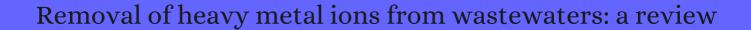
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1724	Photocatalytic properties of zinc sulfide nanocrystals biofabricated by metal-reducing bacterium Shewanella oneidensis MR-1. <b>2015</b> , 288, 134-9	53
1723	Kinetic study of heavy metal ions removal by ion exchange in batch conical air spouted bed. <b>2015</b> , 54, 83-90	110
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1719	Characterization of hydraulic fracturing flowback water in Colorado: implications for water treatment. <b>2015</b> , 512-513, 637-644	232
1718	A novel cross-linked pH-responsive tetrapolymer: Synthesis, characterization and sorption evaluation towards Cr(III). <b>2015</b> , 269, 9-19	30
1717	Activated carbons for the removal of heavy metal ions: A systematic review of recent literature focused on lead and arsenic ions. <b>2015</b> , 13,	77
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1715	A gold nanorod-based localized surface plasmon resonance platform for the detection of environmentally toxic metal ions. <b>2015</b> , 140, 2540-55	54
1714	Synergic adsorption of acid blue 80 and heavy metal ions (Cu2+/Ni2+) onto activated carbon and its mechanisms. <b>2015</b> , 27, 164-174	50
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1702	Effect of hydraulic retention time on metal precipitation in sulfate reducing inverse fluidized bed reactors. <b>2015</b> , 90, 120-129	13
1701	MetalBrganic framework MIL-125(Ti) for efficient adsorptive removal of Rhodamine B from aqueous solution. <b>2015</b> , 29, 12-19	81
1700	Highly efficient adsorption of heavy metals from wastewaters by graphene oxide-ordered mesoporous silica materials. <b>2015</b> , 50, 2113-2121	75
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1698	Removal of trace Cd2+ from aqueous solution by foam fractionation. <b>2015</b> , 286, 466-73	22

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1694	Removal of yttrium (III) ions from water solutions by alginate compounds. <b>2015</b> , 12, 3107-3116	13
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1680	Distribution of heavy metals in the coastal area of Abu Dhabi in the United Arab Emirates. <b>2015</b> , 97, 494-498	31

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1614	Potential of functionalized SBA-15 mesoporous materials for decontamination of water solutions from Cr(VI), As(V) and Hg(II) ions. <b>2015</b> , 3, 986-995  Efficient removal of Cd(II) and Cu(II) from aqueous solution by magnesium chloride-modified	60
1614	Potential of functionalized SBA-15 mesoporous materials for decontamination of water solutions from Cr(VI), As(V) and Hg(II) ions. 2015, 3, 986-995  Efficient removal of Cd(II) and Cu(II) from aqueous solution by magnesium chloride-modified Lentinula edodes. 2015, 5, 33478-33488  Poly(methacylic acid-co-maleic acid) grafted nanofibrillated cellulose as a reusable novel heavy	60
1614 1613 1612	Potential of functionalized SBA-15 mesoporous materials for decontamination of water solutions from Cr(VI), As(V) and Hg(II) ions. 2015, 3, 986-995  Efficient removal of Cd(II) and Cu(II) from aqueous solution by magnesium chloride-modified Lentinula edodes. 2015, 5, 33478-33488  Poly(methacylic acid-co-maleic acid) grafted nanofibrillated cellulose as a reusable novel heavy metal ions adsorbent. 2015, 126, 199-207  Amorphous calcium phosphate nanowires prepared using beta-glycerophosphate disodium salt as an organic phosphate source by a microwave-assisted hydrothermal method and adsorption of	60 14 87
1614 1613 1612	Potential of functionalized SBA-15 mesoporous materials for decontamination of water solutions from Cr(VI), As(V) and Hg(II) ions. 2015, 3, 986-995  Efficient removal of Cd(II) and Cu(II) from aqueous solution by magnesium chloride-modified Lentinula edodes. 2015, 5, 33478-33488  Poly(methacylic acid-co-maleic acid) grafted nanofibrillated cellulose as a reusable novel heavy metal ions adsorbent. 2015, 126, 199-207  Amorphous calcium phosphate nanowires prepared using beta-glycerophosphate disodium salt as an organic phosphate source by a microwave-assisted hydrothermal method and adsorption of heavy metals in water treatment. 2015, 5, 40154-40162  Adsorption of heavy metal ion from aqueous solution by nickel oxide nano catalyst prepared by	60 14 87 22

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1554	Removal of Pb(II), Cu(II), and Cd(II) from aqueous solutions by biochar derived from KMnO4 treated hickory wood. <b>2015</b> , 197, 356-62	329

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1542	Uranium(VI) Scavenging by Amorphous Iron Phosphate Encrusting Sphaerotilus natans Filaments. <b>2015</b> , 49, 14065-75	10
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1537	Investigating the mechanisms of biochar's removal of lead from solution. 2015, 177, 308-17	255
1536	□Carboline-functionalized dithioacetal as Hg2+-selective fluorescence probe in water. <b>2015</b> , 136 Pt B, 900-5	6

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1534	Alternative use of cross-linked polyallylamine (known as Sevelamer pharmaceutical compound) as biosorbent. <b>2015</b> , 442, 49-59	9
1533	Titanium-based nanocomposite materials: a review of recent advances and perspectives. <b>2015</b> , 126, 121-37	70
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1531	Thermosensitive polymer Enhanced Filtration (TEF) process: An innovative process for heavy metals removal and recovery from industrial wastewaters. <b>2015</b> , 141, 17-24	19
1530	Metallomics and NMR-based metabolomics of Chlorella sp. reveal the synergistic role of copper and cadmium in multi-metal toxicity and oxidative stress. <b>2015</b> , 7, 426-38	38
1529	Regeneration of adsorbents and recovery of heavy metals: a review. <b>2015</b> , 12, 1461-1478	217
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1511	Fabrication of chitosan/PDMCHEA blend positively charged membranes with improved mechanical properties and high nanofiltration performances. <b>2015</b> , 357, 8-15	43
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1018	Quantitative effects of amination degree on the magnetic iron oxide nanoparticles (MIONPs) using as adsorbents to remove aqueous heavy metal ions. <b>2017</b> , 335, 47-55	23
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1013	Barium removal from synthetic natural and produced water using MXene as two dimensional (2-D) nanosheet adsorbent. <b>2017</b> , 317, 331-342	136
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1009	Differentiation and determination of metal ions using fluorescent sensor array based on carbon nanodots. <b>2017</b> , 246, 680-685	44
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991	Preparation of L-arginine modified magnetic adsorbent by one-step method for removal of Zn(II) and Cd(II) from aqueous solution. <b>2017</b> , 317, 999-1011	44
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460	Recent advances in eco-friendly composites derived from lignocellulosic biomass for wastewater treatment.	О
459	Adsorption performance and mechanism of Fe-loaded biochar derived from waste zanthoxylum branch for removing Cr(VI) from aqueous solution.	О
458	A Unique Enhancement of Propionibacterium freudenreichii Ability to Remove Pb(II) from Aqueous Solution by Tween 80 Treatment. <b>2022</b> , 23, 9207	o
457	Advances in Chelating Resins for Adsorption of Heavy Metal Ions. 2022, 61, 11309-11328	2
456	An overview of microbial electrolysis cell configuration: Challenges and prospects on biohydrogen production.	O

