 117-123.	4.5	19

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55	Single-step microwave assisted headspace liquid-phase microextraction of trihalomethanes and halo ketones in biological samples. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015, 1007, 43-48.	2.3	16
56	Investigation of Heat Transfer and Pressure Drop in Microchannel Heat Sink Using Al ₂ O ₃ and ZrO ₂ Nanofluids. <i>Nanomaterials</i> , 2020, 10, 1796.	4.1	16
57	Effect of vortices on power output of vertical axis wind turbine (VAWT). <i>Sustainable Energy Technologies and Assessments</i> , 2020, 37, 100586.	2.7	15
58	First Investigations on the Removal of Tungsten Species from Water Using Multi-walled Carbon Nanotubes. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	2.4	15
59	Experimental investigation of energy harvesting behind a bluff body. <i>Journal of Renewable and Sustainable Energy</i> , 2020, 12, .	2.0	14
60	Analysis of the effect of passive measures on the energy consumption and zero-energy prospects of residential buildings in Pakistan. <i>Building Simulation</i> , 2021, 14, 1325-1342.	5.6	14
61	Ferrofluids based analytical extractions and evaluation of their greenness. <i>Journal of Molecular Liquids</i> , 2021, 339, 116901.	4.9	14
62	Bentonite-modified electrochemical sensors: a brief overview of features and applications. <i>Ionics</i> , 2018, 24, 19-32.	2.4	11
63	Flow-Assisted Electro-Enhanced Solid-Phase Microextraction for the Determination of Haloethers in Water Samples. <i>Chromatographia</i> , 2016, 79, 97-102.	1.3	10
64	Numerical Analysis of Heat Transfer and Pressure Drop in Helically Micro-Finned Tubes. <i>Processes</i> , 2021, 9, 754.	2.8	5
65	Investigation of Zero Moment Point in a Partially Filled Liquid Vessel Subjected to Roll Motion. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3992.	2.5	4
66	Role of Intracellular Adhesion icaAD and agr genes in Biofilm Formation in Clinical <i>S. aureus</i> Isolates and Assessment of Two Phenotypic Methods. <i>Pakistan Journal of Medical Sciences</i> , 2018, 34, 633-637.	0.6	3
67	Development of Membrane-Based Inverted Liquid-Liquid Extraction for the Simultaneous Extraction of Eight Metals in Seawater before ICP-OES Analysis. <i>Molecules</i> , 2020, 25, 3395.	3.8	3
68	Experimental investigation of energy harvesting eel in the wake of bluff body under ocean waves. <i>Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment</i> , 2021, 235, 81-92.	0.5	3
69	Applications of Nanomaterials in Miniaturized Extraction Techniques. , 2018, , 157-200.		2
70	Development of a truncated ellipsoidal reflector-based metal halide lamp solar simulator for characterization of photovoltaic cells. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, , 1-15.	2.3	2
71	Computational Study of Zigzag Spacer Design with Elliptical Cross-Section Filaments. <i>MATEC Web of Conferences</i> , 2020, 307, 01047.	0.2	2
72	Cognitive Computing for Human-Machine Interaction: An IBM Watson Implementation. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 400-406.	0.6	2

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73	Hydrodynamic Loading For Harbor Protection. , 2019, , .		1
74	Detection and tracking of bubbles in twoâ€phase air water flow for nonâ€convergent sinusoidal channel. IET Image Processing, 2019, 13, 692-697.	2.5	1
75	Sustainability of Project-Based Learning by Incorporating Transdisciplinary Design in Fabrication of Hydraulic Robot Arm. Sustainability, 2021, 13, 7949.	3.2	1
76	Organizational Socialization: An Important Factor for Knowledge Creation in Knowledge Based Industrial Organizations and Enterprises. Advances in Intelligent Systems and Computing, 2021, , 445-451.	0.6	1
77	Multi-level Optimization of Reactive Power Compensation in Industrial Nets with Heuristic Modelling Techniques. Advances in Intelligent Systems and Computing, 2021, , 429-438.	0.6	1
78	Simulation of Single Bubble Dynamics in Nucleate Pool Boiling Using a Conservative Level Set Method. , 2009, , .		0
79	Experimental Study of Thermoelectric Conversion Efficiency and Cold Side Thermal Management. MATEC Web of Conferences, 2020, 307, 01046.	0.2	0
80	A Methodology for Assessment of Thermal Comfort, Ergonomic and Human Factors Effect on Learning Performance in Classroom Environment. Advances in Intelligent Systems and Computing, 2021, , 439-444.	0.6	0
81	A retrospective analysis of pyogenic liver abscess and antibiotic resistivity of common pathogens in Peshawar. Biomedical Research and Therapy, 2020, 7, 4190-4196.	0.6	0