

Muhammad Nasir Amin

List of Publications by Year in descending order

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83
papers

2,089
citations

257429

24
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254170

43
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docs citations

84
times ranked

2634
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review of Removal of Pollutants from Water/Wastewater Using Different Types of Nanomaterials. <i>Advances in Materials Science and Engineering</i> , 2014, 2014, 1-24.	1.8	501
2	Adsorptive Removal of Reactive Black 5 from Wastewater Using Bentonite Clay: Isotherms, Kinetics and Thermodynamics. <i>Sustainability</i> , 2015, 7, 15302-15318.	3.2	133
3	Removal of Heavy Metals from Wastewater using Date Palm as a Biosorbent: A Comparative Review. <i>Sains Malaysiana</i> , 2018, 47, 35-49.	0.5	84
4	Catalytic Nitrate Removal in Continuous Bimetallic Cu/Pd/Nanoscale Zerovalent Iron System. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 6247-6257.	3.7	78
5	Roof-harvested rainwater for potable purposes: Application of solar collector disinfection (SOCO-DIS). <i>Water Research</i> , 2009, 43, 5225-5235.	11.3	69
6	Removal of Copper and Lead using Banana Biochar in Batch Adsorption Systems: Isotherms and Kinetic Studies. <i>Arabian Journal for Science and Engineering</i> , 2018, 43, 5711-5722.	3.0	66
7	Effects of Mg doping on optical and CO gas sensing properties of sensitive ZnO nanobelts. <i>CrystEngComm</i> , 2014, 16, 6080-6088.	2.6	52
8	Comparative study for adsorption of methylene blue dye on biochar derived from orange peel and banana biomass in aqueous solutions. <i>Environmental Monitoring and Assessment</i> , 2019, 191, 735.	2.7	46
9	Successful Application of Eucalyptus Camdulensis Biochar in the Batch Adsorption of Crystal Violet and Methylene Blue Dyes from Aqueous Solution. <i>Sustainability</i> , 2021, 13, 3600.	3.2	43
10	Field Assessment of Friction Head Loss and Friction Correction Factor Equations. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2012, 138, 166-176.	1.0	42
11	Silver disinfection of Pseudomonas aeruginosa and E. coli in rooftop harvested rainwater for potable purposes. <i>Science of the Total Environment</i> , 2012, 431, 20-25.	8.0	40
12	A best-fit probability distribution for the estimation of rainfall in northern regions of Pakistan. <i>Open Life Sciences</i> , 2016, 11, 432-440.	1.4	40
13	Application of biochar derived from date palm biomass for removal of lead and copper ions in a batch reactor: Kinetics and isotherm scrutiny. <i>Chemical Physics Letters</i> , 2019, 722, 64-73.	2.6	39
14	Improvement of solar based rainwater disinfection by using lemon and vinegar as catalysts. <i>Desalination</i> , 2011, 276, 416-424.	8.2	35
15	Effects of Catchment, First Flush, Storage Conditions, and Time on Microbial Quality in Rainwater Harvesting Systems. <i>Water Environment Research</i> , 2013, 85, 2317-2329.	2.7	35
16	Fano resonance based ultra high-contrast electromagnetic switch. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	34
17	Absorption Behaviours of Copper, Lead, and Arsenic in Aqueous Solution Using Date Palm Fibres and Orange Peel: Kinetics and Thermodynamics. <i>Polish Journal of Environmental Studies</i> , 2017, 26, 543-557.	1.2	34
18	Slow Wave Applications of Electromagnetically Induced Transparency in Microstrip Resonator. <i>Scientific Reports</i> , 2018, 8, 2357.	3.3	33