455	Biogenic synthesis of date stones biochar-based zirconium oxide nanocomposite for the removal of hexavalent chromium from aqueous solution.	Ο
454	Elimination of Lead by Biosorption on Parthenium Stem Powder Using Box-Behnken Design. <b>2022</b> ,	
453	Adsorption/desorption characteristics of novel Fe3O4 impregnated N-doped biochar (Fe3O4@N/BC) for arsenic (III and V) removal from aqueous solution: Insight into mechanistic understanding and reusability potential. <b>2022</b> , 104209	1
452	Modeling the sorption of Ni(II) and Zn(II) by Mn oxide-coated sand: Equilibrium and kinetic approaches.	O
451	Preparation and properties of phosphinic acid functionalized polyacrylonitrile hollow fiber membrane for heavy metal adsorption.	
450	Synthesis and adsorption performance of three-dimensional gels assembled by carbon nanomaterials for heavy metal removal from water: A review. <b>2022</b> , 158201	1
449	Polyacrylate stabilized ZVI/Cu bimetallic nanoparticles for removal of hexavalent chromium from wastewater.	
448	Porous materials for the recovery of rare earth elements, platinum group metals, and other valuable metals: a review.	O
447	Recent advances in membrane filtration for heavy metal removal from wastewater: A mini review. <b>2022</b> , 49, 103023	8
446	Preparation, modification and environmental application of carbon monoliths assisted by the electric field: A review. <b>2022</b> , 369, 133464	
445	Effect of phosphorus sources on growth and cadmium accumulation in wheat under different soil moisture levels. <b>2022</b> , 311, 119977	1
444	Dual functional sites strategies toward enhanced heavy metal remediation: Interlayer expanded Mg-Al layered double hydroxide by intercalation with L-cysteine. <b>2022</b> , 439, 129693	O
443	Challenges and avenues for acid mine drainage treatment, beneficiation, and valorisation in circular economy: A review. <b>2022</b> , 183, 106740	3
442	Facile synthesis and characterization of Ag decorated Co nanoparticles for enhanced visible light photocatalysis, detection of Cr(III) and antimicrobial applications. <b>2022</b> , 291, 126604	
441	3, 3?-diaminodiphenyl sulfone engagement in polysulfonamide-based acid-resistant nanofiltration membrane fabrication for efficient separation performance and heavy metal ions removal from wastewater. <b>2022</b> , 661, 120909	1
440	Chalcogenolato-bridged rhenium(I)-based ester functionalized flexible dinuclear metallacrown ethers: Cation binding, molecular recognition and docking studies. <b>2022</b> , 226, 116084	O
439	Theoretical study on the mechanism of super-stable mineralization of LDHs in soil remediation. <b>2023</b> , 451, 138500	О
438	Gold recovery at ultra-high purity from electronic waste using selective polymeric film. <b>2023</b> , 451, 138506	1

437	Research on Modified Carbon Nanotubes in Wastewater Treatment. 2022, 12, 1103	О
436	Bridging environmental geochemistry and hydrology. <b>2022</b> , 613, 128448	0
435	Preparation and characterization of carboxymethyl cellulose/chitosan/alginic acid hydrogels with adjustable pore structure for adsorption of heavy metal ions. <b>2022</b> , 179, 111577	1
434	Unraveling pore structure alternations in 3D-printed geopolymer concrete and corresponding impacts on macro-properties. <b>2022</b> , 59, 103137	O
433	Modeling the adsorption of divalent metallic cations onto multi-walled carbon nanotubes functionalized with COOH. <b>2022</b> , 366, 120275	1
432	Synthesis and application of polyethyleneimine (PEI)-based composite/nanocomposite material for heavy metals removal from wastewater: A critical review. <b>2022</b> , 8, 100158	O
431	Multi-functionalization strategy for environmental monitoring: A metal-organic framework for high capacity Mercury(II) removal and exceptionally sensitive detection of nitroaromatics. <b>2022</b> , 376, 134301	О
430	Weed to nano seeds: Ultrasonic assisted one-pot fabrication of superparamagnetic magnetite nano adsorbents from Siam weed flower extract for the removal of lead from water <b>2022</b> , 8, 100163	O
429	The emerging potential of natural and synthetic algae-based microbiomes for heavy metal removal and recovery from wastewaters. <b>2022</b> , 215, 114238	1
428	Waste to wealth: A critical analysis of resource recovery from desalination brine. <b>2022</b> , 543, 116093	1
427	Insight into the removal of vanadium ions from model and real wastewaters using surface grafted zirconia-based adsorbents: Batch experiments, equilibrium and mechanism study. <b>2022</b> , 324, 116306	O
426	Identifying global status and research hotspots of heavy metal remediation: A phase upgrade study. <b>2022</b> , 324, 116265	3
425	Rhodococcus: A promising genus of actinomycetes for the bioremediation of organic and inorganic contaminants. <b>2022</b> , 323, 116220	2
424	Nano-modified feather keratin derived green and sustainable biosorbents for the remediation of heavy metals from synthetic wastewater. <b>2022</b> , 308, 136339	1
423	Comparative assessment of the biomass solar pyrolysis biochars combustion behavior and zinc Zn(II) adsorption. <b>2022</b> , 261, 125360	1
422	Cotton fabric functionalized with nanostructured MoS2: Efficient adsorbent for removal of Pb, Hg, Cd and Cr from water. <b>2022</b> , 10, 108583	O
421	Bench-scale injection of magnesium hydroxide encapsulated iron nanoparticles (nFe0@Mg(OH)2) into porous media for Cr(VI) removal from groundwater. <b>2023</b> , 451, 138718	0
420	Nanofiltration membrane use for separation of heavy metals from wastewater. <b>2023</b> , 523-549	O

419	Potential use of ultrafiltration (UF) membrane for remediation of metal contaminants. 2023, 341-364	О
418	Cation-Interaction in Mg(OH)2@GO-coated activated carbon fiber cloth for rapid removal and recovery of divalent metal cations by flow-through adsorption. <b>2023</b> , 188, 106648	1
417	Application and fabrication of nanofiltration membrane for separation of metal ions from wastewater. <b>2023</b> , 365-398	0
416	Application of agro-based adsorbent for removal of heavy metals. 2023, 157-182	O
415	Role of microalgae in achieving sustainable development goals and circular economy. 2023, 854, 158689	1
414	The adsorption and reduction of anionic Cr(VI) in groundwater by novel iron carbide loaded on N-doped carbon nanotubes: Effects of Fe-confinement. <b>2023</b> , 452, 139357	1
413	Electrochemical Treatment of an Effluent with Azo Dyes and Heavy Metals Using a Graphene-Coated Electrode. <b>2022</b> , 641-653	0
412	Application of Lignin-Based Biomaterials in Textile Wastewater. <b>2022</b> , 75-99	O
411	Electrochemical detection of selected heavy metals in water: a case study of African experiences. <b>2022</b> , 12, 26319-26361	О
410	Weed to Nanoseeds: Ultrasonic Assisted One-Pot Fabrication of Superparamagnetic Magnetite Nano Adsorbents from Siam Weed Flower Extract for the Removal of Lead from Water.	O
409	Role of biofilms to curb contamination in water bodies. <b>2022</b> , 77-93	0
408	Removal of Phenolic Compound from Wastewater Using Microbial Fuel Cells. <b>2022</b> , 279-297	O
407	Synergistic Photocatalytic-Photothermal Contribution Enhanced by Recovered Ag+ Ions on Mxene Membrane for Organic Pollutant Removal.	O
406	A highly selective silver ion optical chemosensor based on isoxazolyl-azo pyrimidine: synthesis, spectroscopy, DFT calculations and applications. <b>2022</b> , 14, 3405-3415	O
405	Chemistry, Biological Activities, and Uses of Moi Gum. <b>2022</b> , 193-224	O
404	Pyritic Subsoils in Acid Sulfate Soils and Similar Problems in Mined Areas with Sulfidic Rocks. <b>2022</b> , 109-123	1
403	Textile Industry: Pollution Health Risks and Toxicity. <b>2022</b> , 1-28	0
402	A bifunctional imidazolium-functionalized ionic porous organic polymer in water remediation.	O

