

# R Matthew Asmussen

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

520  
citations

687363

13  
h-index

677142

22  
g-index

39  
all docs

39  
docs citations

39  
times ranked

475  
citing authors

#	ARTICLE	IF	CITATIONS
1	The behavior of iodine in stabilized granular activated carbon and silver mordenite in cementitious waste forms. <i>Journal of Environmental Radioactivity</i> , 2022, 244-245, 106824.	1.7	2
2	The evolution of hydrated lime-based cementitious waste forms during leach testing leading to enhanced technetium retention. <i>Journal of Hazardous Materials</i> , 2022, 430, 128507.	12.4	4
3	Review and experimental comparison of the durability of iodine waste forms in semi-dynamic leach testing. <i>Chemical Engineering Journal Advances</i> , 2022, 11, 100300.	5.2	7
4	A Lithium Feedstock Pathway: Coupled Electrochemical Extraction and Direct Battery Materials Manufacturing. <i>ACS Energy Letters</i> , 2022, 7, 2420-2427.	17.4	9
5	Seeded Stage III glass dissolution behavior of a statistically designed glass matrix. <i>Journal of the American Ceramic Society</i> , 2021, 104, 4145-4162.	3.8	9
6	Polyacrylonitrile Composites of Ag-Al-Si-O Aerogels and Xerogels as Iodine and Iodide Sorbents. <i>ACS Applied Polymer Materials</i> , 2021, 3, 3344-3353.	4.4	11
7	Competitive TcO <sub>4</sub> <sup>2-</sup> , IO <sub>3</sub> <sup>-</sup> , and CrO <sub>4</sub> <sup>2-</sup> Incorporation into Ettringite. <i>Environmental Science &amp; Technology</i> , 2021, 55, 1057-1066.	10.0	11
8	The Influence of Transitional Metal Dopants on Reducing Chlorine Evolution during the Electrolysis of Raw Seawater. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11911.	2.5	3
9	Iodine immobilization by materials through sorption and redox-driven processes: A literature review. <i>Science of the Total Environment</i> , 2020, 716, 132820.	8.0	59
10	Technetium immobilization by materials through sorption and redox-driven processes: A literature review. <i>Science of the Total Environment</i> , 2020, 716, 132849.	8.0	19
11	The sporadic history of rubidium and its role in corrosion of steel related to nuclear material storage. <i>Journal of Nuclear Materials</i> , 2020, 530, 151914.	2.7	3
12	Immobilizing Pertechnetate in Ettringite via Sulfate Substitution. <i>Environmental Science &amp; Technology</i> , 2020, 54, 13610-13618.	10.0	20
13	Investigating the Durability of Iodine Waste Forms in Dilute Conditions. <i>Materials</i> , 2019, 12, 686.	2.9	21
14	Synthesis of Nd <sub>3</sub> BSi <sub>2</sub> O <sub>10</sub> using a LiCl-flux method. <i>Journal of Nuclear Materials</i> , 2019, 515, 370-381.	2.7	4
15	Kinetics of oxyapatite [Ca <sub>2</sub> Nd <sub>8</sub> (SiO <sub>4</sub> ) <sub>6</sub> O <sub>2</sub> ] and powellite [(Ca,Sr,Ba)MoO <sub>4</sub> ] dissolution in glass-ceramic nuclear waste forms in acidic, neutral, and alkaline conditions. <i>Journal of Nuclear Materials</i> , 2019, 515, 227-237.	2.7	17
16	Silver-functionalized silica aerogels and their application in the removal of iodine from aqueous environments. <i>Journal of Hazardous Materials</i> , 2019, 379, 119364.	12.4	64
17	The dissolution behavior of borosilicate glasses in far-from equilibrium conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 226, 132-148.	3.9	47
18	Getters for improved technetium containment in cementitious waste forms. <i>Journal of Hazardous Materials</i> , 2018, 341, 238-247.	12.4	25

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19	Synthesis and characterization of oxyapatite [Ca <sub>2</sub> Nd <sub>8</sub> (SiO <sub>4</sub> ) <sub>6</sub> O <sub>2</sub> ] and mixed-alkaline-earth powellite [(Ca,Sr,Ba)MoO <sub>4</sub> ] for a glass-ceramic waste form. <i>Journal of Nuclear Materials</i> , 2018, 510, 623-634.	2.7	21
20	Characterizing Technetium in Subsurface Sediments for Contaminant Remediation. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 1145-1160.	2.7	8
21	Technetium Stabilization in Low-Solubility Sulfide Phases: A Review. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 532-547.	2.7	36
22	Corrosion Behavior and Microstructure Influence of Glass-Ceramic Nuclear Waste Forms. <i>Corrosion</i> , 2017, 73, 1306-1319.	1.1	11
23	Silver-based getters for <sup>129</sup> I removal from low-activity waste. <i>Radiochimica Acta</i> , 2016, 104, 905-913.	1.2	21
24	The function of Sn(II)-apatite as a Tc immobilizing agent. <i>Journal of Nuclear Materials</i> , 2016, 480, 393-402.	2.7	18
25	Removal of TcO <sub>4</sub> <sup>-</sup> from Representative Nuclear Waste Streams with Layered Potassium Metal Sulfide Materials. <i>Chemistry of Materials</i> , 2016, 28, 3976-3983.	6.7	56
26	Technetium Getters to Improve Cast Stone Performance. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1744, 43-52.	0.1	1