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19	Roof-harvested rainwater for potable purposes: application of solar disinfection (SODIS) and limitations. <i>Water Science and Technology</i> , 2009, 60, 419-431.	2.5	31
20	Synthesis of ZnO Nanostructures for Low Temperature CO and UV Sensing. <i>Sensors</i> , 2012, 12, 13842-13851.	3.8	31
21	A Non-Invasive Phase Sensor for Permittivity and Moisture Estimation Based on Anomalous Dispersion. <i>Scientific Reports</i> , 2016, 6, 28626.	3.3	31
22	Polarization Selective Electromagnetic-Induced Transparency in the Disordered Plasmonic Quasicrystal Structure. <i>Journal of Physical Chemistry C</i> , 2015, 119, 21633-21638.	3.1	30
23	Tunable Salisbury Screen Absorber Using Square Lattice of Plasmonic Nanodisk. <i>Plasmonics</i> , 2017, 12, 257-262.	3.4	29
24	Kinetic and Isotherm Studies of Ni ²⁺ and Pb ²⁺ Adsorption from Synthetic Wastewater Using <i>Eucalyptus camdulensis</i> Derived Biochar. <i>Sustainability</i> , 2021, 13, 3785.	3.2	28
25	Observations, projections and impacts of climate change on water resources in Arabian Peninsula: current and future scenarios. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	24
26	Design and analysis of functional multiwalled carbon nanotubes for infrared sensors. <i>Sensors and Actuators A: Physical</i> , 2013, 203, 142-148.	4.1	20
27	Water environmental and sanitation status in disaster relief of Pakistan's 2005 earthquake. <i>Desalination</i> , 2009, 248, 436-445.	8.2	19
28	Adaptation of climate variability/extreme in arid environment of the Arabian peninsula by rainwater harvesting and management. <i>International Journal of Environmental Science and Technology</i> , 2013, 10, 27-36.	3.5	19
29	An Interference-Based Quadruple-L Cross Metasurface Absorber for RF Energy Harvesting. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2021, 20, 2043-2047.	4.0	19
30	Nonspontaneous and multilayer adsorption of malachite green dye by <i>Acacia nilotica</i> waste with dominance of physisorption. <i>Water Science and Technology</i> , 2017, 76, 1805-1815.	2.5	18
31	Quasi-Crystal Metasurface for Simultaneous Half- and Quarter-Wave Plate Operation. <i>Scientific Reports</i> , 2018, 8, 15743.	3.3	18
32	Synthesis and characterization of magnesium doped ZnO nanostructures: methane (CH ₄) detection. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 5257-5265.	2.2	17
33	Synthesis, characterization, and application of date palm leaf waste-derived biochar to remove cadmium and hazardous cationic dyes from synthetic wastewater. <i>Arabian Journal of Geosciences</i> , 2019, 12, 1.	1.3	17
34	Comparative Removal of Lead and Nickel Ions onto Nanofibrous Sheet of Activated Polyacrylonitrile in Batch Adsorption and Application of Conventional Kinetic and Isotherm Models. <i>Membranes</i> , 2021, 11, 10.	3.0	17
35	Effective adsorption of methylene blue dye using activated carbon developed from the rosemary plant: isotherms and kinetic studies. , 0, 74, 336-345.		17
36	Solar Disinfection of <i>Pseudomonas aeruginosa</i> in Harvested Rainwater: A Step towards Potability of Rainwater. <i>PLoS ONE</i> , 2014, 9, e90743.	2.5	16