401	Effective Treatment of Real Acid Mine Drainage Using Mechanochemically Synthesized Metakaolinite-Ca-rich-MgO Nanocomposite.	О
400	Competitive Bioaccumulation by Ceratophyllum demersum L <b>2022</b> , 15-30	О
399	3D printable polyethyleneimine based hydrogel adsorbents for heavy metal ions removal. <b>2022</b> , 1, 443-455	O
398	Low-cost adsorbent biomaterials for the remediation of inorganic and organic pollutants from industrial wastewater: Eco-friendly approach. <b>2022</b> , 87-112	О
397	Functionalized magnetic iron oxide-based composites as adsorbents for the removal of heavy metals from wastewater. <b>2022</b> , 401-424	О
396	Biopolymer-Based Nanocomposite Materials for Detection and Removal of Pollutants in Wastewater. <b>2022</b> , 141-157	O
395	Synergistic photocatalytic-photothermal contribution enhanced by recovered Ag+ ions on MXene membrane for organic pollutant removal. <b>2023</b> , 320, 122009	О
394	Fabrication of Polyethyleneimine-Modified Nanocellulose/Magnetic Bentonite Composite as a Functional Biosorbent for Efficient Removal of Cu(II). <b>2022</b> , 14, 2656	O
393	Amine-Modified Small Pore Mesoporous Silica as Potential Adsorbent for Zn Removal from Plating Wastewater. <b>2022</b> , 12, 1258	O
392	Development of biochar from floral waste for the removal of heavy metal (copper) from the synthetic wastewater. <b>2022</b> , 1074, 012033	O
391	Water Cleaning Adsorptive Membranes for Efficient Removal of Heavy Metals and Metalloids. <b>2022</b> , 14, 2718	2
390	A Reverse Osmosis Process to Recover and Recycle Trivalent Chromium from Electroplating Wastewater. <b>2022</b> , 12, 853	O
389	Simultaneous removal of lead, chromium and cadmium from synthetic water by electrocoagulation: Optimization through response surface methodology. <b>2022</b> ,	0
388	Development of Adsorptive Materials for Selective Removal of Toxic Metals in Wastewater: A Review. <b>2022</b> , 12, 1057	2
387	Potentiality of the porous geopolymer sphere in adsorption of Pb (II) from aqueous solutions: Behaviors and mechanisms. <b>2022</b> ,	1
386	Lead (II) adsorption from aqueous systems using visible light activated cobalt doped zinc oxide nanoparticles. <b>2022</b> , 17, 838-849	О
385	High Specific Surface Area I-Al2O3 Nanoparticles Synthesized by Facile and Low-cost Co-precipitation Method.	О
384	Automobile service station waste assessment and promising biological treatment alternatives: a review. <b>2022</b> , 194,	1

383	FTIR Analysis of Plant-Based Cellulose as Adsorbents for Water Remediation. 2023, 89-94	0
382	Intensification of a continuous adsorption system by applying an external magnetic field for the removal of heavy metals in the ionic state. <b>2022</b> , 109140	О
381	Elimination of Hg (II) in Water by Adsorption through Banana. 931, 139-149	0
380	Electrochemical Metal Recycling: Recovery of Palladium from Solution and In Situ Fabrication of Palladium-Carbon Catalysts via Impact Electrochemistry.	0
379	Recent Progress in WS2-Based Nanomaterials Employed for Photocatalytic Water Treatment. <b>2022</b> , 12, 1138	0
378	Enhanced adsorption of lead ions by enzymatically synthesized poly(m-phenylenediamine)-graphene oxide composites.	O
377	A rapid and sensitive method to detection of Cr3+by using the Fe3O4@Pectin-polymethacrylimide@graphene quantum dot as a sensitive material.	0
376	REMOVAL OF HEAVY METALS FROM SYNTHETIC ACIDIC MINE WATER USING RECYCLED AGGREGATES.	0
375	Efficient Cd(II) Removal from Aqueous Solution Using Mechanically Activated CaCO3: Removal Pathway and Mechanism. <b>2022</b> , 233,	0
374	Overview assessment of risk evaluation and treatment technologies for heavy metal pollution of water and soil. <b>2022</b> , 134043	8
373	Catalyzing urea hydrolysis using two-step microbial-induced carbonate precipitation for copper immobilization: Perspective of pH regulation. 13,	0
372	Recent Progress on Modified Gum Katira Polysaccharides and Their Various Potential Applications. <b>2022</b> , 14, 3648	O
371	Curing effects of fly ash-based geopolymer on soils around mining areas: properties and mechanisms. <b>2022</b> , 81,	0
370	Application of Response Surface Methodology for Optimization of Copper Removal Using a Novel Polymeric Adsorbent.	0
369	Multicomponent System of Single-Walled Carbon Nanotubes Functionalized with a Melanin-Inspired Material for Optical Detection and Scavenging of Metals. 2209688	O
368	A cohesive effort to assess the suitability and disparity of carbon nanotubes for water treatment.	0
367	Selective and Chemical-Free Removal of Toxic Heavy Metal Cations from Water Using Shock Ion Extraction. <b>2022</b> , 56, 14091-14098	0
366	Cr(VI) removal from contaminated waters using ultra-thin layered meixnerite.	О

365	Ecofriendly nanoparticles derived from water industry byproducts for effective removal of Cu (II) from wastewater: Adsorption isotherms and Kinetics. <b>2022</b> , 110062	0
364	MoS2-encapsulated nitrogen-doped carbon bowls for highly efficient and selective removal of copper ions from wastewater. <b>2022</b> , 122284	O
363	Optimization of coal fly ash-based porous geopolymer synthesis and application for zinc removal from water. <b>2022</b> ,	0
362	Synergistic Effect of Functionalization and Crystallinity in Nanoporous Organic Frameworks for Effective Removal of Metal Ions from Aqueous Solution.	O
361	Adsorption removal of heavy metal ions from multi-component aqueous system by clay-supported nanoscale zero-valent iron. 1-12	0
360	A novel slag composite for the adsorption of heavy metals: Preparation, characterization and mechanisms. <b>2022</b> , 114442	O
359	Economic and fast electro-flotation extraction of heavy metals from wastewater. 1-10	0
358	Evaluation of constructed wetland systems toward naturalization of the elemental composition and microbial community in wastewater treatment plant effluent. <b>2022</b> , 376, 134117	O
357	Synthesis of a novel bis Schiff base chelating resin for adsorption of heavy metal ions and catalytic reduction of 4-NP. <b>2022</b> , 180, 105409	0
356	Recent progress in heavy metals extraction from phosphoric acid: A short review. <b>2022</b> , 115, 120-134	O
355	Challenges, advances and sustainabilities on the removal and recovery of manganese from wastewater: A review. <b>2022</b> , 377, 134152	1
354	Smart nano-architectures as potential sensing tools for detecting heavy metal ions in aqueous matrices. <b>2022</b> , 36, e00179	O
353	Recent advancements in engineered biopolymeric-nanohybrids: A greener approach for adsorptive-remediation of noxious metals from aqueous matrices. <b>2022</b> , 215, 114398	O
352	Progress and challenges in molecularly imprinted polymers for adsorption of heavy metal ions from wastewater. <b>2022</b> , 36, e00178	O
351	Lignin as a bioactive polymer and heavy metal absorber- an overview. <b>2022</b> , 309, 136564	0
350	Pollution of water resources. <b>2022</b> , 355-378	O
349	Water treatment using stimuli-responsive polymers. <b>2022</b> , 13, 5940-5964	1
348	Environmental Applications of Magnetic Alloy Nanoparticles and Their Polymer Nanocomposites. <b>2022</b> , 975-1006	O

347	Engineering GO@ZnHap@CA porous heterostructure for ultra-fast and ultra-high adsorption efficacy: investigation towards the remediation of chromium and lead.	O
346	Wastewater Treatment and Remediation of Harmful Substances Using Green Materials. 2022, 1-10	О
345	Extraction of Metal Ions by Interfacially Active Janus Nanoparticles Supported by Wax Colloidosomes Obtained from Pickering Emulsions. <b>2022</b> , 12, 3738	0
344	Remediation of Chromium Heavy Metal Ion by Green Synthesized Nanocomposites. 2023, 1-30	О
343	Amine-functionalized magnetic microspheres from lignosulfonate for industrial wastewater purification. <b>2022</b> ,	0
342	Comparison of Ion Selectivity in Electrodialysis and Capacitive Deionization.	О
341	Enhanced removal of heavy metals by #eOOH incorporated carboxylated cellulose nanocrystal: synergistic effect and removal mechanism.	0
340	Coffee pulp characterization and treatment as adsorbent material for heavy metal removal from landfill leachates.	O
339	Activated sludge process enabling highly efficient removal of heavy metal in wastewater.	O
338	Evaluation and removal efficiencies of a rural WWTP for metals and anions in Lufkin, East Texas (USA). <b>2022</b> , 194,	О
337	U(VI) removal from diluted aqueous systems by sorptionflotation. <b>2022</b> , 12,	1
336	Bi-enzyme photoelectrochemical biosensor for sensitive determination of phosphatidylcholine in vegetable oil.	O
335	Engineered Nanoparticles for Wastewater Treatment System. <b>2022</b> , 2, 56-66	O
334	Calcium Carbonate Crystallization on a Microalgal Matrix: The Effects of Heavy Metal Presence. <b>2022</b> , 12, 1424	O
333	Metal-Organic Frameworks and Electrospinning: A Happy Marriage for Wastewater Treatment. 2207723	3
332	Adsorption and Kinetics Studies of Cr (VI) by Graphene Oxide and Reduced Graphene Oxide-Zinc Oxide Nanocomposite. <b>2022</b> , 27, 7152	1
331	Treatment of Industrial Wastewater in a Floating Treatment Wetland: A Case Study of Sialkot Tannery. <b>2022</b> , 14, 12854	0
330	A polyethanolamine nanodendrimer as a magnetic hybrid material for fast adsorption of heavy metal contaminants.	O

