

# Carmen Mihaela Neculita

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

90 papers	1,915 citations	22 h-index	41 g-index
92 ext. papers	2,287 ext. citations	5.5 avg, IF	5.49 L-index

#	Paper	IF	Citations
90	Passive treatment of acid mine drainage in bioreactors using sulfate-reducing bacteria: critical review and research needs. <i>Journal of Environmental Quality</i> , <b>2007</b> , 36, 1-16	3.4	358
89	Characterization and reactivity assessment of organic substrates for sulphate-reducing bacteria in acid mine drainage treatment. <i>Chemosphere</i> , <b>2006</b> , 64, 944-54	8.4	168
88	Determination of point of zero charge of natural organic materials. <i>Environmental Science and Pollution Research</i> , <b>2018</b> , 25, 7823-7833	5.1	97
87	Biological treatment of highly contaminated acid mine drainage in batch reactors: Long-term treatment and reactive mixture characterization. <i>Journal of Hazardous Materials</i> , <b>2008</b> , 157, 358-66	12.8	85
86	Effectiveness of sulfate-reducing passive bioreactors for treating highly contaminated acid mine drainage: II. Metal removal mechanisms and potential mobility. <i>Applied Geochemistry</i> , <b>2008</b> , 23, 3545-3560	3.5	60
85	Mercury fractionation, bioavailability, and ecotoxicity in highly contaminated soils from chlor-alkali plants. <i>Environmental Toxicology and Chemistry</i> , <b>2006</b> , 25, 1138-47	3.8	55
84	Bioelectrochemical treatment of acid mine drainage dominated with iron. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 241-242, 411-7	12.8	54
83	Mercury speciation in highly contaminated soils from chlor-alkali plants using chemical extractions. <i>Journal of Environmental Quality</i> , <b>2005</b> , 34, 255-62	3.4	52
82	A review of the implications and challenges of manganese removal from mine drainage. <i>Chemosphere</i> , <b>2019</b> , 214, 491-510	8.4	48
81	Effectiveness of sulfate-reducing passive bioreactors for treating highly contaminated acid mine drainage: I. Effect of hydraulic retention time. <i>Applied Geochemistry</i> , <b>2008</b> , 23, 3442-3451	3.5	47
80	Comparative effectiveness of mixed organic substrates to mushroom compost for treatment of mine drainage in passive bioreactors. <i>Chemosphere</i> , <b>2011</b> , 83, 76-82	8.4	41
79	Recovery and reuse of sludge from active and passive treatment of mine drainage-impacted waters: a review. <i>Environmental Science and Pollution Research</i> , <b>2017</b> , 24, 73-91	5.1	40
78	Pilot-scale passive bioreactors for the treatment of acid mine drainage: efficiency of mushroom compost vs. mixed substrates for metal removal. <i>Journal of Environmental Management</i> , <b>2012</b> , 111, 150-8	7.9	39
77	Biochemical passive reactors for treatment of acid mine drainage: Effect of hydraulic retention time on changes in efficiency, composition of reactive mixture, and microbial activity. <i>Chemosphere</i> , <b>2016</b> , 153, 244-53	8.4	38
76	Effect of hydraulic retention time on microbial community in biochemical passive reactors during treatment of acid mine drainage. <i>Bioresource Technology</i> , <b>2018</b> , 247, 624-632	11	34
75	Removal and potential recovery of rare earth elements from mine water. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2020</b> , 89, 47-57	6.3	33
74	Activated Biochar as an Effective Sorbent for Organic and Inorganic Contaminants in Water. <i>Water, Air, and Soil Pollution</i> , <b>2018</b> , 229, 1	2.6	33

