Mostafa R Abukhadra

List of Publications by Year
in descending order

190	6,723	46918 47	91712 69
papers	citations	h-index	g-index

198	198	198	4078
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Removal of safranin dye from water using polypyrrole nanofiber/Zn-Fe layered double hydroxide nanocomposite (Ppy NF/Zn-Fe LDH) of enhanced adsorption and photocatalytic properties. Science of the Total Environment, 2018, 640-641, 352-363.	3.9	210
2	Photocatalytic degradation of malachite green dye using chitosan supported ZnO and Ceâ€“ZnO nano-flowers under visible light. Journal of Environmental Management, 2020, 258, 110043.	3.8	205
3	Diatomite supported by CaO/MgO nanocomposite as heterogeneous catalyst for biodiesel production from waste cooking oil. Journal of Molecular Liquids, 2019, 279, 224-231.	2.3	177
4	TiO2 Nanoribbons/Carbon Nanotubes Composite with Enhanced Photocatalytic Activity; Fabrication, Characterization, and Application. Scientific Reports, 2018, 8, 781.	1.6	167
5	Green fabrication of bentonite/chitosan@cobalt oxide composite (BE/CH@Co) of enhanced adsorption and advanced oxidation removal of Congo red dye and Cr (VI) from water. International Journal of Biological Macromolecules, 2019, 126, 402-413.	3.6	164
6	Ni-doped and Ni/Cr co-doped TiO2 nanotubes for enhancement of photocatalytic degradation of methylene blue. Journal of Colloid and Interface Science, 2019, 555, 31-41.	5.0	134
7	Removal of Congo red, methylene blue and Cr(VI) ions from water using natural serpentine. Journal of the Taiwan Institute of Chemical Engineers, 2018, 82, 102-116.	2.7	122
8	Photocatalytic removal of Congo red dye using MCM-48/Ni 2 O 3 composite synthesized based on silica gel extracted from rice husk ash; fabrication and application. Journal of Environmental Management, 2017, 204, 189-199.	3.8	116
9	Phosphate removal from solution by composite of MCM-41 silica with rice husk: Kinetic and equilibrium studies. Microporous and Mesoporous Materials, 2016, 224, 51-57.	2.2	115
10	Novel bentonite/zeolite-NaP composite efficiently removes methylene blue and Congo red dyes. Environmental Chemistry Letters, 2018, 16, 275-280.	8.3	112
11	Nanostructured ZnO thin films for self-cleaning applications. RSC Advances, 2017, 7, 617-631.	1.7	104
12	Facile conversion of kaolinite into clay nanotubes (KNTs) of enhanced adsorption properties for toxic heavy metals (Zn2+, Cd2+, Pb2+, and Cr6+) from water. Journal of Hazardous Materials, 2019, 374, 296-308.	6.5	104
13	A Review on Green Synthesis of TiO2 NPs: Photocatalysis and Antimicrobial Applications. Polymers, 2022, 14, 1444.	2.0	95
14	Effective decontamination of phosphate and ammonium utilizing novel muscovite/phillipsite composite; equilibrium investigation and realistic application. Science of the Total Environment, 2019, 667, 101-111.	3.9	94
15	Adsorption Removal of Safranin Dye Contaminants from Water Using Various Types of Natural Zeolite. Silicon, 2019, 11, 1635-1647.	1.8	90
16	Effective decontamination of As(V), Hg(II), and U(VI) toxic ions from water using novel muscovite/zeolite aluminosilicate composite: adsorption behavior and mechanism. Environmental Science and Pollution Research, 2020, 27, 13247-13260.	2.7	81
17	Adsorption behavior of inorganic- and organic-modified kaolinite for Congo red dye from water, kinetic modeling, and equilibrium studies. Journal of Sol-Gel Science and Technology, 2018, 87, 427-441.	1.1	80
18	Insight into novel Î²-cyclodextrin-grafted-poly (N-vinylcaprolactam) nanogel structures as advanced carriers for 5-fluorouracil: Equilibrium behavior and pharmacokinetic modeling. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 586, 124197.	2.3	77

