

# Neil C Hyatt

## List of Publications by Year in Descending Order

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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.

239  
papers

3,089  
citations

25  
h-index

45  
g-index

256  
ext. papers

3,724  
ext. citations

3.7  
avg, IF

5.57  
L-index

#	Paper	IF	Citations
239	Ceramic-based stabilization/solidification of radioactive waste <b>2022</b> , 449-468		
238	Spectroscopic evaluation of U-cement mineral interactions: ettringite and hydrotalcite.. <i>Journal of Synchrotron Radiation</i> , <b>2022</b> , 29, 89-102	2.4	0
237	HERMES - a GUI-based software tool for pre-processing of X-ray absorption spectroscopy data from laboratory Rowland circle spectrometers.. <i>Journal of Synchrotron Radiation</i> , <b>2022</b> , 29, 276-279	2.4	
236	Co/PMS based sulfate-radical treatment for effective mineralization of spent ion exchange resin. <i>Chemosphere</i> , <b>2022</b> , 287, 132351	8.4	1
235	Synthesis, Characterization, and Crystal Structure of Dominant Uranium(V) Brannerites in the UTiAlO System. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 18112-18121	5.1	1
234	Fenton and Fenton-like wet oxidation for degradation and destruction of organic radioactive wastes. <i>Npj Materials Degradation</i> , <b>2021</b> , 5,	5.7	2
233	Temperature transformation of blended magnesium potassium phosphate cement binders. <i>Cement and Concrete Research</i> , <b>2021</b> , 141, 106332	10.3	4
232	A preliminary investigation of the molten salt mediated synthesis of Gd <sub>2</sub> TiO <sub>5</sub> stuffed pyrochlore. <i>MRS Advances</i> , <b>2021</b> , 6, 149-153	0.7	1
231	Synthesis and characterisation of HIP Ca <sub>0.80</sub> Ce <sub>0.20</sub> ZrTi <sub>1.60</sub> Cr <sub>0.40</sub> O <sub>7</sub> zirconolite and observations of the ceramic-anister interface. <i>MRS Advances</i> , <b>2021</b> , 6, 112-118	0.7	1
230	Use of WetSEM capsules for convenient multimodal scanning electron microscopy, energy dispersive X-ray analysis, and micro Raman spectroscopy characterisation of technetium oxides. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2021</b> , 328, 1313-1318	1.5	
229	Early age hydration and application of blended magnesium potassium phosphate cements for reduced corrosion of reactive metals. <i>Cement and Concrete Research</i> , <b>2021</b> , 143, 106375	10.3	11
228	An in-situ TEM study into the role of disorder, temperature and ballistic collisions on the accumulation of helium bubbles and voids in glass-ceramic composites. <i>Journal of Nuclear Materials</i> , <b>2021</b> , 548, 152836	3.3	2
227	Characterization of and Structural Insight into Struvite-K, MgKPO <sub>3</sub> ·6H <sub>2</sub> O, an Analogue of Struvite. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 195-205	5.1	6
226	Fenton-like treatment for reduction of simulated carbon-14 spent resin. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 104740	6.8	1
225	Characterisation and disposability assessment of multi-waste stream in-container vitrified products for higher activity radioactive waste. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 401, 123764	12.8	9
224	Synthesis, structure, and characterization of the thorium zirconolite CaZr <sub>1-x</sub> Th <sub>x</sub> Ti <sub>2</sub> O <sub>7</sub> system. <i>Journal of the American Ceramic Society</i> , <b>2021</b> , 104, 2937-2951	3.8	4
223	On the existence of the compound U <sub>3</sub> NbO <sub>7</sub> prepared under air atmosphere. <i>Journal of Rare Earths</i> , <b>2021</b> , 39, 596-599	3.7	1

