

Rehab O Abdel Rahman

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2258470/publications.pdf>

Version: 2024-02-01

68
papers

1,448
citations

394421

19
h-index

377865

34
g-index

85
all docs

85
docs citations

85
times ranked

937
citing authors

#	ARTICLE	IF	CITATIONS
1	Liquid Radioactive Wastes Treatment: A Review. <i>Water (Switzerland)</i> , 2011, 3, 551-565.	2.7	293
2	Modeling the long-term leaching behavior of ¹³⁷ Cs, ⁶⁰ Co, and ^{152,154} Eu radionuclides from cement-clay matrices. <i>Journal of Hazardous Materials</i> , 2007, 145, 372-380.	12.4	94
3	Assessment of synthetic zeolite Na A-X as sorbing barrier for strontium in a radioactive disposal facility. <i>Chemical Engineering Journal</i> , 2010, 157, 100-112.	12.7	94
4	Evaluation of synthetic Birnessite utilization as a sorbent for cobalt and strontium removal from aqueous solution. <i>Chemical Engineering Journal</i> , 2016, 284, 1373-1385.	12.7	66
5	Cesium binding and leaching from single and binary contaminant cement-bentonite matrices. <i>Chemical Engineering Journal</i> , 2014, 245, 276-287.	12.7	52
6	Assessment of strontium immobilization in cement-bentonite matrices. <i>Chemical Engineering Journal</i> , 2013, 228, 772-780.	12.7	51
7	Assessment of the leaching characteristics of incineration ashes in cement matrix. <i>Chemical Engineering Journal</i> , 2009, 155, 698-708.	12.7	50
8	Optimizing the removal of strontium and cesium ions from binary solutions on magnetic nano-zeolite using response surface methodology (RSM) and artificial neural network (ANN). <i>Environmental Research</i> , 2019, 173, 397-410.	7.5	47
9	Application of Ionizing Radiation in Wastewater Treatment: An Overview. <i>Water (Switzerland)</i> , 2020, 12, 19.	2.7	45
10	Long-term performance of zeolite Na A-X blend as backfill material in near surface disposal vault. <i>Chemical Engineering Journal</i> , 2009, 149, 143-152.	12.7	43
11	Comparative study of leaching conceptual models: Cs leaching from different ILW cement based matrices. <i>Chemical Engineering Journal</i> , 2011, 173, 722-736.	12.7	42
12	Factorial design analysis for optimizing the removal of cesium and strontium ions on synthetic nano-sized zeolite. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 55, 133-144.	5.3	41
13	An overview of research activities on cementitious materials for radioactive waste management. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1475, 253.	0.1	39
14	Preliminary investigation of zinc transport through zeolite-X barrier: Linear isotherm assumption. <i>Chemical Engineering Journal</i> , 2012, 185-186, 61-70.	12.7	32
15	Optimization of the utilization of Mg/Fe hydrotalcite like compounds in the removal of Sr(II) from aqueous solution. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 4619-4630.	6.7	31
16	Comparative analysis of nuclear waste solidification performance models: Spent ion exchanger-cement based wastefoms. <i>Chemical Engineering Research and Design</i> , 2020, 136, 115-125.	5.6	31
17	An Assessment of Initial Leaching Characteristics of Alkali-Borosilicate Glasses for Nuclear Waste Immobilization. <i>Materials</i> , 2019, 12, 1462.	2.9	29
18	Applications of Nano-Zeolite in Wastewater Treatment: An Overview. <i>Water (Switzerland)</i> , 2022, 14, 137.	2.7	26

#	ARTICLE	IF	CITATIONS
19	Modification of Mg-Fe hydrotalcite using Cyanex 272 for lanthanides separation. Chemical Engineering Journal, 2017, 316, 758-769.	12.7	21
20	Modeling batch kinetics of cesium, cobalt and strontium ions adsorption from aqueous solutions using hydrous titanium oxide. Radiochimica Acta, 2007, 95, 409-416.	1.2	20
21	Preliminary evaluation of the technical feasibility of using different soils in waste disposal cover system. Environmental Progress and Sustainable Energy, 2011, 30, 19-28.	2.3	20
22	Chapter 16: RADIOACTIVE POLLUTION AND CONTROL. , 2014, , 949-1027.		20
23	Remediation of NORM and TENORM contaminated sitesâ€”Review article. Environmental Progress and Sustainable Energy, 2014, 33, 588-596.	2.3	20
24	Toward Sustainable Cementitious Radioactive Waste Forms: Immobilization of Problematic Operational Wastes. Sustainability, 2021, 13, 11992.	3.2	17
25	Assessment of Cyanex 301 impregnated resin for its potential use to remove cobalt from aqueous solutions. Environmental Research, 2020, 185, 109402.	7.5	15
26	Preliminary assessment of modified borosilicate glasses for chromium and ruthenium immobilization. Materials Chemistry and Physics, 2017, 186, 462-469.	4.0	13
27	Assessment of POFA -Cementitious material as backfill barrier in DSRS borehole disposal: 226Ra confinement. Journal of Environmental Management, 2021, 280, 111703.	7.8	13
28	Recent Evaluation of Early Radioactive Disposal Practice. , 2016, , 371-400.		10
29	Cement Based Materials. , 2018, , .		10
30	Recent Trends in the Evaluation of Cementitious Material in Radioactive Waste Disposal. , 2016, , 401-448.		9
31	Planning for a solid waste management quality assurance program in Egypt. Quality Assurance Journal, 2007, 11, 53-59.	0.1	8
32	Planning and Implementation of Radioactive Waste Management System. , 2012, , .		8
33	Introductory Chapter: Safety Aspects in Nuclear Engineering. , 2018, , .		8
34	Mechanistic insights into the dynamics of radionuclides retention in evolved POFA-OPC and OPC barriers in radioactive waste disposal. Chemical Engineering Journal, 2022, 437, 135423.	12.7	8
35	Design of a quality control system for a radioactive aqueous waste treatment facility. Quality Assurance Journal, 2009, 12, 31-39.	0.1	7
36	Leaching Tests and Modelling of Cementitious Wasteforms Corrosion. Innovations in Corrosion and Materials Science, 2015, 4, 90-95.	0.2	7