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19	Photocatalytic properties of PbS/graphene oxide/polyaniline electrode for hydrogen generation. Scientific Reports, 2017, 7, 14100.	1.6	76
20	K+ trapped kaolinite (Kaol/K+) as low cost and eco-friendly basic heterogeneous catalyst in the transesterification of commercial waste cooking oil into biodiesel. Energy Conversion and Management, 2018, 177, 468-476.	4.4	75
21	Cosmetic and pharmaceutical qualifications of Egyptian bentonite and its suitability as drug carrier for Praziquantel drug. European Journal of Pharmaceutical Sciences, 2018, 115, 320-329.	1.9	74
22	Investigation the adsorption properties of graphene oxide and polyaniline nano/micro structures for efficient removal of toxic Cr(VI) contaminants from aqueous solutions; kinetic and equilibrium studies. Rendiconti Lincei, 2018, 29, 141-154.	1.0	74
23	Synthesis and characterization of biogenic iron oxides of different nanomorphologies from pomegranate peels for efficient solar hydrogen production. Journal of Materials Research and Technology, 2020, 9, 4255-4271.	2.6	74
24	Removal of Ammonia from Aqueous Solutions, Ground Water, and Wastewater Using Mechanically Activated Clinoptilolite and Synthetic Zeolite-A: Kinetic and Equilibrium Studies. Water, Air, and Soil Pollution, 2017, 228, 1.	1.1	72
25	Synthesis of chitosan/MCM-48 and Î²-cyclodextrin/MCM-48 composites as bio-adsorbents for environmental removal of Cd2+ ions; kinetic and equilibrium studies. Reactive and Functional Polymers, 2020, 154, 104675.	2.0	72
26	Effect of Cu, Ni and Pb doping on the photo-electrochemical activity of ZnO thin films. RSC Advances, 2019, 9, 7729-7736.	1.7	71
27	Structural, morphological, optical properties and wettability of spin-coated copper oxide; influences of film thickness, Ni, and (La, Ni) co-doping. Journal of Materials Science, 2016, 51, 5924-5938.	1.7	70
28	Heulandite/polyaniline hybrid composite for efficient removal of acidic dye from water; kinetic, equilibrium studies and statistical optimization. Advanced Powder Technology, 2018, 29, 2501-2511.	2.0	68
29	Superior removal of Co2+, Cu2+ and Zn2+ contaminants from water utilizing spongy Ni/Fe carbonateâ€“fluorapatite; preparation, application and mechanism. Ecotoxicology and Environmental Safety, 2018, 157, 358-368.	2.9	65
30	Enhanced photoelectrochemical water splitting activity of carbon nanotubes@TiO2 nanoribbons in different electrolytes. Chemosphere, 2020, 238, 124554.	4.2	64
31	Synthesis of Na+ trapped bentonite/zeolite-P composite as a novel catalyst for effective production of biodiesel from palm oil; Effect of ultrasonic irradiation and mechanism. Energy Conversion and Management, 2019, 196, 739-750.	4.4	62
32	Structural, optical and photocatalytic properties of Fe and (Co, Fe) co-doped copper oxide spin coated films. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 149, 638-646.	2.0	61
33	Preparation of polyaniline/PbS core-shell nano/microcomposite and its application for photocatalytic H2 electrogeneration from H2O. Scientific Reports, 2018, 8, 1107.	1.6	61
34	Effective oxidation of methyl parathion pesticide in water over recycled glass based-MCM-41 decorated by green Co3O4 nanoparticles. Environmental Pollution, 2020, 259, 113874.	3.7	60
35	Recycling of glass in synthesis of MCM-48 mesoporous silica as catalyst support for Ni2O3 photocatalyst for Congo red dye removal. Clean Technologies and Environmental Policy, 2018, 20, 13-28.	2.1	59