222	Synthesis of zirconolite-2M ceramics for immobilisation of neptunium. <i>Ceramics International</i> , <b>2021</b> , 47, 1047-1052	5.1	
221	ILW conditioning and performance <b>2021</b> , 548-563		1
220	A high throughput computational investigation of the solid solution mechanisms of actinides and lanthanides in zirconolite.. <i>RSC Advances</i> , <b>2021</b> , 11, 25179-25186	3.7	
219	Nuclear forensic signatures and structural analysis of uranyl oxalate, its products of thermal decomposition and Fe impurity dopant. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2021</b> , 327, 957-973	1.5	3
218	Objective colour analysis from digital images as a nuclear forensic tool. <i>Forensic Science International</i> , <b>2021</b> , 319, 110678	2.6	2
217	Review of zirconolite crystal chemistry and aqueous durability. <i>Advances in Applied Ceramics</i> , <b>2021</b> , 120, 69-83	2.3	5
216	The dissolution of simulant UK Ca/Zn-modified nuclear waste glass: the effect of increased waste loading. <i>MRS Advances</i> , <b>2021</b> , 6, 95-102	0.7	1
215	The thermal decomposition of studtite: analysis of the amorphous phase. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2021</b> , 327, 1335-1347	1.5	4
214	Nuclear forensic signatures of studtite and $\text{UO}_3$ from a matrix of solution processing parameters. <i>Journal of Nuclear Materials</i> , <b>2021</b> , 544, 152713	3.3	3
213	Thermal treatment of Cs-exchanged chabazite by hot isostatic pressing to support decommissioning of Fukushima Daiichi Nuclear Power Plant. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 413, 125250	12.8	8
212	Thermal treatment of nuclear fuel-containing Magnox sludge radioactive waste. <i>Journal of Nuclear Materials</i> , <b>2021</b> , 552, 152965	3.3	3
211	Chemical state mapping of simulant Chernobyl lava-like fuel containing material using micro-focused synchrotron X-ray spectroscopy. <i>Journal of Synchrotron Radiation</i> , <b>2021</b> , 28, 1672-1683	2.4	1
210	Symmetry and the Role of the Anion Sublattice in Aurivillius Oxyfluoride $\text{BiTiOF}$ . <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 14105-14115	5.1	1
209	Synthesis of $\text{Ca}_{1-x}\text{Ce}_x\text{ZrTi}_2\text{-}2\text{xAl}_2\text{xO}_7$ zirconolite ceramics for plutonium disposition. <i>Journal of Nuclear Materials</i> , <b>2021</b> , 556, 153198	3.3	2
208	Actinide Immobilization in Dedicated Wasteforms: An Alternative Pathway for the Long-Term Management of Existing Actinide Stockpiles <b>2021</b> , 650-662		2
207	Low-Temperature Nitridation of FeO by Reaction with $\text{NaNH}_2$ . <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 2553-2562	5.1	1
206	Forty years of durability assessment of nuclear waste glass by standard methods. <i>Npj Materials Degradation</i> , <b>2021</b> , 5,	5.7	2
205	Synthesis and characterisation of high ceramic fraction brannerite ( $\text{UTi}_2\text{O}_6$ ) glass-ceramic composites. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 818, 012018	0.4	3