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37	Application of the biochar derived from orange peel for effective biosorption of copper and cadmium in batch studies: isotherm models and kinetic studies. <i>Arabian Journal of Geosciences</i> , 2019, 12, 1.	1.3	16
38	Conversion of Waste Biomass into Activated Carbon and Evaluation of Environmental Consequences Using Life Cycle Assessment. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5741.	2.5	16
39	A review of nanomaterials based membranes for removal of contaminants from polluted waters. <i>Membrane Water Treatment</i> , 2014, 5, 123-146.	0.5	15
40	Batch and fixed-bed column studies for the biosorption of Cu(II) and Pb(II) by raw and treated date palm leaves and orange peel. <i>Global Nest Journal</i> , 2017, 19, 464-478.	0.1	15
41	Synergistic effect of nano-sized mackinawite with cyano-cobalamin in cement slurries for reductive dechlorination of tetrachloroethylene. <i>Journal of Hazardous Materials</i> , 2016, 311, 1-10.	12.4	14
42	Multiple higher-order Fano resonances in plasmonic hollow cylindrical nanodimer. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 120, 641-649.	2.3	13
43	Adsorption of copper (Cu ²⁺) from aqueous solution using date palm trunk fibre: isotherms and kinetics. <i>Desalination and Water Treatment</i> , 2016, 57, 22454-22466.	1.0	12
44	Broadband waveplate operation by orthotropic metasurface reflector. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	12
45	Adsorption of Divalent Copper Ions from Synthetic Wastewater Using Layered Double Hydroxides (NiZnFe) and Its Composites with Banana Biochar and Carbon Nanotubes. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	2.4	12
46	Enhancing co-metabolic degradation of trichloroethylene with toluene using <i>Burkholderia vietnamiensis</i> G4 encapsulated in polyethylene glycol polymer. <i>Environmental Technology (United Kingdom)</i> , 2021, 42, 1071-1080.	0.0	10
47	Development of highly sensitive UV sensor using morphology tuned ZnO nanostructures. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 118, 595-603.	2.3	10
48	Effect of the irrigation frequency and quality on yield, growth and water productivity of maize crops. <i>Quality Assurance and Safety of Crops and Foods</i> , 2015, 7, 721-730.	3.4	9
49	Comparative study of the absorptive potential of raw and activated carbon <i>Acacia nilotica</i> for Reactive Black 5 dye. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	2.7	9
50	A Brief Review on Fruit and Vegetable Extracts as Corrosion Inhibitors in Acidic Environments. <i>Molecules</i> , 2022, 27, 2991.	3.8	9
51	Antimycotic Activity of Nanoparticles of MgO, FeO and ZnO on some Pathogenic Fungi. <i>International Journal of Manufacturing, Materials, and Mechanical Engineering</i> , 2012, 2, 59-70.	0.4	8
52	Influence of Homogenizing Methodology on Mechanical and Tribological Performance of Powder Metallurgy Processed Titanium Composites Reinforced by Graphene Nanoplatelets. <i>Molecules</i> , 2022, 27, 2666.	3.8	8
53	Scope/need of soft path water resource management in developing countries. <i>Water Science and Technology: Water Supply</i> , 2007, 7, 185-192.	2.1	7
54	An infrared energy harvester based on radar cross-section reduction of chiral metasurfaces through phase cancellation approach. <i>Scientific Reports</i> , 2021, 11, 11492.	3.3	7