73	Performance of thermally activated dolomite for the treatment of Ni and Zn in contaminated neutral drainage. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 310, 48-55	12.8	31
72	Recovery potential of rare earth elements from mining and industrial residues: A review and cases studies. <i>Journal of Geochemical Exploration</i> , <b>2021</b> , 221, 106699	3.8	30
71	Production, characterization, and potential of activated biochar as adsorbent for phenolic compounds from leachates in a lumber industry site. <i>Environmental Science and Pollution Research</i> , <b>2018</b> , 25, 26562-26575	5.1	27
70	Metals and metalloids treatment in contaminated neutral effluents using modified materials. <i>Journal of Environmental Management</i> , <b>2018</b> , 212, 142-159	7.9	24
69	Effectiveness of various dispersed alkaline substrates for the pre-treatment of ferriferous acid mine drainage. <i>Applied Geochemistry</i> , <b>2016</b> , 73, 13-23	3.5	23
68	Comparative column testing of three reactive mixtures for the bio-chemical treatment of iron-rich acid mine drainage. <i>Minerals Engineering</i> , <b>2017</b> , 111, 79-89	4.9	22
67	Performance of passive systems for mine drainage treatment at low temperature and high salinity: A review. <i>Minerals Engineering</i> , <b>2019</b> , 134, 325-344	4.9	21
66	Treatment of As-rich mine effluents and produced residues stability: Current knowledge and research priorities for gold mining. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 386, 121920	12.8	20
65	Selection of reactive mixture for biochemical passive treatment of acid mine drainage. <i>Environmental Earth Sciences</i> , <b>2016</b> , 75, 1	2.9	20
64	In Situ Immobilization of Heavy Metals in Severely Weathered Tailings Amended with Food Waste-Based Compost and Zeolite. <i>Water, Air, and Soil Pollution</i> , <b>2013</b> , 224, 1	2.6	19
63	Performance of Mixed Organic Substrates during Treatment of Acidic and Moderate Mine Drainage in Column Bioreactors. <i>Journal of Environmental Engineering, ASCE</i> , <b>2012</b> , 138, 1077-1084	2	18
62	The influences of the amount of organic substrate on the performance of pilot-scale passive bioreactors for acid mine drainage treatment. <i>Environmental Earth Sciences</i> , <b>2015</b> , 73, 4717-4727	2.9	16
61	Environmental behavior of metal-rich residues from the passive treatment of acid mine drainage. <i>Science of the Total Environment</i> , <b>2020</b> , 712, 136541	10.2	16
60	Removal efficiency of As(V) and Sb(III) in contaminated neutral drainage by Fe-loaded biochar. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 9322-9332	5.1	15
59	Performance assessment of laboratory and field-scale multi-step passive treatment of iron-rich acid mine drainage for design improvement. <i>Environmental Science and Pollution Research</i> , <b>2018</b> , 25, 17575-17589	5.1	15
58	Iron removal in highly contaminated acid mine drainage using passive biochemical reactors. <i>Water Science and Technology</i> , <b>2017</b> , 76, 1833-1843	2.2	15
57	The influence of pilot-scale pyro-gasification and activation conditions on porosity development in activated biochars. <i>Biomass and Bioenergy</i> , <b>2018</b> , 118, 105-114	5.3	15
56	Efficiency of ozone microbubbles for ammonia removal from mine effluents. <i>Minerals Engineering</i> , <b>2020</b> , 145, 106071	4.9	14

55	Comparative efficiency of microbial fuel cells and electrocoagulation for the treatment of iron-rich acid mine drainage. <i>Journal of Environmental Chemical Engineering</i> , <b>2019</b> , 7, 103149	6.8	13
54	Biosulfides precipitation in weathered tailings amended with food waste-based compost and zeolite. <i>Journal of Environmental Quality</i> , <b>2012</b> , 41, 1857-64	3.4	13
53	Characterization of phosphate processing sludge from Tunisian mining basin and its potential valorization in fired bricks making. <i>Journal of Cleaner Production</i> , <b>2021</b> , 284, 124750	10.3	13
52	Changes in Efficiency and Hydraulic Parameters During the Passive Treatment of Ferriferous Acid Mine Drainage in Biochemical Reactors. <i>Mine Water and the Environment</i> , <b>2018</b> , 37, 686-695	2.4	13
51	Impact of fresh tailing deposition on the evolution of groundwater hydrogeochemistry at the abandoned Manitou mine site, Quebec, Canada. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 9054-72	5.1	12
50	Prediction of the environmental behavior of residues from the passive treatment of acid mine drainage. <i>Applied Geochemistry</i> , <b>2019</b> , 110, 104421	3.5	11
49	Removal of Ni and Zn in contaminated neutral drainage by raw and modified wood ash. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2017</b> , 52, 117-126	2.3	11
48	Toxicity and metal speciation in acid mine drainage treated by passive bioreactors. <i>Environmental Toxicology and Chemistry</i> , <b>2008</b> , 27, 1659	3.8	11
47	Stability of metal-rich residues from laboratory multi-step treatment system for ferriferous acid mine drainage. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 35588-35601	5.1	10
46	Ferrates performance in thiocyanates and ammonia degradation in gold mine effluents. <i>Minerals Engineering</i> , <b>2016</b> , 95, 124-130	4.9	10
45	Influence of Pyro-Gasification and Activation Conditions on the Porosity of Activated Biochars: A Literature Review. <i>Waste and Biomass Valorization</i> , <b>2020</b> , 11, 5079-5098	3.2	10
44	Electro-Fenton beyond the Degradation of Organics: Treatment of Thiosalts in Contaminated Mine Water. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 2564-2574	10.3	10
43	Efficiency of batch biochemical reactors for mine drainage treatment at low temperature and high salinity. <i>Applied Geochemistry</i> , <b>2019</b> , 103, 40-49	3.5	9
42	Evaluation of Arsenic Leaching Potential in Gold Mine Tailings Amended with Peat and Mine Drainage Treatment Sludge. <i>Journal of Environmental Quality</i> , <b>2019</b> , 48, 735-745	3.4	9
41	Assessment of the leaching potential of flotation tailings from rare earth mineral extraction in cold climates. <i>Science of the Total Environment</i> , <b>2020</b> , 732, 139225	10.2	9
40	Influence of contaminant to hydrogen peroxide to catalyzer molar ratio in the advanced oxidation of thiocyanates and ammonia nitrogen using Fenton-based processes. <i>Journal of Environmental Chemical Engineering</i> , <b>2016</b> , 4, 4129-4136	6.8	9
39	Performances of stabilization/solidification process of acid mine drainage passive treatment residues: Assessment of the environmental and mechanical behaviors. <i>Journal of Environmental Management</i> , <b>2020</b> , 269, 110764	7.9	7
38	Performance of Physically and Chemically Activated Biochars in Copper Removal from Contaminated Mine Effluents. <i>Water, Air, and Soil Pollution</i> , <b>2019</b> , 230, 1	2.6	7