36	Photocatalytic degradation and photo-Fenton oxidation of Congo red dye pollutants in water using natural chromiteâ€"response surface optimization. Applied Water Science, 2017, 7, 4743-4756.	2.8	57

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37	Upgraded modified forms of bituminous coal for the removal of safranin-T dye from aqueous solution. Environmental Science and Pollution Research, 2017, 24, 18135-18151.	2.7	57
38	Enhanced photocatalytic degradation of acephate pesticide over MCM-41/Co3O4 nanocomposite synthesized from rice husk silica gel and Peach leaves. Journal of Hazardous Materials, 2020, 389, 122129.	6.5	56
39	Preparation of hexagonal nanoporous Al2O3/TiO2/TiN as a novel photodetector with high efficiency. Scientific Reports, 2021, 11, 17572.	1.6	55
40	Geochemical evaluation and environmental application of Yemeni natural zeolite as sorbent for Cd2+ from solution: kinetic modeling, equilibrium studies, and statistical optimization. Environmental Earth Sciences, 2017, 76, 1.	1.3	54
41	Insight into the photocatalytic properties of diatomite@Ni/NiO composite for effective photo-degradation of malachite green dye and photo-reduction of Cr (VI) under visible light. Journal of Environmental Management, 2020, 254, 109799.	3.8	53
42	The photocatalytic performance of silica fume based Co3O4/MCM-41 green nanocomposite for instantaneous degradation of Omethoate pesticide under visible light. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 392, 112434.	2.0	53
43	Enhanced photocatalytic removal of Safranin-T dye under sunlight within minute time intervals using heulandite/polyaniline@ nickel oxide composite as a novel photocatalyst. Ecotoxicology and Environmental Safety, 2018, 162, 261-271.	2.9	52
44	Instantaneous photocatalytic degradation of malachite green dye under visible light using novel green Coâ€“ZnO/algae composites. Research on Chemical Intermediates, 2020, 46, 1955-1973.	1.3	52
45	Insight into the Loading and Release Properties of an Exfoliated Kaolinite/Cellulose Fiber (EXK/CF) Composite as a Carrier for Oxaliplatin Drug: Cytotoxicity and Release Kinetics. ACS Omega, 2020, 5, 19165-19173.	1.6	52
46	Insight into chitosan/zeolite-A nanocomposite as an advanced carrier for levofloxacin and its anti-inflammatory properties; loading, release, and anti-inflammatory studies. International Journal of Biological Macromolecules, 2021, 179, 206-216.	3.6	52
47	Preparation and Characterization of Polyaniline and Ag/ Polyaniline Composite Nanoporous Particles and Their Antimicrobial Activities. Journal of Polymers and the Environment, 2018, 26, 434-442.	2.4	50
48	Surface decoration of diatomite by Ni/NiO nanoparticles as hybrid composite of enhanced adsorption properties for malachite green dye and hexavalent chromium. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 577, 583-593.	2.3	50
49	Facile synthesis of bentonite/biopolymer composites as low-cost carriers for 5-fluorouracil drug; equilibrium studies and pharmacokinetic behavior. International Journal of Biological Macromolecules, 2019, 141, 721-731.	3.6	48
50	Adsorption properties of kaolinite-based nanocomposites for Fe and Mn pollutants from aqueous solutions and raw ground water: kinetics and equilibrium studies. Environmental Science and Pollution Research, 2017, 24, 22954-22966.	2.7	47
51	Synthesis of advanced MgAl-LDH based geopolymer as a potential catalyst in the conversion of waste sunflower oil into biodiesel: Response surface studies. Fuel, 2020, 282, 118865.	3.4	47