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55	Ultra-long multicolor belts and unique morphologies of tin-doped zinc oxide nanostructures. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 115, 275-281.	2.3	6
56	Comparative Sorption of Nickel from an Aqueous Solution Using Biochar Derived from Banana and Orange Peel Using a Batch System: Kinetic and Isotherm Models. <i>Arabian Journal for Science and Engineering</i> , 2019, 44, 10105-10116.	3.0	6
57	Simultaneous Degradation of Trichloroethylene and Toluene by <i>Burkholderia cepacia</i> G4 and the Effect of Biotransformation on Bacterial Density. <i>Clean - Soil, Air, Water</i> , 2014, 42, 998-1003.	1.1	5
58	Cost-effective and sustainable solutions to enhance the solar disinfection efficiency improving the microbiological quality of rooftop-harvested rainwater. <i>Desalination and Water Treatment</i> , 2014, 52, 5252-5263.	1.0	5
59	Optical and gas sensing properties of SnO ₂ nanowires grown by vapor-liquid-solid mechanism. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 17993-18002.	2.2	5
60	Structural study of monoclinic TiO ₂ nanostructures and photocatalytic applications for degradation of crystal violet dye. <i>Modern Physics Letters B</i> , 2017, 31, 1750264.	1.9	5
61	Application of Zn-Fe layered double hydroxide and its composites with biochar and carbon nanotubes to the adsorption of lead in a batch system: kinetics and isotherms. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 5613-5627.	3.0	5
62	Degradation of phenol and Bisphenol-A using discharged water generating system. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2007, 56, 203-216.	1.4	4
63	Variation of <i>Pseudomonas aeruginosa</i> in Rainwater Harvesting Systems: Effects of Seasons, Catchments and Storage Conditions. <i>Clean - Soil, Air, Water</i> , 2014, 42, 893-900.	1.1	4
64	Wave discrimination at C-band frequencies in microstrip structures inspired by electromagnetically induced transparency. <i>Scientific Reports</i> , 2021, 11, 2983.	3.3	4
65	Environmental Dynamics and Engineered Systems for the Degradation of Trichloroethylene: A Critical Review. <i>Global Nest Journal</i> , 2014, 16, 316-328.	0.1	4
66	Ethylenediaminetetraacetate functionalized MgFe layered double hydroxide/biochar composites for highly efficient adsorptive removal of lead ions from aqueous solutions. <i>PLoS ONE</i> , 2022, 17, e0265024.	2.5	4
67	SOFT PATH WATER MANAGEMENT IN DRY AND ARID REGIONS OF THE ARABIAN PENINSULA BY RAINWATER HARVESTING. <i>American Journal of Environmental Sciences</i> , 2013, 9, 156-163.	0.5	3
68	Comparison of mixed distribution with EV1 and GEV components for analyzing hydrologic data containing outlier. <i>Environmental Earth Sciences</i> , 2015, 73, 1369-1375.	2.7	3
69	Synthesis of SnO ₂ nanowires for CO, CH ₄ and CH ₃ OH gases sensing. <i>International Journal of Distributed Sensor Networks</i> , 2018, 14, 155014771879075.	2.2	3
70	EFFECTS OF UV BLOCKING AND HEAT-RESISTANT PLASTIC BAGS ON SOLAR DISINFECTION OF RAINWATER AT DIFFERENT WEATHERS. <i>Environmental Engineering and Management Journal</i> , 2014, 13, 457-469.	0.6	3
71	Cometabolic Degradation Kinetics of Trichloroethylene Based on Toluene Enhancement by Encapsulated <i>Burkholderia cepacia</i> G4. <i>Clean - Soil, Air, Water</i> , 2014, 42, 1642-1649.	1.1	2
72	A Component-Based Study of the Effect of Diameter on Bond and Anchorage Characteristics of Blind-Bolted Connections. <i>PLoS ONE</i> , 2016, 11, e0149490.	2.5	2

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73	Nanoplasmonic Light Trapping Metascreen Encompassing Spectrally Dense Region of Solar Spectrum. <i>Plasmonics</i> , 2020, 15, 861-867.	3.4	2
74	Estimation of shortwave solar radiations in the Arabian Peninsula: a new approach. <i>Desalination and Water Treatment</i> , 0, , 1-14.	1.0	1
75	Diameter control of carbon nanotubes using argon/acetylene mixture and their application as IR sensor. <i>Modern Physics Letters B</i> , 2015, 29, 1550131.	1.9	1
76	A Lumped Element Analog of Dual-Stub Microwave Electromagnetically Induced Transparency Resonator. , 2018, , .		1
77	Acoustic and Electromagnetic Effective Medium Properties of Fano Resonant Metamaterials. , 2019, , .		1
78	High Q-factor Electro-Acoustic Cavity Resonator for Sensing Applications. , 2020, , .		0
79	Single particle UV sensor and effect of subsequent heat treatment on the morphology and optical properties of unique ZnO nanorod. <i>Annales De Chimie: Science Des Materiaux</i> , 2013, 38, 233-240.	0.4	0
80	Acacia nilotica for adsorption of Bismarck Brown Y and Reactive Black 5 dyes in batch reactors: isotherm models and kinetics studies. , 0, 198, 386-395.		0
81	Antimycotic Activity of Nanoparticles of MgO, FeO and ZnO on some Pathogenic Fungi. , 0, , 1289-1299.		0
82	Synthesis of a novel EDTA-functionalized nanocomposite of Fe ₃ O ₄ -Eucalyptus camaldulensis green carbon fiber for selective separation of lead ions from synthetic wastewater: isotherm and kinetic studies. <i>Applied Nanoscience (Switzerland)</i> , 0, , 1.	3.1	0
83	Three-Port Lorentz Resonance Based Permittivity Sensor and Microwave Comparator. , 2021, , .		0