329	Dynamic performances of adsorbents in an industrial-sized packed bed column for lead ion removal.	O
328	Heavy metal ions and dyes removal from aqueous solution using aloevera-based biosorbent: A systematic review. <b>2022</b> , 114669	О
327	Heavy Metal Removal Efficiency of Tulsi (Ocimum Sanctum) from Water 🛭 Review. 593-600	0
326	Transport of Heavy Metals Pb(II), Zn(II), and Cd(II) Ions across CTA Polymer Membranes Containing Alkyl-Triazole as Ions Carrier. <b>2022</b> , 12, 1068	1
325	One-step synthesis of ZIF-8 for rapid and high-capacity capture of mercury from aqueous solution. <b>2022</b> , 108852	0
324	Trends in Bioremediation of Heavy Metal Contaminations.	O
323	Bioremediation of acid mine drainage (Review. 2022,	0
322	A Critical Review on the Removal and Recovery of Hazardous Cd from Cd-Containing Secondary Resources in Cu-Pb-Zn Smelting Processes. <b>2022</b> , 12, 1846	1
321	Anion-Controlled Assembly of a Silver-Responsive Bifunctional Coordination Polymer with Detection and Large Adsorption Capacity.	0
320	A Highly Sensitive and Selective Fluorescent Probe for the Detection of Cerium(III) Using Tridentate Based-Oxazolidine: Experimental and DFT Investigations.	O
319	Fe3O4-Ti3AlC2 Max Phase Impregnated with 2-(5-Bromo-2-pyridylazo-5-(diethylamino) Phenol for Magnetic Solid Phase Extraction of Cadmium, Lead and Cobalt from Water and Food samples. <b>2022</b> , 120685	0
318	The Current State-Of-Art of Copper Removal from Wastewater: A Review. <b>2022</b> , 14, 3086	1
317	Green and Environmentally Sustainable Fabrication of SnS2 quantum dots/Chitosan nanocomposite for enhanced photocatalytic performance: Effect of process variables, and water matrices. <b>2022</b> , 130301	2
316	Ion rejection performances of functionalized porous graphene nanomembranes for wastewater purification: A molecular dynamics simulation study. <b>2022</b> , 130492	O
315	The oxidation states of heavy metals and their adsorption behavior onto biobased hydrogels.	0
314	The modified Canadian water index with other sediment models for assessment of sediments from two harbours on the Egyptian Mediterranean coast. <b>2022</b> , 8, 100180	O
313	Construction of a high power-density microbial fuel cell based on lipopolysaccharide-lectin interactions and its application for detecting heavy metal toxicity. <b>2022</b> , 116948	0
312	A review study on wastewater decontamination using nanotechnology: Performance, mechanism and environmental impacts. <b>2022</b> , 412, 118023	O

311	Removal of cationic dyes in single as well as binary dye systems from aqueous solution using Zinc ferrite-rice husk silica composite. 1-22	O
310	Advances in the photocatalytic reduction functions of graphitic carbon nitride-based photocatalysts in environmental applications: A review. <b>2022</b> , 378, 134589	3
309	In-situ dehydration study of the Sr-, Cd- and Pb-exchanged natrolite. 2022, 346, 112277	O
308	Layer-by-layer assembly of alginate/Ca2+ as interlayer on microfiltration substrate: Fabrication of high selective thin-film composite forward osmosis membrane for efficient heavy metal ions removal. <b>2022</b> , 188, 564-574	1
307	High-efficiency removal of organic pollutants by visible-light-driven tubular heterogeneous micromotors through a photocatalytic Fenton process. <b>2023</b> , 630, 121-133	1
306	Poly-N-phenylglycine@multi-walled carbon nanotubes composite membrane for improvement of Au(III) adsorption. <b>2023</b> , 304, 122404	O
305	Strategies and Recent Advances in the Management of Waste Present in Soil and Water by Microbes. <b>2022</b> , 289-311	О
304	Polymer-based hydroxyapatite nanocomposites for the removal of emerging contaminants: A review. <b>2022</b> ,	O
303	Removal of dyes, oils, alcohols, heavy metals and microplastics from water with superhydrophobic materials. <b>2023</b> , 311, 137148	1
302	Recent Advances in Capacitive Deionization: Research Progress and Application Prospects. <b>2022</b> , 14, 14429	1
301	Study on Efficient Adsorption Mechanism of Pb2+ by Magnetic Coconut Biochar. <b>2022</b> , 23, 14053	O
300	Assessment of Heavy Metals Eluted from Materials Utilized in Artificial Reefs Implemented in South Korea. <b>2022</b> , 10, 1720	O
299	Potential application of spent mushroom compost (SMC) biochar as low-cost filtration media in heavy metal removal from abandoned mining water: a review.	O
298	Towards the Development of Sustainable Hybrid Materials to Achieve High Cr(VI) Removals in a One-Pot Process. <b>2022</b> , 12, 3952	1
297	Application of Singularity Theory to the Distribution of Heavy Metals in Surface Sediments of the Zhongsha Islands. <b>2022</b> , 10, 1697	O
296	Insights into the Domestic Wastewater Treatment (DWWT) Regimes: A Review. <b>2022</b> , 14, 3542	1
295	Potential of using Alfa grass fibers (Stipa Tenacissima L.) to remove Pb2+, Cu2+, and Zn2+ from an aqueous solution. 1-41	О
294	Development of a magnetic calcium-alginate hydrogel-sphere encapsulated with FelMnIr ternary metal composite for heavy metal adsorption. <b>2022</b> , 122531	O

293	Syzgium cumini extract- a natural naked eye colorimetric sensor for selective and sensitive detection of Fe2+ in aqueous medium. <b>2022</b> , 100866	О
292	Heavy metal removal from water using the metallogelation properties of a new glycolipid biosurfactant.	1
291	Immobilizing Copper in Loess Soil Using Microbial-induced Carbonate Precipitation: Insights from Test Tube Experiments and One-dimensional Soil Columns. <b>2022</b> , 130417	0
290	Defect Engineering in g-C3N4 Quantum-Dot-Modified TiO2 Nanofiber: Uncovering Novel Mechanisms for the Degradation of Tetracycline in Coexistence with Cu2+.	1
289	Computational modelling of geochemical speciation of the trace metals in the wastewater treatment process optimization. <b>2022</b> , 12,	O
288	Catalytic performances and leaching behavior of typical natural iron minerals as electro-Fenton catalysts for mineralization of imidacloprid. <b>2022</b> ,	o
287	Adsorption of Hg2+ on Cyclophosphazene and Triazine Moieties based Inorganic-organic Hybrid Nanoporous Materials Synthesized by Microwave Assisted Method. <b>2022</b> , 122662	0
286	Synthesis, modification, and adsorption properties of Yb-MOF: kinetic and thermodynamic studies.	o
285	Nickel removal from wastewater using electrocoagulation process with zinc electrodes under various operating conditions: performance investigation, mechanism exploration, and cost analysis.	1
284	Synergistic Enhancement of Lead and Selenate Uptake at the Barite (001) Water Interface.	1
283	Advances in photocatalytic reduction of hexavalent chromium: From fundamental concepts to materials design and technology challenges. <b>2022</b> , 50, 103301	1
282	Heterogeneous Fenton-like degradation of organic pollutants in petroleum refinery wastewater by copper-type layered double hydroxides. <b>2022</b> , 50, 103305	О
281	Synthesis and Characterization of a Novel Nanocarbon Derived Nanoporous Al2O3 Powder as a Potential Adsorbent for Treatment of Wastewater. <b>2023</b> , 295-301	0
280	Removal of heavy metals from wastewater using synthetic chelating agents. 2022,	o
279	2D-layered Bi-functional direct solid-Z-scheme heterogenous vanadium and oxygen doped graphitic carbon nitride single layered nanosheet catalysis for detection and photocatalytic removal of toxic heavy metal. <b>2022</b> , 127065	0
278	Facile Preparation and Characterization of Silica Nanoparticles from South Africa Fly Ash Using a Sol <b>©</b> el Hydrothermal Method. <b>2022</b> , 10, 2440	1
277	The removal of Cr3+ using a vertical rotating micro-channel extractor with gas intensification and parallel model. <b>2022</b> , 109208	0
276	A new strategy for selective recovery of low concentration cobalt ions from wastewater: Based on selective chelating precipitation-flotation process. <b>2022</b> , 141, 104605	О