52	Insight into the adsorption and oxidation activity of a ZnO/piezoelectric quartz core-shell for enhanced decontamination of ibuprofen: Steric, energetic, and oxidation studies. Chemical Engineering Journal, 2022, 431, 134312.	6.6	46
53	Structural and physical properties of polyaniline/silver oxide/silver nanocomposite electrode for supercapacitor applications. International Journal of Energy Research, 2022, 46, 6702-6710.	2.2	45
54	Highly Sensitive and Selective In-Situ SERS Detection of Pb2+, Hg2+, and Cd2+ Using Nanoporous Membrane Functionalized with CNTs. Scientific Reports, 2016, 6, 25307.	1.6	44

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55	Insight into the Adsorption and Photocatalytic Behaviors of an Organo-bentonite/Co₃O₄ Green Nanocomposite for Malachite Green Synthetic Dye and Cr(VI) Metal Ions: Application and Mechanisms. ACS Omega, 2020, 5, 2766-2778.	1.6	44
56	Effective retention of inorganic Selenium ions (Se (VI) and Se (IV)) using novel sodalite structures from muscovite; characterization and mechanism. Journal of the Taiwan Institute of Chemical Engineers, 2021, 120, 116-126.	2.7	44
57	Synthesis of cellulose fibers/Zeolite-A nanocomposite as an environmental adsorbent for organic and inorganic selenium ions; Characterization and advanced equilibrium studies. Journal of Molecular Liquids, 2022, 360, 119573.	2.3	41
58	Highly sensitive Auâ€“Fe2O3â€“Au and Fe2O3â€“Auâ€“Fe2O3 biosensors utilizing strong surface plasmon resonance. Applied Physics B: Lasers and Optics, 2020, 126, 1.	1.1	40
59	Sonication induced transesterification of castor oil into biodiesel in the presence of MgO/CaO nanorods as a novel basic catalyst: Characterization and optimization. Chemical Engineering and Processing: Process Intensification, 2020, 154, 108024.	1.8	40
60	Synthesis of Mesoporous Graphite Functionalized by Nitrogen for Efficient Removal of Safranin Dye Utilizing Rice Husk Ash; Equilibrium Studies and Response Surface Optimization. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 279-294.	1.9	39
61	Instantaneous oxidation of levofloxacin as toxic pharmaceutical residuals in water using clay nanotubes decorated by ZnO (ZnO/KNTs) as a novel photocatalyst under visible light source. Journal of Environmental Management, 2020, 271, 111019.	3.8	37
62	Fabrication of ZnO/CNTs for Application in CO2 Sensor at Room Temperature. Nanomaterials, 2021, 11, 3087.	1.9	37
63	Graphite/rolled graphene oxide/carbon nanotube photoelectrode for water splitting of exhaust car solution. International Journal of Energy Research, 2020, 44, 7687-7697.	2.2	36
64	Synthesis and characterization of kaolinite nanotubes (KNTs) as a novel carrier for 5-fluorouracil of high encapsulation properties and controlled release. Inorganic Chemistry Communication, 2019, 103, 30-36.	1.8	35
65	TiO2/TiOxNY hollow mushrooms-like nanocomposite photoanode for hydrogen electrogeneration. Journal of Porous Materials, 2020, 27, 133-139.	1.3	35
66	Insight into the Loading and Release Properties of MCM-48/Biopolymer Composites as Carriers for 5-Fluorouracil: Equilibrium Modeling and Pharmacokinetic Studies. ACS Omega, 2020, 5, 11745-11755.	1.6	35
67	Synthesis of Chitosan/Diatomite Composite as an Advanced Delivery System for Ibuprofen Drug; Equilibrium Studies and the Release Profile. ACS Omega, 2021, 6, 13406-13416.	1.6	34
68	Synthesis and Characterization of Green ZnO@polynaniline/Bentonite Tripartite Structure (G.Zn@PN/BE) as Adsorbent for As (V) Ions: Integration, Steric, and Energetic Properties. Polymers, 2022, 14, 2329.	2.0	34
69	Simple and Low-Cost Synthesis of Ba-Doped CuO Thin Films for Highly Efficient Solar Generation of Hydrogen. Journal of Physical Chemistry C, 2020, 124, 22347-22356.	1.5	33