#	ARTICLE	IF	CITATIONS
37	Radioactive Waste. , 2012, , .		7
38	Utilization of synthetic nano-cryptomelane for enhanced scavenging of cesium and cobalt ions from single and binary solutions. Journal of Radioanalytical and Nuclear Chemistry, 2022, 331, 1821-1838.	1.5	6
39	Introductory Chapter: Properties and Applications of Cement- Based Materials. , 0, , .		5
40	Evolution of cations speciation during the initial leaching stage of alkali-borosilicate-glasses. MRS Advances, 2020, 5, 185-193.	0.9	5
41	Optimization and modeling of Uranium recovery from acidic aqueous solutions using liquid membrane with Lix-622 as Phenolic-oxime carrier. Chemical Engineering Research and Design, 2022, 180, 25-37.	5.6	5
42	Life Cycle of Ion Exchangers in Nuclear Industry: Application and Management of Spent Exchangers. , 2019, , 3709-3732.		4
43	Water Quality Engineering and Wastewater Treatment. Water (Switzerland), 2021, 13, 330.	2.7	4
44	Nuclear Material Performance. , 2016, , .		4
45	Management of Hazardous Wastes. , 2016, , .		4
46	Sustainability of solvent extraction techniques in pollution prevention and control. , 2021, , 33-66.		3
47	Introductory Chapter: Development of Assessment Models to Support Pollution Preventive and Control Decisions. , 0, , .		3
48	Life Cycle of Ion Exchangers in Nuclear Industry: Application and Management of Spent Exchangers. , 2018, , 1-25.		2
49	Introduction to the nuclear industry sustainability. , 2021, , 3-47.		2
50	Sustainability of cementitious structures, systems, and components (SSCâ€™s): Long-term environmental stressors. , 2021, , 181-232.		2
51	Introductory Chapter: Introduction to Current Trends in Nuclear material Research and Technology. , 2016, , .		1
52	Innovative and conventional cementitious systems in nuclear industryâ€™Safety aspect. , 2021, , 49-87.		1
53	Improving the Performance of Engineering Barriers inÂRadioactive Waste Disposal Facilities:ÂRole of Nano-materials. , 2021, , 1183-1200.		1
54	Techniques to test cementitious systems through their life cycles. , 2021, , 407-430.		1

#	ARTICLE	IF	CITATIONS
55	Life Cycle of Polymer Nanocomposites Matrices in Hazardous Waste Treatment. , 2019, , 1-23.		1
56	Future Trends and Concluding Remarks. , 2013, , 607-623.		0
57	Considerations in construction of nuclear cements: Materials, technologies, and management systems. , 2021, , 271-295.		0
58	Terms and glossary relevant to nuclear cementitious systems. , 2021, , 629-646.		0
59	Age management and maintenance of cementitious SSCâ€™s during operation phase. , 2021, , 385-405.		0
60	Behavior of cementitious SSCâ€™s in mitigating accidents. , 2021, , 233-267.		0
61	Life cycle of nuclear cementitious structures, systems, and components. , 2021, , 89-121.		0
62	Life Cycle of Polymer Nanocomposites Matrices in Hazardous Waste Treatment. , 2021, , 1603-1625.		0
63	Evaluation of radium and caesium containment performance of palm oil fuel ash-supplemented cementitious backfill for borehole disposal: Kinetic investigations. IOP Conference Series: Materials Science and Engineering, 2021, 1106, 012018.	0.6	0
64	Introductory Chapter: Uncertainty Management to Support Pollution Prevention and Control Decisions. , 0, , .		0
65	preparation and characterization of new nanoparticles compounds based on iron and iodine as prospective materials for medical applications. Arab Journal of Nuclear Sciences and Applications, 2021, , .	0.1	0
66	Hydration process: Kinetics and thermodynamics. , 2021, , 125-160.		0
67	Conditioning of radioactive/nuclear wastes: An overview. Journal of Pharmaceutical Sciences & Emerging Drugs, 2018, 06, .	0.2	0
68	Kinetic Modeling for Environmental Systems. , 2019, , .		0