37	Using fluorescence-based microplate assay to assess DOM-metal binding in reactive materials for treatment of acid mine drainage. <i>Journal of Environmental Sciences</i> , <b>2011</b> , 23, 891-6	6.4	7
36	Freezing/thawing effects on geochemical behavior of residues from acid mine drainage passive treatment systems. <i>Journal of Water Process Engineering</i> , <b>2020</b> , 33, 101087	6.7	7
35	Sulfate removal from mine drainage by electrocoagulation as a stand-alone treatment or polishing step. <i>Minerals Engineering</i> , <b>2020</b> , 152, 106337	4.9	6
34	Comparative efficiency of three advanced oxidation processes for thiosalts oxidation in mine-impacted water. <i>Minerals Engineering</i> , <b>2020</b> , 152, 106349	4.9	6
33	Influence of ferric iron source on ferrate <sup>VI</sup> performance and residual contamination during the treatment of gold mine effluents. <i>Minerals Engineering</i> , <b>2018</b> , 127, 61-66	4.9	6
32	Effect of the electrocoagulation process on the toxicity of gold mine effluents: A comparative assessment of <i>Daphnia magna</i> and <i>Daphnia pulex</i> . <i>Science of the Total Environment</i> , <b>2020</b> , 708, 134739	10.2	6
31	Salinity and low temperature effects on the performance of column biochemical reactors for the treatment of acidic and neutral mine drainage. <i>Chemosphere</i> , <b>2020</b> , 243, 125303	8.4	6
30	Reclamation of hard rock mines tailings with organic amendments: pore water quality control and phytostabilization – a review	112, 53-71	5
29	Characterization of Kef Shfeir phosphate sludge (Gafsa, Tunisia) and optimization of its dewatering. <i>Journal of Environmental Management</i> , <b>2020</b> , 254, 109801	7.9	5
28	Evaluation of biogeochemical reactivity of fresh and weathered contaminated dredged sediments. <i>Journal of Soils and Sediments</i> , <b>2017</b> , 17, 543-556	3.4	4
27	Active Treatment of Contaminants of Emerging Concern in Cold Mine Water Using Advanced Oxidation and Membrane-Related Processes: A Review. <i>Minerals (Basel, Switzerland)</i> , <b>2021</b> , 11, 259	2.4	4
26	Manganese removal processes and geochemical behavior in residues from passive treatment of mine drainage. <i>Chemosphere</i> , <b>2020</b> , 259, 127424	8.4	3
25	Comparison of organic materials for the passive treatment of synthetic neutral mine drainage contaminated by nickel: Short- and medium-term batch experiments. <i>Applied Geochemistry</i> , <b>2020</b> , 123, 104772	3.5	3
24	Efficiency of eight modified materials for As(V) removal from synthetic and real mine effluents. <i>Minerals Engineering</i> , <b>2020</b> , 151, 106310	4.9	2
23	Nitrification-Denitrification of Thiocyanate, Ammonia, and Nitrates in Highly Contaminated Gold Mine Effluents Using Methanol as Energy Source. <i>Journal of Environmental Engineering, ASCE</i> , <b>2018</b> , 144, 05018002	2	2
22	Comparison of Organic Materials for the Passive Treatment of Synthetic Neutral Mine Drainage Contaminated by Nickel: Adsorption and Desorption Kinetics and Isotherms. <i>Water, Air, and Soil Pollution</i> , <b>2020</b> , 231, 1	2.6	2
21	Removal and Recovery of Ni and Zn from Contaminated Neutral Drainage by Thermally Activated Dolomite and Hydrothermally Activated Wood Ash. <i>Water, Air, and Soil Pollution</i> , <b>2020</b> , 231, 1	2.6	1
20	Impact of freeze-thaw on the behaviour of flotation tailings from a rare earth deposit. <i>Applied Geochemistry</i> , <b>2021</b> , 135, 105106	3.5	1