70	Efficient photocatalytic removal of safarnin-O dye pollutants from water under sunlight using synthetic bentonite/polyaniline@Ni2O3 photocatalyst of enhanced properties. Environmental Science and Pollution Research, 2018, 25, 33264-33276.	2.7	32
71	Facile Fabrication of Polyaniline/Pbs Nanocomposite for High-Performance Supercapacitor Application. Nanomaterials, 2022, 12, 817.	1.9	32
72	Spongy Ni/Fe carbonate-fluorapatite catalyst for efficient conversion of cooking oil waste into biodiesel. Environmental Chemistry Letters, 2018, 16, 665-670.	8.3	31

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73	Electropolymerization of mâ€Toluidin on Platinum Electrode from Aqueous Acidic Solution and Character of the Obtained Polymer. Advances in Polymer Technology, 2018, 37, 126-136.	0.8	31
74	Zinc aluminate nanoparticles: Preparation, characterization and application as efficient and economic catalyst in transformation of waste cooking oil into biodiesel. Journal of Molecular Liquids, 2020, 302, 112377.	2.3	31
75	Insight into carbohydrate polymers (chitosan and 2- hydroxyethyl methacrylate/methyl methacrylate) intercalated bentonite-based nanocomposites as multifunctional and environmental adsorbents for methyl parathion pesticide. International Journal of Biological Macromolecules, 2021, 167, 335-344.	3.6	31
76	Titanium dioxide nanoribbons/multi-walled carbon nanotube nanocomposite blended polyethersulfone membrane for brackish water desalination. Desalination, 2018, 444, 129-141.	4.0	30
77	Enhancing the removal of organic and inorganic selenium ions using an exfoliated kaolinite/cellulose fibres nanocomposite. Carbohydrate Polymers, 2021, 252, 117163.	5.1	30
78	Effect of plasmonic au nanoparticles on the photoactivity of polyaniline/indium tin oxide electrodes for water splitting. Environmental Progress and Sustainable Energy, 2019, 38, 13171.	1.3	29
79	Promoting the decontamination of different types of water pollutants (Cd2+, safranin dye, and) Tj ETQq1 1 0.784314 rgBT /Overlock 1 of Environmental Management, 2020, 273, 111130.	3.8	29
80	Effect of Morphology and Plasmonic on Au/ZnO Films for Efficient Photoelectrochemical Water Splitting. Nanomaterials, 2021, 11, 2338.	1.9	28
81	Optimization of the Active Layer P3HT:PCBM for Organic Solar Cell. Coatings, 2021, 11, 863.	1.2	27
82	Design, characterization, and adsorption properties of Padina gymnospora/zeolite nanocomposite for Congo red dye removal from wastewater. Scientific Reports, 2021, 11, 21058.	1.6	27
83	Insight into the role of integrated carbohydrate polymers (starch, chitosan, and Î²-cyclodextrin) with mesoporous silica as carriers for ibuprofen drug; equilibrium and pharmacokinetic properties. International Journal of Biological Macromolecules, 2020, 156, 537-547.	3.6	26
84	Efficient photoselectrochemical hydrogen production utilizing of <scp> APbI ₃ </scp> (A) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.2	26
85	Insight into the role of the zeolitization process in enhancing the adsorption performance of kaolinite/diatomite geopolymer for effective retention of Sr (II) ions; batch and column studies. Journal of Environmental Management, 2021, 294, 112984.	3.8	26
86	Nanoporous TiN/TiO2/Alumina Membrane for Photoelectrochemical Hydrogen Production from Sewage Water. Nanomaterials, 2021, 11, 2617.	1.9	26
87	Converting Sewage Water into H2 Fuel Gas Using Cu/CuO Nanoporous Photocatalytic Electrodes. Materials, 2022, 15, 1489.	1.3	26