275	Active Treatment Methods for Mine Water. <b>2022</b> , 95-149	О
274	Coagulation removal of nickel (II) ions by ferric chloride: Efficiency and mechanism. <b>2022</b> , 94,	O
273	Lignin based microspheres for effective dyes removal: Design, synthesis and adsorption mechanism supported with theoretical study. <b>2023</b> , 326, 116838	1
272	Measurement techniques for detection of metals in water resources. <b>2023</b> , 1-20	O
271	Processes of decontamination and elimination of toxic metals from water and wastewaters. <b>2023</b> , 239-262	O
270	Sediment pollution: An assessment of anthropogenic and geogenic trace element contributions along the central Algerian coast. <b>2023</b> , 186, 114398	1
269	Metals removal by membrane filtration. <b>2023</b> , 331-351	0
268	Application of nanomaterials for the remediation of heavy metals ions from the wastewater. <b>2023</b> , 387-406	O
267	Various methods for the recovery of metals from the wastewater. <b>2023</b> , 213-237	O
266	Periodic aggregation patterns of oxide particles on corroding metals: chemical waves due to solution feedback processes.	O
265	A DFT-based analysis of adsorption performance of Zn2+ on vacancy defected carbon nanotubes. <b>2023</b> , 360, 115048	0
264	Synthesis of eco-friendly lignin-betaine and its application for dye wastewater treatment. <b>2023</b> , 192, 116014	1
263	Metakaolin/red mud-derived geopolymer monoliths: Novel bulk-type sorbents for lead removal from wastewaters. <b>2023</b> , 232, 106770	1
262	Performance evaluation and life cycle assessment of electrocoagulation process for manganese removal from wastewater using titanium electrodes. <b>2023</b> , 328, 116967	O
261	Programmable and low-cost biohybrid membrane for efficient heavy metal removal from water. <b>2023</b> , 306, 122751	1
260	Effective treatment of real acid mine drainage using MgO-metakaolinite nanocomposite. <b>2023</b> , 51, 103370	O
259	Graphite-sheathed ZnMn2O4 microspheres for electrochemical detection of As(III). 2023, 295, 127106	0
258	Optical and quantitative sensing capability of phenolphthalein derived Schiff base chromo-fluorogenic sensor for Cu2+. <b>2023</b> , 437, 114460	1

257	Insights into machine-learning modeling for Cr(VI) removal from contaminated water using nano-nickel hydroxide. <b>2023</b> , 308, 122863	О
256	An insight into the potential of dolomite powder as a sorbent in the elimination of heavy metals: A review. <b>2023</b> , 7, 100276	1
255	Management of 137Cs in electric arc furnace dust by solid-liquid extraction and treatment of contaminated wastewater using co-precipitation. <b>2023</b> , 7, 100283	0
254	Advanced biomaterials for the removal of pesticides from water. 2022,	O
253	Novel polyanilinepolyethersulfone nanofiltration membranes: effect of in situ polymerization time on structure and desalination performance. <b>2022</b> , 12, 33889-33898	0
252	Composite ceramic membrane containing titanium carbide as an active layer: Fabrication, characterization and its application in oil/water separation. <b>2022</b> , 4, 100642	O
251	Zeolite effective use in treatment of physical and chemical properties of sewage water discharged from general Samarra hospital. <b>2022</b> ,	0
250	Adsorption of Iron(II) and Cadmium(II) Ions Separately using Carbon Materials from Hazelnuts and Walnuts Waste Shells. <b>2022</b> , 34, 3100-3104	0
249	An enhancement concentrate on bulk liquid membrane and its opposition in copper ion expulsion and recovery from wastewater. <b>2022</b> ,	0
248	Mechanistic approaches and factors regulating microalgae mediated heavy metal remediation from the aquatic ecosystem. <b>2022</b> ,	Ο
247	Electrospun nanofiber adsorption amino-based ionic liquid for iron removal. 2022,	0
246	A theoretical study on the adsorption of Cr6+, Mn2+, and Pt2+ onto (8,0) single-walled carbon nanotubes. <b>2022</b> , 599, 195-201	Ο
245	Preparation and properties of phosphinic acidfunctionalized polyacrylonitrile hollow fiber membrane for heavy metal adsorption.	0
244	Adsorption Behavior of Cr3+ from Model Water by NaOH/Fe(III) Modified Clinoptilolite Zeolite. <b>2023</b> , 315-324	0
243	Magnetic Hydrogel Composite for Wastewater Treatment. <b>2022</b> , 14, 5074	0
242	Levels of contaminant metals in three species of holothurians from Portugal: Seasonal, sex and tissues variations.	Ο
241	Application of a new derivatives of traizole Schiff base on chromium recovery from its wastewater. 1-22	1
240	Polymer Membranes as Innovative Means of Quality Restoring for Wastewater Bearing Heavy Metals. <b>2022</b> , 12, 1179	O

239	Evaluating feasibility of biosorption technique for heavy metals removal: limitations and future perspective. 1-25	0
238	A review on Phytoremediation: Sustainable method for removal of heavy metals. <b>2022</b> ,	О
237	Preliminary Study on the Use of Reverse Osmosis Brine and Mine Tailings as Cement Paste Mixtures for Mine Backfilling Application. <b>2022</b> , 233,	O
236	Effective Thallium(I) Removal by Nanocellulose Bioadsorbent Prepared by Nitro-Oxidation of Sorghum Stalks. <b>2022</b> , 12, 4156	O
235	Characterizing Ion-Polymer Interactions in Aqueous Environment with Electric Fields.	O
234	Metal Ion and Dye Adsorption Potential of Grafted Co-polymer of Polysaccharides for the Treatment of Wastewater. <b>2022</b> , 06,	O
233	Simultaneous removal of heavy metals and dye from wastewater: modelling and experimental study.	О
232	Solution Thermodynamic Properties of {Tetrabutyl Ammonium Bromide:Glycerol} Hydrophilic DESs at T = 298.15B48.15 K and 0.1 MPa and an Approach over Solvent Extraction of Cr(VI) Using {Tetrabutyl Ammonium Bromide:Decanoic Acid/Oleic Acid} Hydrophobic DESs.	O
231	Utilization of lignin separated from pulp and paper wastewater for lead removal. 2022,	О
230	Heavy metal removal from aqueous solution by granular hydrated Portland cement. <b>2022</b> , 39, 3350-3360	O
229	Synthesis of ZIF-8@GO-COOH and its adsorption for Cu(II) and Pb(II) from water: capability and mechanism. <b>2022</b> , 122957	2
228	A Sulfonated All-Aromatic Polyamide for Heavy Metal Capture: A Model Study with Pb(II).	О
227	Nickel Removal from Simulated Wastewater Using a Novel Bio-electrochemical Cell with Packed Bed Rotating Cylinder Cathode. <b>2022</b> ,	О
226	Management of hazardous fly-ash energy waste in the adsorptive removal of diclofenac by the use of synthetic zeolitic materials.	O
225	Simultaneous Removal of Metal Ions from Wastewater by a Greener Approach. 2022, 14, 4049	2
224	N-doped carbon dots as the multifunctional fluorescent probe for mercury ion, glutathione and pH detection.	O
223	COF-Based Composites: Extraordinary Removal Performance for Heavy Metals and Radionuclides from Aqueous Solutions. <b>2022</b> , 260,	3
222	Overview on recent advances of magnetic metalBrganic framework (MMOF) composites in removal of heavy metals from aqueous system.	O

