Aaron Barkatt

List of Publications by Year
in descending order

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40 papers	796 citations	567281 15 h-index	501196 28 g-index
40 all docs	40 docs citations	40 times ranked	621 citing authors

#	Article	IF	Citations
1	Accelerated Test Methods to Determine the Long-Term Behavior of FRP Composite Structures: Environmental Effects. Journal of Reinforced Plastics and Composites, 1995, 14, 559-587.	3.1	192
2	Radiation-induced synthesis of poly(vinylpyrrolidone) nanogel. Polymer, 2011, 52, 5746-5755.	3.8	59
3	Sol-gel synthesis of microcrystalline rare earth orthophosphates. Journal of Materials Research, 1996, 11, 639-649.	2.6	51
4	Mechanisms of Defense Waste Glass Dissolution. Nuclear Technology, 1986, 73, 140-164.	1.2	37
5	Fixation of radioactive waste in high silica glasses. Nature, 1979, 278, 729-731.	27.8	34
6	The chemical durability of tektitesâ€"A laboratory study and correlation with long-term corrosion behavior. Geochimica Et Cosmochimica Acta, 1984, 48, 361-371.	3.9	34
7	A comparative study of sintered and melt-grown recrystallized YBa₂Cu₃O_x. Journal of Materials Research, 1989, 4, 28-32.	2.6	28
8	Leaching of natural and nuclear waste glasses in sea water. Applied Geochemistry, 1989, 4, 593-603.	3.0	28
9	Title is missing!. Oxidation of Metals, 2003, 60, 393-408.	2.1	28
10	Gamma Radiolysis of Aqueous Media and Its Effects on the Leaching Processes of Nuclear Waste Disposal Materials. Nuclear Technology, 1983, 60, 218-227.	1.2	27
11	Correlation Between Composition Effects on Glass Durability and the Structural Role of the Constituent Oxides. Nuclear Technology, 1989, 85, 334-345.	1.2	24
12	Considerations of Hydration-rind Dating of Glass Artefacts: Alteration Morphologies and Experimental Evidence of Hydrogeochemical Soil-zone Pore Water Control. Journal of Archaeological Science, 1999, 26, 1193-1210.	2.4	22
13	Superparamagnetic nanoparticles in tap water. Water Research, 2007, 41, 3005-3011.	11.3	21
14	Composition and particle size of superparamagnetic corrosion products in tap water. Water Research, 2009, 43, 3319-3325.	11.3	21
15	A flow model for the kinetics of dissolution of nuclear waste glasses. Nuclear and Chemical Waste Management, 1982, 3, 13-21.	0.1	18
16	Static and dynamic tests for the chemical durability of nuclear waste glass. Nuclear and Chemical Waste Management, 1981, 2, 151-164.	0.1	16
17	Yttrium enrichment and improved magnetic properties in partially melted Y-Ba-Cu-O materials. Journal of Materials Research, 1990, 5, 721-730.	2.6	16
18	Effects of Î³ radiation on the leaching kinetics of various nuclear waste-form materials. Nature, 1982, 300, 339-341.	27.8	14

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19	Superconducting cuprates prepared by the melt quench process and containing excess Y or additives. Materials Research Bulletin, 1990, 25, 765-777.	5.2	13
20	Uranium Removal from Seawater by Means of Polyamide 6 Fibers Directly Grafted with Diallyl Oxalate through a Single-Step, Solvent-Free Irradiation Process. Industrial & Engineering Chemistry Research, 2016, 55, 4179-4186.	3.7	12
21	The corrosion process of fluoride glass in water and the effects of remelting and of glass composition. Materials Letters, 1984, 3, 43-45.	2.6	10
22	Long-Term Release Rates of Borosilicate Glass Waste Forms. Nuclear Technology, 1986, 73, 199-209.	1.2	9
23	Preparation and properties of highly densified yttrium-barium-copper oxide. Materials Research Bulletin, 1988, 23, 869-879.	5.2	9
24	Oscillations in the dissolution kinetics of silicate glass in tris-buffered aqueous media. Journal of Non-Crystalline Solids, 1993, 155, 141-148.	3.1	9
25	The interaction of solutes with silicate glass and its effect on dissolution rates. Journal of Non-Crystalline Solids, 1994, 167, 158-171.	3.1	9
26	Mechanisms That Control Aqueous Leaching of Nuclear Waste Glass. Nuclear Technology, 1982, 56, 265-270.	1.2	8
27	Chemical treatment of spent carbon liners used in the electrolytic production of aluminum. Journal of Hazardous Materials, 1996, 46, 13-21.	12.4	8
28	Solubilisation of nickel from powders at near-neutral pH and the role of oxide layers. Corrosion Science, 2009, 51, 2043-2054.	6.6	8
29	The Importance of CO2Buffering and of the Total Ionic Balance in Measurements on the Durability of Glasses. Nuclear Technology, 1982, 56, 271-277.	1.2	7
30	Attenuation of glass dissolution in the presence of natural additives. Journal of Non-Crystalline Solids, 1996, 208, 170-180.	3.1	6
31	A highly regenerable phosphate-based adsorbent for Uranium in seawater: Characterization and performance assessment using ²³³U tracer. Separation Science and Technology, 2022, 57, 388-407.	2.5	4
32	Differences in fundamental reaction mechanisms between high and low-LET in recent advancements and applications of ionizing radiation. Radiation Physics and Chemistry, 2014, 105, 39-47.	2.8	3
33	Modeling of Waste Form Performance and System Release. Nuclear Technology, 1986, 73, 179-187.	1.2	2
34	Mathematical Modeling of the Chemical Decontamination of Boiling Water Reactor Components. Nuclear Technology, 1987, 79, 359-370.	1.2	2
35	Characterization of High-Level Nuclear Waste Glass Using Magnetic Measurements. Materials Research Society Symposia Proceedings, 1993, 333, 455.	0.1	2
36	Dissolution Mechanism of Soda-Lime Silicate Glass and of PNL 76-68 in the Presence of Dissolved Mg. Materials Research Society Symposia Proceedings, 1993, 333, 519.	0.1	2

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37	Silane coupling and mordanting as attachment techniques for pyridylazo and thiazolylazo ligands in the synthesis of adsorbents for uranium in seawater. Adsorption Science and Technology, 2018, 36, 1144-1159.	3.2	2
38	Effects of Lead, Mercury, and Reduced Sulfur Species on the Corrosion of Alloy 22 in Concentrated Groundwaters as a Function of pH and Temperature. Materials Research Society Symposia Proceedings, 2002, 713, 1.	0.1	1
39	Formation of hard hematite-cemented solids in steam generators: an analog of lithification of Fe-containing sedimentary rocks. Clays and Clay Minerals, 2007, 55, 59-70.	1.3	0
40	Removal of superparamagnetic corrosion products and contaminants from drinking water using activated carbon. Desalination and Water Treatment, 2014, 52, 3096-3103.	1.0	0