88	Phyto-Capped Ag Nanoparticles: Green Synthesis, Characterization, and Catalytic and Antioxidant Activities. Nanomaterials, 2022, 12, 373.	1.9	25
89	Characterization of Î²-cyclodextrin/phillipsite (Î²-CD/Ph) composite as a potential carrier for oxaliplatin as therapy for colorectal cancer; loading, release, and cytotoxicity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 648, 129144.	2.3	25
90	Evaluation and characterization of Egyptian ferruginous kaolinite as adsorbent and heterogeneous catalyst for effective removal of safranin-O cationic dye from water. Arabian Journal of Geosciences, 2020, 13, 1.	0.6	24

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91	m-Toluidine Polymer Film Coated Platinum Electrode as a pH Sensor by Potentiometric Methods. Sensor Letters, 2015, 13, 961-966.	0.4	24
92	The efficiency of M (M = Li, Na, or Cs) doped <scp>CdS</scp> nanomaterials in optoelectronic applications. International Journal of Energy Research, 2022, 46, 8443-8451.	2.2	24
93	Photocatalytic hydrogen generation from raw water using zeolite/polyaniline@Ni2O3 nanocomposite as a novel photo-electrode. Energy, 2019, 187, 115943.	4.5	23
94	Recycling of different solid wastes in synthesis of high-order mesoporous silica as adsorbent for safranin dye. International Journal of Environmental Science and Technology, 2019, 16, 7573-7582.	1.8	23
95	Efficient MoWO3/VO2/MoS2/Si UV Schottky photodetectors; MoS2 optimization and monoclinic VO2 surface modifications. Scientific Reports, 2020, 10, 15926.	1.6	23
96	Insight into chitosan/mesoporous silica nanocomposites as eco-friendly adsorbent for enhanced retention of U (VI) and Sr (II) from aqueous solutions and real water. International Journal of Biological Macromolecules, 2021, 173, 435-444.	3.6	23
97	Synthesis, Optical Characterizations and Solar Energy Applications of New Schiff Base Materials. Materials, 2021, 14, 3718.	1.3	23
98	Effect of Annealing Temperature on the Photoactivity of ITO/VO₂(M)/Au Film Electrodes for Water Splitting. Journal of Nanoscience and Nanotechnology, 2020, 20, 4120-4130.	0.9	23
99	Poly(mâ€toluidine)/rolled graphene oxide nanocomposite photocathode for hydrogen generation from wastewater. International Journal of Energy Research, 2022, 46, 11943-11956.	2.2	23
100	Green Synthesis of CS-TiO2 NPs for Efficient Photocatalytic Degradation of Methylene Blue Dye. Polymers, 2022, 14, 2677.	2.0	23
101	Transesterification of commercial waste cooking oil into biodiesel over innovative alkali trapped zeolite nanocomposite as green and environmental catalysts. Sustainable Chemistry and Pharmacy, 2020, 17, 100289.	1.6	22
102	The effect of different green alkali modification processes on the clinoptilolite surface as adsorbent for ammonium ions; characterization and application. Microporous and Mesoporous Materials, 2020, 300, 110145.	2.2	22
103	Insight into the catalytic transformation of the waste products of some edible oils (corn oil and) Tj ETQq1 1 0.784314 rgBT /Overlock 1 111340.	1.0	22
104	Optical investigations and photoactive solar energy applications of new synthesized Schiff base liquid crystal derivatives. Scientific Reports, 2021, 11, 15046.	1.6	22
105	Instantaneous Adsorption of Synthetic Dyes from an Aqueous Environment Using Kaolinite Nanotubes: Equilibrium and Thermodynamic Studies. ACS Omega, 2021, 6, 845-856.	1.6	22
106	Enhanced Adsorption of Toxic and Biologically Active Levofloxacin Residuals from Wastewater Using Clay Nanotubes as a Novel Fixed Bed: Column Performance and Optimization. ACS Omega, 2020, 5, 26195-26205.	1.6	20