221	INVESTIGATION OF THE USE OF WALNUT SHELLS AS A NATURAL BIOSORBENT FOR ZINC REMOVAL. <b>2022</b> , 25, 556-564	Ο
220	Giant Polyoxoniobate-Based Inorganic Molecular Tweezers: Metal Recognitions, Ion-Exchange Interactions and Mechanism Studies.	O
219	Nanocellulose-Based Adsorbents for Heavy Metal Ion. <b>2022</b> , 14, 5479	2
218	Efficient Biosorption of Hexavalent Chromium from Water with Human Hair.	O
217	Modeling of Amino Resin Supported (nZVI) Composite for the Remediation of Lead and Cadmium from Water System. <b>2022</b> , 44, 440-448	1
216	Evaluation of Commercial Reverse Osmosis and Nanofiltration Membranes for the Removal of Heavy Metals from Surface Water in the Democratic Republic of Congo. <b>2022</b> , 4, 1300-1316	2
215	Hexavalent chromium contamination in groundwater and its implication to human health: a Monte Carlo model approach in Indonesia. <b>2023</b> , 9,	0
214	Photocatalytic Removal of Heavy Metal Ions from Water. <b>2022</b> , 105-134	Ο
213	Porous Materials for Water Purification.	Ο
212	Chemically Modified Carbon Nanotubes in Removal of Textiles Effluents. 2023, 151-167	Ο
211	Saccharomyces cerevisiae cell surface display technology: Strategies for improvement and applications. 10,	0
210	A Biologically Compatible Colorimetric Sensor for the Selective Recognition of Cu 2+ Ions in Biological Matrices. <b>2022</b> , 7,	O
209	Optimisation of the chemical oxidation reduction process (CORD) on surrogate stainless steel in regards to its efficiency and secondary wastes. 1,	0
208	Giant Polyoxoniobate-Based Inorganic Molecular Tweezers: Metal Recognitions, Ion-Exchange Interactions and Mechanism Studies.	O
207	Porous Materials for Water Purification.	0
206	Facile Synthesis of NiOtuO/Activated Carbon Nanocomposites for Use in the Removal of Lead and Cadmium Ions from Water. <b>2022</b> , 7, 47183-47191	Ο
205	Study on Tailings Covering System Constructed by Geological Polymerization of Mine Waste. Part 2: Simulation of Oxidation Inhibition of Overburden on Acid-producing Tailings. <b>2023</b> , 110,	0
204	Synthesis and Characterization of Novel Polymeric-Sepiolite Composite Resin for Effective Water Softening: Applications in Batch and Column Adsorption. 1-21	Ο

203	A Systematic Review on Biosurfactants Contribution to the Transition to a Circular Economy. <b>2022</b> , 10, 2647	0
202	Functionally decorated metalorganic frameworks in environmental remediation. 2022, 140741	1
201	Preparation of Pectin Acrylamide (Vinyl phosphonic acid) hydrogel and its selective adsorption of metal ions.	O
200	Synthesis, characterization and adsorptive performance of CuMgAl-layered double hydroxides/montmorillonite nanocomposite for the removal of Zn(II) ions. <b>2022</b> , 100771	O
199	Modified Cellulose Derived from Corncob for Removal of Cu2+ and Ni2+ from Aqueous Solution. <b>2022</b> , 233,	О
198	Highly effective removal of nickel ions from wastewater by calcium-iron layered double hydroxide. 10,	O
197	Short and long-term phytoremediation capacity of aquatic plants in Cu-polluted environments. <b>2023</b> , 9, e12805	О
196	The brown marine algae Laminaria digitatalfor the outstanding biosorption of methylene blue and reactive blue 19 dyes: kinetics, equilibrium, thermodynamics, regeneration, and mechanism studies.	O
195	Principle, design, strategies, and future perspectives of heavy metal ion detection using carbon nanomaterial-based electrochemical sensors: a review.	1
194	Adsorptive removal of heavy metals from water using thermally treated laterite: an approach for production of drinking water from rain water. 1-13	O
193	A Review on Heavy Metal and Dye Removal via Activated Carbon Adsorption Process. 2022, 35, 1-16	O
192	A functional electrochemical sensing platform for the detection of lead ions.	O
191	Layered Metal Oxide Nanosheets with Enhanced Interlayer Space for Electrochemical Deionization. 2210871	0
190	Chitosan grafted tetracarboxylic functionalized magnetic nanoparticles for removal of Pb(II) from an aqueous environment. <b>2023</b> , 225, 1517-1528	O
189	Artificial intelligenceBased approaches to evaluate and optimize phytoremediation potential of in vitro regenerated aquatic macrophyte Ceratophyllum demersum L	O
188	An overview of zeolites synthesised from coal fly ash and their potential for extracting heavy metals from industrial wastewater. 1-23	O
187	Selective biosorption of lanthanides onto Galdieria sulphuraria. <b>2023</b> , 137818	0
186	A study on modified fabric-contained melamine/bentonite polyurethane foam: Pb 2+ adsorption and mechanical properties.	О

185	Preparation of covalent triazine-based polyamides for copper (II) ions removal from aqueous solutions. <b>2023</b> , 30,	О
184	Comparison of synthetic rhamnolipids as chemical precipitants for Pb, La, and Mg. <b>2023</b> , 130801	O
183	Impact of Membrane Spacers on Concentration Polarization, Flow Profile, and Fouling at Ion Exchange Membranes of Electrodialysis Desalination: Diagonal Net Spacer Vs. Ladder-Type Configuration. <b>2023</b> ,	0
182	High Adsorption of Hazardous Cr(VI) from Water Using a Biofilter Composed of Native Pseudomonas koreensis on Alginate Beads. <b>2023</b> , 20, 1385	O
181	Recyclable magnetic nanocomposites for efficient removal of cadmium ions from water: performance, mechanism and isotherm studies. <b>2023</b> , 35,	0
180	A Review of Copper and Nickel Extraction from Wastewater by Emulsion Liquid Membrane (ELM).	O
179	Hyperbranched Dithiocarbamate-Modified Biochar: A Promising Adsorbent for Selective Removal of Pb(II) from Wastewater. <b>2023</b> , 15, 1245	O
178	Preparation and Characterization of Electrospun Poly(lactic acid)/Poly(ethylene glycol)Bpoly(propylene glycol)Bpoly(ethylene glycol)/Silicon Dioxide Nanofibrous Adsorbents for Selective Copper (II) Ions Removal from Wastewater. <b>2023</b> , 13, 54	O
177	Aminoimidazole ionic liquid (IL) embellishment of nanofiltration (NF) membrane to simultaneously enhance heavy metals rejection and permeability. <b>2023</b> , 549, 116345	0
176	Reusable carbon dot/chitin nanocrystal hybrid sorbent for the selective detection and removal of Cr(VI) and Co(II) ions from wastewater. <b>2023</b> , 304, 120471	1
175	Environmental sustainability and ions removal through electrodialysis desalination: Operating conditions and process parameters. <b>2023</b> , 549, 116319	O
174	Double-charged self-assembled rGO/g-C3N4 membrane prepared by functional group substitution[for heavy metal ions rejection at low pressure. <b>2023</b> , 865, 161234	O
173	Reusable self-floating carriers recover heavy metals from industrial wastewater through heterogeneous nucleation for resource reuse. <b>2023</b> , 447, 130760	O
172	Aubergine-based Biosorbents for Heavy Metal Extraction.	O
171	Optimization of Experimental Parameters for Co(II) Ions Biosorption onto Algae Biochars. 2022,	0
170	Synthesis of Hydrogels and Their Progress in Environmental Remediation and Antimicrobial Application. <b>2023</b> , 9, 16	O
169	Superstable Mineralization of Heavy Metals Using Low-Cost Layered Double Hydroxide Nanosheets: Toward Water Remediation and Soil Fertility Enhancement. <b>2023</b> , 62, 365-374	0
168	Brief status of contamination in surface water of rivers of India by heavy metals: a review with pollution indices and health risk assessment.	Ο

