

# Douglas I Stewart

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

1,482  
citations

331538

21  
h-index

330025

37  
g-index

41  
all docs

41  
docs citations

41  
times ranked

1796  
citing authors

#	ARTICLE	IF	CITATIONS
1	In situ disposal of crushed concrete waste as void fill material at UK nuclear sites: Leaching behavior and effect of pH on trace element release. <i>Journal of Hazardous Materials Advances</i> , 2022, 5, 100043.	1.2	0
2	Potential reuse options for biomass combustion ash as affected by the persistent organic pollutants (POPs) content. <i>Journal of Hazardous Materials Advances</i> , 2022, 5, 100038.	1.2	2
3	Beneficial management of biomass combustion ashes. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 151, 111555.	8.2	46
4	The Influence of Hyper-Alkaline Leachate on a Generic Host Rock Composition for a Nuclear Waste Repository: Experimental Assessment and Modelling of Novel Variable Porosity and Surface Area. <i>Transport in Porous Media</i> , 2021, 140, 559-580.	1.2	2
5	The Behavior of Low Molecular Weight Organic Carbon-14 Containing Compounds in Contaminated Groundwater During Denitrification and Iron-Reduction. <i>Geomicrobiology Journal</i> , 2020, 37, 486-495.	1.0	3
6	Abiotic reduction of Cr(VI) by humic acids derived from peat and lignite: kinetics and removal mechanism. <i>Environmental Science and Pollution Research</i> , 2019, 26, 4717-4729.	2.7	42
7	Hydration of dicalcium silicate and diffusion through neo-formed calcium-silicate-hydrates at weathered surfaces control the long-term leaching behaviour of basic oxygen furnace (BOF) steelmaking slag. <i>Environmental Science and Pollution Research</i> , 2018, 25, 9861-9872.	2.7	20
8	Reoxidation of estuarine sediments during simulated resuspension events: Effects on nutrient and trace metal mobilisation. <i>Estuarine, Coastal and Shelf Science</i> , 2018, 207, 40-55.	0.9	17
9	Enhanced Crystallographic Incorporation of Strontium(II) Ions into Calcite via Preferential Adsorption at Obtuse Growth Steps. <i>Crystal Growth and Design</i> , 2018, 18, 2836-2843.	1.4	12
10	Sustained Bauxite Residue Rehabilitation with Gypsum and Organic Matter 16 years after Initial Treatment. <i>Environmental Science &amp; Technology</i> , 2018, 52, 152-161.	4.6	79
11	Leaching behaviour of co-disposed steel making wastes: Effects of aeration on leachate chemistry and vanadium mobilisation. <i>Waste Management</i> , 2018, 81, 1-10.	3.7	13
12	Behaviour and fate of vanadium during the aerobic neutralisation of hyperalkaline slag leachate. <i>Science of the Total Environment</i> , 2018, 643, 1191-1199.	3.9	21
13	Options for managing alkaline steel slag leachate: A life cycle assessment. <i>Journal of Cleaner Production</i> , 2018, 202, 401-412.	4.6	24
14	Behaviour of carbon-14 containing low molecular weight organic compounds in contaminated groundwater under aerobic conditions. <i>Journal of Environmental Radioactivity</i> , 2018, 192, 279-288.	0.9	3
15	Mechanisms of inorganic carbon-14 attenuation in contaminated groundwater: Effect of solution pH on isotopic exchange and carbonate precipitation reactions. <i>Applied Geochemistry</i> , 2017, 85, 137-147.	1.4	6
16	Mechanism of Vanadium Leaching during Surface Weathering of Basic Oxygen Furnace Steel Slag Blocks: A Microfocus X-ray Absorption Spectroscopy and Electron Microscopy Study. <i>Environmental Science &amp; Technology</i> , 2017, 51, 7823-7830.	4.6	50
17	Hydraulic and biotic impacts on neutralisation of high-pH waters. <i>Science of the Total Environment</i> , 2017, 601-602, 1271-1279.	3.9	14
18	Coprecipitation of <sup>14</sup> C and Sr with carbonate precipitates: The importance of reaction kinetics and recrystallization pathways. <i>Science of the Total Environment</i> , 2016, 562, 335-343.	3.9	31