107	Effective and environmental retention of some radioactive elements (U (VI), Sr (II), and Ba (II)) within bentonite/zeolite hybrid structure; equilibrium and realistic study. Inorganic Chemistry Communication, 2020, 119, 108053.	1.8	20
108	Effective Sequestration of Phosphate and Ammonium Ions by the Bentonite/Zeolite Naâ€"P Composite as a Simple Technique to Control the Eutrophication Phenomenon: Realistic Studies. ACS Omega, 2020, 5, 14656-14668.	1.6	20

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109	Insight into the antimicrobial and photocatalytic properties of NiO impregnated MCM-48 for effective removal of pathogenic bacteria and toxic levofloxacin residuals. Microporous and Mesoporous Materials, 2021, 312, 110769.	2.2	20
110	Synthesis of chitosan/Al-MCM-41 nanocomposite from natural microcline as a carrier for levofloxacin drug of controlled loading and release properties; Equilibrium, release kinetic, and cytotoxicity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 624, 126805.	2.3	20
111	Fabrication and Application of Zeolite/Acanthophora Spicifera Nanoporous Composite for Adsorption of Congo Red Dye from Wastewater. Nanomaterials, 2021, 11, 2441.	1.9	20
112	Effective removal of different species of organophosphorus pesticides (acephate, omthosate, and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 and Innovation, 2021, 24, 101875.	3.0	20
113	Enhanced decontamination of Levofloxacin residuals from water using recycled glass based a green zinc oxide/mesoporous silica nanocomposite; adsorption and advanced oxidation studies. Journal of Cleaner Production, 2022, 356, 131836.	4.6	20
114	Synthesis of novel nanoporous zinc phosphate/hydroxyapatite nano-rods (ZPh/HPANRs) core/shell for enhanced adsorption of Ni2+ and Co2+ ions: Characterization and application. Journal of Molecular Liquids, 2022, 360, 119527.	2.3	20
115	Enhanced decontamination of levofloxacin as toxic pharmaceutical residuals from water using CaO/MgO nanorods as a promising adsorbent. Scientific Reports, 2020, 10, 14828.	1.6	19
116	Synthesis of zeolite/geopolymer composite for enhanced sequestration of phosphate (PO43â˜) and ammonium (NH4+) ions; equilibrium properties and realistic study. Journal of Environmental Management, 2021, 300, 113723.	3.8	19
117	Application of Quadratic Polynomial Model for the Uptake of Iron from Aqueous Solutions by Natural and Modified Egyptian Bentonite. American Journal of Applied Chemistry, 2015, 3, 179.	0.3	19
118	Evaluation of different forms of Egyptian diatomite for the removal of ammonium ions from Lake Qarun: A realistic study to avoid eutrophication. Environmental Pollution, 2020, 266, 115277.	3.7	18
119	Enhanced remediation of As (V) and Hg (II) ions from aqueous environments using Î²-cyclodextrin/MCM-48 composite: Batch and column studies. Journal of Water Process Engineering, 2021, 42, 102118.	2.6	17
120	Insight into the Loading Properties of Na⁺ Green-Functionalized Clinoptilolite as a Potential Carrier for the 5-Fluorouracil Drug, its Release Kinetics, and Cytotoxicity. ACS Omega, 2022, 7, 6991-7001.	1.6	17
121	Insight into the catalytic conversion of palm oil into biodiesel using Na+/K+ trapped muscovite/phillipsite composite as a novel catalyst: Effect of ultrasonic irradiation and mechanism. Renewable and Sustainable Energy Reviews, 2019, 115, 109346.	8.2	16
122	Preparation and characterization of MCM-48/nickel oxide composite as an efficient and reusable catalyst for the assessment of photocatalytic activity. Environmental Science and Pollution Research, 2020, 27, 32670-32682.	2.7	16