167	Advances in Wastewater Treatment Using Natural and Modified Zeolites. 2023, 21-47	0
166	Metal Recovery and Electricity Generation from Wastewater Treatment: The State of the Art. <b>2023</b> , 11, 88	O
165	Physiochemical Analysis of Drinking Water and Treatment with a Homemade Filter: A Case Study of Illu Abba Bor Zone, Ethiopia. <b>2022</b> , 2022, 1-8	О
164	Effect of CeO2-Reinforcement on Pb Absorption by Coconut Coir-Derived Magnetic Biochar. <b>2023</b> , 24, 1974	O
163	A review on different arsenic removal techniques used for decontamination of drinking water. <b>2023</b> , 35,	2
162	Characterization of Cu2+ adsorption for eco-hydroxyapatite derived from limestone sludge via hydrothermal synthesis.	O
161	Sodium alginate-based nanofiber for wastewater treatment. <b>2023</b> , 307-314	0
160	Preparation of Heavy Metal Trapping Flocculant Polyacrylamide <b>©</b> lutathione and Its Application for Cadmium Removal from Water. <b>2023</b> , 15, 500	O
159	Applications of Sodium Alginate in Science. <b>2023</b> , 161-182	0
158	Remediation of water tainted with noxious hexavalent chromium using cetylpyridinium-modified bagasse biomass: adsorption and regeneration studies.	O
157	Bioinspired glycolipids: Metals interactions and aqueous-source metal recovery technologies. <b>2023</b> , 47-67	О
156	Copper Removal from Aqueous Solution by Polymer-Enhanced Ultrafiltration Method Using Polyacrylic Acid (PAA) and Polyvinyl Alcohol (PVA) Polymers.	O
155	Adsorptive removal of hazardous dyes from industrial waste using activated carbon: an appraisal. <b>2023</b> , 455-483	О
154	Nano- and microplastics in the environment: a potential threat to in-situ bioremediation of wastewaters. <b>2023</b> , 417-436	O
153	Recent Advancements in Schiff Base Fluorescence Chemosensors for the Detection of Heavy Metal Ions.	О
152	Chitosan Nanoparticles as Potential Nano-Sorbent for Removal of Toxic Environmental Pollutants. <b>2023</b> , 13, 447	1
151	Molecular Dynamics Simulations of High-Performance, Dissipationless Desalination across Self-Assembled Amyloid Beta Nanotubes. 2205420	0
150	Effect of Leaf Surface Regulation of Zinc Fertilizer on Absorption of Cadmium, Plumbum and Zinc in Rice (Oryza sativa L.). <b>2023</b> , 15, 1877	O

149	Ionic liquids as valuable assets in extraction techniques. <b>2023</b> , 199-221	O
148	Adsorption of Chromium(VI) from Aqueous Solution using Iron Oxide Loaded Strong Base Anion Exchange Resin. <b>2023</b> , 35, 397-405	Ο
147	Smart micro- and nanorobots for water purification.	2
146	MXene-based materials for removal of antibiotics and heavy metals from wastewater a review. <b>2023</b> , 29, 100202	O
145	Bioleaching of critical metals using microalgae. <b>2023</b> , 10, 226-244	0
144	g-C3N4 based Chitosan Schiff base bio Nanocomposite for water purification. <b>2023</b> , 31, 096739112311701	Ο
143	Biomethane Production from Sugarcane Vinasse in a Circular Economy: Developments and Innovations. <b>2023</b> , 9, 349	O
142	Comparative physicochemical analysis of galvanic sludge wastes. 1-10	O
141	Immobilization Approach as a Creative Strategy to Remove Reactive Dye Red 195 and Cu2+ Ions from Wastewater Using Environmentally Benign Geopolymer Cement. <b>2023</b> , 15, 1797	Ο
140	Ixora coccinea L A reliable source of nanocellulose for bio-adsorbent applications. <b>2023</b> , 124467	O
139	Machine learning for predicting the dynamic extraction of multiple substances by emulsion liquid membranes. <b>2023</b> , 313, 123458	О
138	Immobilization of ZnIn2S4 on sodium alginate foam for efficient hexavalent chromium removal. <b>2023</b> , 236, 123848	O
137	Anti-fouling/wetting electrospun nanofibrous membranes for membrane distillation desalination: A comprehensive review. <b>2023</b> , 553, 116475	0
136	Zirconium Metal-Organic Framework bearing V-shape letrozole dicarboxylic acid for versatile fluorescence detection. <b>2023</b> , 550, 121436	O
135	A review on hybrid membrane-adsorption systems for intensified water and wastewater treatment: Process configurations, separation targets, and materials applied. <b>2023</b> , 335, 117577	0
134	Phytostabilization and rhizofiltration of toxic heavy metals by heavy metal accumulator plants for sustainable management of contaminated industrial sites: A comprehensive review. <b>2023</b> , 10, 100293	Ο
133	Periodic DFT study on heavy metals Cu(II) and Pb(II) atoms adsorption on Na-montmorillonite (010) edge surface. <b>2023</b> , 366-367, 115171	Ο
132	Use of Zero-Discharge Technology to Recycle Salt in Desulfurization Wastewater. <b>2023</b> , 149,	O

131	Ecofriendly removal of Lead, Cadmium and Arsenic along with turbidity from contaminated water using natural reservoir clay (NRC) and S. pasteurii derived urease. <b>2023</b> , 556, 116522	O
130	Comparative analysis of temporal variation of heavy metal accumulation by two sea urchin species from a harbour region, including pre and post COVID 19 lock down period. <b>2023</b> , 877, 162879	O
129	The mechanism of carcinogenic heavy metal adsorption on a new monolayer AlP5. 2023, 623, 157025	O
128	Synthesis of Amino-Engineered Graphene Oxidize Nanocomposite (GO/SBA-15) for Potential Copper Ions and Dye Removal from Aqueous Solution. <b>2023</b> , 149,	O
127	A systematic review on new advancement and assessment of emerging polymeric cryogels for environmental sustainability and energy production. <b>2023</b> , 316, 123678	0
126	Anthropogenic hyperactivity for natural resources increases heavy metals concentrations in the environment: Toxicity of healthy food and cancer risks estimated. <b>2023</b> , 4, 100057	O
125	Functionalization of pine sawdust biochars with Mg/Al layered double hydroxides to enhance adsorption capacity of synthetic azo dyes: Adsorption mechanisms and reusability. <b>2023</b> , 9, e14142	0
124	A critical scientific and policy opinion on reuse and reclamation of contaminated wastewater for agriculture and other purposes. <b>2023</b> , 11, 109352	O
123	Cellulose hydrogel and its derivatives: A review of application in heavy metal adsorption. <b>2023</b> , 152, 110721	О
122	Enhancement of Zn-N-C charge-directed rearrangement for high-performance selectivity of heavy metal ions in capacitive deionization. <b>2023</b> , 557, 116597	O
121	Adsorption of heavy metals on natural zeolites: A review. <b>2023</b> , 328, 138508	О
120	Removal of methylene blue by using sodium alginate-based hydrogel; validation of experimental findings via DFT calculations. <b>2023</b> , 122, 108468	O
119	Alkaline earth metal doped nickel ferrites as a potential material for heavy metal removal from waste water. <b>2023</b> , 301, 127582	0
118	Recent advances in adsorption of environmental pollutants using metal <b>b</b> rganic frameworks-based hydrogels. <b>2023</b> , 231, 123333	1
117	Role of microbial biofilms in bioremediation of organic pollutants in aquatic bodies. 2022, 173-188	О
116	Thallium removal from wastewater using sulfidized zero-valent manganese: Effects of sulfidation method and liquid nitrogen pretreatment. <b>2023</b> , 318, 137971	O
115	Efficient removal of heavy metal ions from wastewater and fixation of heavy metals in soil by manganese dioxide nanosorbents with tailored hollow mesoporous structure. <b>2023</b> , 459, 141583	0
114	Co/Fe co-doped ZIF-8 derived hierarchically porous composites as high-performance electrode materials for Cu2+ ions capacitive deionization. <b>2023</b> , 460, 141621	О