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19	Role of an organic carbon-rich soil and Fe(III) reduction in reducing the toxicity and environmental mobility of chromium(VI) at a COPR disposal site. <i>Science of the Total Environment</i> , 2016, 541, 1191-1199.	3.9	42
20	Alkaline residues and the environment: a review of impacts, management practices and opportunities. <i>Journal of Cleaner Production</i> , 2016, 112, 3571-3582.	4.6	243
21	Population Changes in a Community of Alkaliphilic Iron-Reducing Bacteria Due to Changes in the Electron Acceptor: Implications for Bioremediation at Alkaline Cr(VI)-Contaminated Sites. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 180.	1.1	23
22	Leaching of copper and nickel in soil-water systems contaminated by bauxite residue (red mud) from Ajka, Hungary: the importance of soil organic matter. <i>Environmental Science and Pollution Research</i> , 2015, 22, 10800-10810.	2.7	44
23	Mobilisation of arsenic from bauxite residue (red mud) affected soils: Effect of pH and redox conditions. <i>Applied Geochemistry</i> , 2014, 51, 268-277.	1.4	50
24	Extracellular Electron Transport-Mediated Fe(III) Reduction by a Community of Alkaliphilic Bacteria That Use Flavins as Electron Shuttles. <i>Applied and Environmental Microbiology</i> , 2014, 80, 128-137.	1.4	86
25	Chromate Reduction in Highly Alkaline Groundwater by Zerovalent Iron: Implications for Its Use in a Permeable Reactive Barrier. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 4704-4714.	1.8	33
26	Gypsum addition to soils contaminated by red mud: implications for aluminium, arsenic, molybdenum and vanadium solubility. <i>Environmental Geochemistry and Health</i> , 2013, 35, 643-656.	1.8	51
27	Behavior of Aluminum, Arsenic, and Vanadium during the Neutralization of Red Mud Leachate by HCl, Gypsum, or Seawater. <i>Environmental Science &amp; Technology</i> , 2013, 47, 6527-6535.	4.6	115
28	Flow Cell Design for Effective Biosensing. <i>Sensors</i> , 2013, 13, 58-70.	2.1	18
29	Biogeochemical Reduction Processes in a Hyper-Alkaline Leachate Affected Soil Profile. <i>Geomicrobiology Journal</i> , 2012, 29, 769-779.	1.0	26
30	Chromate reduction in Fe(II)-containing soil affected by hyperalkaline leachate from chromite ore processing residue. <i>Journal of Hazardous Materials</i> , 2011, 194, 15-23.	6.5	50
31	Microbially mediated chromate reduction in soil contaminated by highly alkaline leachate from chromium containing waste. <i>Ecological Engineering</i> , 2010, 36, 211-221.	1.6	49
32	Biosensing for the Environment and Defence: Aqueous Uranyl Detection Using Bacterial Surface Layer Proteins. <i>Sensors</i> , 2010, 10, 4739-4755.	2.1	20
33	Performance of a functionalised polymer-coated silica at treating uranium contaminated groundwater from a Hungarian mine site. <i>Engineering Geology</i> , 2006, 85, 174-183.	2.9	9
34	Performance of three resin-based materials for treating uranium-contaminated groundwater within a PRB. <i>Journal of Hazardous Materials</i> , 2004, 116, 191-204.	6.5	57
35	Performance of a Functionalised Polymer-Coated Silica at Treating Uranium Contaminated Groundwater from a Hungarian Mine Site. , 2004, , 347-356.		0
36	Development of a Functionalized Polymer-Coated Silica for the Removal of Uranium from Groundwater. <i>Environmental Science &amp; Technology</i> , 2003, 37, 4011-4016.	4.6	73

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37	Effect of humic substances on Cu(II) solubility in kaolin-sand soil. Journal of Hazardous Materials, 2002, 94, 223-238.	6.5	66
38	Copper(II) humate mobility in kaolinite soil. Engineering Geology, 2001, 60, 275-284.	2.9	15
39	Resistivity imaging of soil during electrokinetic transport. Engineering Geology, 1999, 53, 205-215.	2.9	27
40	Electrokinetic Transport in Natural Soil Cores. Studies in Environmental Science, 1997, , 689-698.	0.0	0