19	Toxicity and metal speciation in acid mine drainage treated by passive bioreactors. <i>Environmental Toxicology and Chemistry</i> , <b>2008</b> , 27, 1659-67	3.8	1
18	Future Prospects for Treating Contaminants of Emerging Concern in Water and Soils/Sediments. <i>Applied Environmental Science and Engineering for A Sustainable Future</i> , <b>2020</b> , 589-605	0.5	1
17	Treatment of metals and metalloids in neutral mine effluents using modified materials <b>2017</b> , 499-510		1
16	Treatment efficiency of iron-rich acid mine drainage in a tri-unit pilot system. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 8418-8430	5.1	1
15	Compaction of peat cover over desulfurized gold mine tailings changes: Arsenic speciation and mobility. <i>Applied Geochemistry</i> , <b>2021</b> , 128, 104923	3.5	1
14	In-situ pilot-scale passive biochemical reactors for Ni removal from saline mine drainage under subarctic climate conditions. <i>Journal of Water Process Engineering</i> , <b>2021</b> , 41, 102062	6.7	1
13	Treatment of manganese, in the presence or absence of iron, in acid and neutral mine drainage using raw vs half-calcined dolomite. <i>Minerals Engineering</i> , <b>2021</b> , 160, 106666	4.9	1
12	Stabilization/solidification of sediments: challenges and novelties <b>2022</b> , 93-112		0
11	Tracing the sources and fate of nitrogen at a Canadian underground gold mine. <i>Applied Geochemistry</i> , <b>2022</b> , 105238	3.5	0
10	Passive multi-unit field-pilot for acid mine drainage remediation: Performance and environmental assessment of post-treatment solid waste. <i>Chemosphere</i> , <b>2021</b> , 291, 133051	8.4	0
9	Passive treatment of acid mine drainage from the Sidi-Kamber mine wastes (Mediterranean coastline, Algeria) using neighbouring phosphate material from the Djebel Onk mine. <i>Science of the Total Environment</i> , <b>2021</b> , 151002	10.2	0
8	Prediction and Potential Treatment of Underground Contaminated Water Based on Monitoring of pH and Salinity in a Coal Mine Waste Heap, Southern Poland. <i>Minerals (Basel, Switzerland)</i> , <b>2022</b> , 12, 391	2.4	0
7	Electro-Fenton treatment of contaminated mine water to decrease thiosalts toxicity to <i>Daphnia magna</i> . <i>Science of the Total Environment</i> , <b>2022</b> , 155323	10.2	0
6	Violation of ethical guidelines or plagiarism?. <i>Minerals Engineering</i> , <b>2011</b> , 24, 967-968	4.9	
5	Mine-impacted water treatment [how the bottom line can be raised?]. <i>International Journal of Mining, Reclamation and Environment</i> , <b>2010</b> , 24, 193-194	2.2	
4	Stabilization/solidification of acid mine drainage treatment sludge <b>2022</b> , 175-199		
3	Removal of nickel from neutral mine drainage using peat-calcite, compost, and wood ash in column reactors. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 14854-14866	5.1	
2	Behaviour of flotation tailings from a rare earth element deposit at high salinity. <i>Journal of Environmental Management</i> , <b>2021</b> , 300, 113773	7.9	

- 1 Improvement of water recovery from phosphate sludge at the M'Dhilla Mine, Tunisia..  
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