113	Peanut shell biochar immobilized Pseudomonas hibiscicola strain L1 to remove electroplating mixed-wastewater. <b>2023</b> , 11, 109411	О
112	Polyethylene glycol functionalized Fe3O4@MIL-101(Cr) for the efficient removal of heavy metals from Ligusticum chuanxiong Hort. <b>2023</b> , 16, 104635	O
111	Plants, animals, and fisheries waste mediated bioremediation of contaminants of environmental and emerging concern (CEECs) A circular bioresource utilization approach.	O
110	Sorption of Salts of Various Metals by Polyelectrolyte Microcapsules. <b>2023</b> , 24, 2834	O
109	Simultaneous Removal of Cyanide and Heavy Metals Using Photoelectrocoagulation. 2023, 15, 581	O
108	Preparation of sludgedyanobacteria composite carbon for synergistically enhanced co-removal of Cu(II) and Cr(VI). <b>2023</b> , 320, 138043	1
107	Variation in the Optical Properties of PEO-Based Composites via a Green Metal Complex: Macroscopic Measurements to Explain Microscopic Quantum Transport from the Valence Band to the Conduction Band. <b>2023</b> , 15, 771	О
106	Recovery Process for Critical Metals: Selective Adsorption of Nickel(II) from Cobalt(II) at Acidic Condition and Elevated Temperature. <b>2023</b> , 2023, 1-11	O
105	Extraction of Heavy Metal Ions Using Ionic Liquids. <b>2022</b> , 403-410	О
104	Production of cost-effective activated carbon from tea waste for tannery waste water treatment. <b>2023</b> , 13,	O
103	ZIF-67/SA@PVDF Ultrafiltration Membrane with Simultaneous Adsorption and Catalytic Oxidation for Dyes. <b>2023</b> , 15, 2879	О
102	Potentiality of Rod-Type Chitosan Adsorbent Derived from Sewage Sludge. <b>2023</b> , 13, 2055	O
101	Removing Mn, Cu and Fe from Real Wastewaters with Macrophytes: Reviewing the Relationship between Environmental Factors and Plants Dptake Capacity. <b>2023</b> , 11, 158	O
100	On validity, physical meaning, mechanism insights and regression of adsorption kinetic models. <b>2023</b> , 376, 121416	1
99	Potential Use of Industrial Biomass Waste as a Sustainable Energy Source in the Future. <b>2023</b> , 16, 1783	О
98	Amino-Functionalized Cellulose Nanofiber/Lignosulfonate New Aerogel Adsorbent for the Removal of Dyes and Heavy Metals from Wastewater. <b>2023</b> , 9, 154	2
97	Historical water body changes using spatio temporal indices - a case study of Dakshina Kannada. <b>2023</b> ,	O
96	Phytoremediation Potential of Heavy Metals by <i>Cyperus rotundus</i>. <b>2023</b> , 11, 20-35	O

95	Modeling, Simulation, Optimization, and Experimental Verification of Mercury Removal onto Natural and Sulfur-Impregnated Zeolite Clinoptilolite Assessment of Feasibility for Remediation of Mercury-Contaminated Soil. <b>2023</b> , 11, 606	О
94	Decolorization of Methylene Blue Solution by Employing Magnetized Artocarpus heterophyllus Fruit Peel as a Novel Adsorbent.	O
93	Genetic algorithm-assisted artificial neural network modelling for remediation and recovery of Pb (II) and Cr(VI) by manganese and cobalt spinel ferrite super nanoadsorbent. <b>2023</b> , 321, 138162	0
92	Carbon based nanomaterial interactions with metals and metalloids in terrestrial environment: A review. <b>2023</b> , 206, 325-339	0
91	Isolation and identification of naturally occurring textile effluent-degrading bacteria and evaluation of their ability to inhibit potentially toxic elements. <b>2023</b> , 17, 100967	О
90	A review on multi-synergistic transition metal oxide systems towards arsenic treatment: Near molecular analysis of surface-complexation (synchrotron studies/modeling tools). <b>2023</b> , 314, 102859	O
89	Removal of Copper Ions from Wastewater: A Review. <b>2023</b> , 20, 3885	1
88	Research status of volatile organic compound (VOC) removal technology and prospect of new strategies: a review.	O
87	Prospects of nanosorption and photocatalysis in remediation of oil spills. 1043	0
86	Application of composite construction and demolition debris in heavy metals removal from industrial wastewater. <b>2023</b> , 27, 1-10	O
85	Continuous adsorption of metal ions based on an elastic and reusable polydopamine-modified foam. <b>2023</b> , 52, 103592	О
84	Application of nanocomposites in wastewater treatment. <b>2023</b> , 297-319	O
83	Research on Improved MOF Materials Modified by Functional Groups for Purification of Water. <b>2023</b> , 28, 2141	О
82	Process optimizing of Zn (II) ion removal from aqueous solutions by black cumin seeds (Nigella Sativa) using response surface methodology. <b>2023</b> ,	O
81	Thin-film composite polymer membranes based on nylon and halloysite: synthesis, characterization, and performance.	O
80	Carbon NanostructuresBilica Aerogel Composites for Adsorption of Organic Pollutants. <b>2023</b> , 11, 232	O
79	On the adsorption of neodymium species from aqueous solution by beneficiated palygorskite. <b>2023</b> , 195, 108029	0
78	Evaluation of heavy metal and microbial contamination in various water resources of West and North Sikkim, India.	O

77	Lime slurry treatment of soils developing on abandoned coal mine spoil: Linking contaminant transport from the micrometer to pedon-scale. <b>2023</b> , 151, 105617	О
76	Investigations into the closed-loop hydrometallurgical process for heavy metals removal and recovery from biosolids via mild acid pre-treatment. <b>2023</b> , 218, 106044	О
75	Polymeric Nano-composite Membranes for Waste Water Treatment. <b>2023</b> , 91-108	О
74	Perspectives of nanomaterials in microbial remediation of heavy metals and their environmental consequences: A review. 1-48	О
73	Optical Quantification of Metal Ions Using Plasmonic Nanostructured Microbeads Coated with Metal Drganic Frameworks and Ion-Selective Dyes.	О
72	Utilization of Aquatic Plants Dead Biomass in Adsorption of Heavy Metals from Wastewater. <b>2023</b> , 655-668	O
71	Preparation of amino-functionalized fly ash based tobermorite for enhanced removal of Cr(VI). <b>2023</b> , 30, 54547-54555	1
70	Easily-manufactured paper-based materials with high porosity for adsorption/separation applications in complex wastewater.	О
69	Applications of microbial calcium carbonate precipitation in concrete through denitrification: a review. <b>2023</b> , 8,	О
68	The recent progress of ion exchange for the separation of rare earths from secondary resources IA review. <b>2023</b> , 218, 106047	O
67	Impregnation of Benzyl-L-cysteine into silica gel for the removal of cadmium(II) ion from water. <b>2023</b> , 106, 246-264	О
66	Effects of Formula Fertilizer and Biochar on Cadmium and Plumbum Absorption in Maize (Zea mays L.). <b>2023</b> , 15, 4696	О
65	Insights into the adsorption performance and mechanism of Cr(VI) onto porous nanocomposite prepared from gossans and modified coal interface: Steric, energetic, and thermodynamic parameters interpretations. 2023,	О
64	Heavy Metal Detection in Fritillaria thunbergii Using Laser-Induced Breakdown Spectroscopy Coupled with Variable Selection Algorithm and Chemometrics. <b>2023</b> , 12, 1125	О
63	Recent progress of photoelectrocatalysis systems for wastewater treatment. <b>2023</b> , 53, 103609	О
62	Ecosystem Protection through Myco-Remediation of Chromium and Arsenic. 2023, 13, 159-171	О
61	Salt Transport in Crosslinked Hydrogel Membranes Containing Zwitterionic Sulfobetaine Methacrylate and Hydrophobic Phenyl Acrylate. <b>2023</b> , 15, 1387	О
60	A Review of Pectin-Based Material for Applications in Water Treatment. <b>2023</b> , 16, 2207	О

59	The ion flotation of copper, nickel, and cobalt using the biosurfactant surfactin. 2023, 3,	0
58	Removal of metals from water using MOF-based composite adsorbents.	O
57	Facile Synthesis of the Polyaniline@Waste Cellulosic Nanocomposite for the Efficient Decontamination of Copper(II) and Phenol from Wastewater. <b>2023</b> , 13, 1014	0
56	Synthesis of Chemically Modified Acid-Functionalized Multiwall Carbon Nanotubes with Benzimidazole for Removal of Lead and Cadmium Ions from Wastewater. <b>2023</b> , 15, 1421	0
55	Application of Raw and CTAB Activated Bentonite in the Treatment of Ammonia-Phenolic Wastewater. <b>2023</b> , 292-300	0
54	Artificial neural network (ANN) modeling for simultaneous removal of a binary mixture of Pb(II) and Cu(II) by cobalt hydroxide nano-flakes. <b>2023</b> , 37,	O
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