123	Design and characterization of PANI/starch/Fe2O3 bio composite for wastewater remediation. International Journal of Biological Macromolecules, 2021, 181, 301-312.	3.6	16
124	Sonoco Green Decoration of Clinoptilolite with MgO Nanoparticles as a Potential Carrier for 5-Fluorouracil Drug: Loading Behavior, Release Profile, and Cytotoxicity. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 4608-4622.	1.9	16
125	Effect of annealing temperature on VO2(M)/ITO film nanomaterials for thermochromic smart windows application and study its contact angle. Journal of Nanophotonics, 2018, 12, 1.	0.4	16
126	Effective retention of radioactive Cs+ and Ba2+ ions using Î²-cyclodextrin functionalized diatomite (Î²-CD/D) as environmental adsorbent; characterization, application, and safety. Surfaces and Interfaces, 2021, 26, 101434.	1.5	15

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127	Efficient and recyclable photocatalytic degradation of methylene blue dye in aqueous solutions using nanostructured Cd1â€‰â^'â€‰xCoxS films of different doping levels. Journal of Sol-Gel Science and Technology, 2020, 95, 276-288.	1.1	14
128	Highly Efficient Photocatalyst Fabricated from the Chemical Recycling of Iron Waste and Natural Zeolite for Super Dye Degradation. Nanomaterials, 2022, 12, 235.	1.9	14
129	Development of CuO nanoporous material as a highly efficient optoelectronic device. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	1.1	14
130	In vitro antioxidant, anticancer, anti-inflammatory, anti-diabetic and anti-Alzheimer potentials of innovative macroalgae bio-capped silver nanoparticles. Environmental Science and Pollution Research, 2022, 29, 59930-59947.	2.7	14
131	Effective transformation of waste sunflower oil into biodiesel over novel K+ trapped clay nanotubes (K+/KNTs) as a heterogeneous catalyst; response surface studies. Microporous and Mesoporous Materials, 2020, 306, 110465.	2.2	13
132	Reusability and stability of a novel ternary (Coâ€“Câ€“Fe)-LDH/PbI2 photoelectrocatalytst for solar hydrogen production. Scientific Reports, 2021, 11, 5618.	1.6	13
133	Insight into the loading, release, and anticancer properties of cellulose/zeolite-A as an enhanced delivery structure for oxaliplatin chemotherapy; characterization and mechanism. Journal of Sol-Gel Science and Technology, 2022, 103, 752-765.	1.1	13
134	Efficient removal of Sr ions from water utilizing a novel Ni-/Fe-doped spongy apatite through fixed bed column system: optimization and realistic application. Clean Technologies and Environmental Policy, 2019, 21, 69-80.	2.1	12
135	Facile Fabrication of ZnMgAl/LDH/Algae Composites as a Potential Adsorbent for Cr(VI) Ions from Water: Fabrication and Equilibrium Studies. ACS Omega, 2020, 5, 31342-31351.	1.6	12
136	Insight into the Adsorption Properties of Chitosan/Zeolite-A Hybrid Structure for Effective Decontamination of Toxic Cd (II) and As (V) Ions from the Aqueous Environments. Journal of Polymers and the Environment, 2022, 30, 295-307.	2.4	12
137	Tuning the Metalâ€“Insulator Transition Properties of VO2 Thin Films with the Synergetic Combination of Oxygen Vacancies, Strain Engineering, and Tungsten Doping. Nanomaterials, 2022, 12, 1470.	1.9	12
138	Morphological and optical properties of ultraâ€thin nanostructured Cu films deposited by RF sputtering on nanoporous anodic alumina substrate. Micro and Nano Letters, 2016, 11, 295-298.	0.6	11
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140	Green aspects of photocatalysts during corona pandemic: a promising role for the deactivation of COVID-19 virus. RSC Advances, 2022, 12, 13609-13627.	1.7	11
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