204	The formation of stoichiometric uranium brannerite (UTi <sub>2</sub> O <sub>6</sub> ) glass-ceramic composites from the component oxides in a one-pot synthesis. <i>Journal of Nuclear Materials</i> , <b>2020</b> , 542, 152516	3.3	5
203	Structure of NaFeSiO <sub>4</sub> , NaFeSi <sub>2</sub> O <sub>6</sub> , and NaFeSi <sub>3</sub> O <sub>8</sub> glasses and glass-ceramics. <i>American Mineralogist</i> , <b>2020</b> , 105, 1375-1384	2.9	2
202	Tuning between Proper and Hybrid-Improper Mechanisms for Polar Behavior in Cs TiNbO Dion-Jacobson Phases. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 8700-8712	9.6	2
201	Hot isostatic pressing: thermal treatment trials of inactive and radioactive simulant UK intermediate level waste. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 818, 012009	0.4	6
200	Laboratory Based X-ray Absorption Spectroscopy of Iron Phosphate Glasses for Radioactive Waste Immobilisation: A Preliminary Investigation.. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 818, 012020	0.4	1
199	Synthesis and characterisation of Ca <sub>1-x</sub> Ce <sub>x</sub> ZrTi <sub>2-2x</sub> Cr <sub>2x</sub> O <sub>7</sub> : Analogue zirconolite wasteform for the immobilisation of stockpiled UK plutonium. <i>Journal of the European Ceramic Society</i> , <b>2020</b> , 40, 5909-5919 <sup>6</sup>		15
198	Short communication: The dissolution of UK simulant vitrified high-level-waste in groundwater solutions. <i>Journal of Nuclear Materials</i> , <b>2020</b> , 538, 152245	3.3	6
197	Hot Isostatic Pressing (HIP): A novel method to prepare Cr-doped UO <sub>2</sub> nuclear fuel. <i>MRS Advances</i> , <b>2020</b> , 5, 45-53	0.7	
196	Synthesis, characterisation and preliminary corrosion behaviour assessment of simulant Fukushima nuclear accident fuel debris. <i>MRS Advances</i> , <b>2020</b> , 5, 65-72	0.7	0
195	Influence of Transition Metal Charge Compensation Species on Phase Assemblage in Zirconolite Ceramics for Pu Immobilisation. <i>MRS Advances</i> , <b>2020</b> , 5, 93-101	0.7	1
194	Multimodal X-ray microanalysis of a UFeO: evidence for the environmental stability of ternary U(v) oxides from depleted uranium munitions testing. <i>Environmental Sciences: Processes and Impacts</i> , <b>2020</b> , 22, 1577-1585	4.3	2
193	Ba <sub>1.2-x</sub> Cs <sub>x</sub> M <sub>1.2-x/2</sub> Ti <sub>6.8+x/2</sub> O <sub>16</sub> (M = Ni, Zn) hollandites for the immobilisation of radiocaesium. <i>MRS Advances</i> , <b>2020</b> , 5, 55-64	0.7	2
192	Insights into the fabrication and structure of plutonium pyrochlores. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 2387-2403	13	10
191	Radiation stability study on cerium loaded iron phosphate glasses by ion irradiation method. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2020</b> , 323, 1381-1386	1.5	1
190	The Effect of A-Site Cation on the Formation of Brannerite (ATi <sub>2</sub> O <sub>6</sub> , A = U, Th, Ce) Ceramic Phases in a Glass-Ceramic Composite System. <i>MRS Advances</i> , <b>2020</b> , 5, 73-81	0.7	5
189	Ce and U speciation in wasteforms for thermal treatment of plutonium bearing wastes, probed by L3 edge XANES. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 818, 012019	0.4	1
188	A systematic investigation of the phase assemblage and microstructure of the zirconolite CaZr <sub>1-x</sub> Ce <sub>x</sub> Ti <sub>2</sub> O <sub>7</sub> system. <i>Journal of Nuclear Materials</i> , <b>2020</b> , 535, 152137	3.3	16
187	Slipcasting of MAX phase tubes for nuclear fuel cladding applications. <i>Nuclear Materials and Energy</i> , <b>2020</b> , 22, 100725	2.1	7

186	The Effect of Temperature on the Stability and Cerium Oxidation State of CeTiO in Inert and Oxidizing Atmospheres. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 17364-17373	5.1	0
185	A feasibility investigation of speciation by Fe K-edge XANES using a laboratory X-ray absorption spectrometer. <i>Journal of Geosciences (Czech Republic)</i> , <b>2020</b> , 27-35	2.4	11
184	Synthesis, characterisation and corrosion behaviour of simulant Chernobyl nuclear meltdown materials. <i>Npj Materials Degradation</i> , <b>2020</b> , 4,	5.7	7
183	A new approach to the immobilisation of technetium and transuranics: Co-disposal in a zirconolite ceramic matrix. <i>Journal of Nuclear Materials</i> , <b>2020</b> , 528, 151885	3.3	6
182	Preliminary investigation of chlorine speciation in zirconolite glass-ceramics for plutonium residues by analysis of Cl K-edge XANES. <i>MRS Advances</i> , <b>2020</b> , 5, 37-43	0.7	
181	Effect of Ti <sup>4+</sup> on the structure of nepheline (NaAlSiO <sub>4</sub> ) glass. <i>Geochimica Et Cosmochimica Acta</i> , <b>2020</b> , 290, 333-351	5.5	4
180	Advanced Gas-cooled Reactor SIMFuel Fabricated by Hot Isostatic Pressing: a Feasibility Investigation. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 818, 012011	0.4	
179	The HADES Facility for High Activity Decommissioning Engineering & Science: part of the UK National Nuclear User Facility. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 818, 012022	0.4	35
178	Investigation of ion irradiation induced damages in iron phosphate glasses: Role of electronic and nuclear losses in glass network modification. <i>Journal of Non-Crystalline Solids: X</i> , <b>2020</b> , 8, 100055	2.5	1
177	Molten salt synthesis of Ce doped zirconolite for the immobilisation of pyroprocessing wastes and separated plutonium. <i>Ceramics International</i> , <b>2020</b> , 46, 29080-29089	5.1	2
176	Nanoscale mechanism of UO formation through uranium reduction by magnetite. <i>Nature Communications</i> , <b>2020</b> , 11, 4001	17.4	23
175	Hot Isostatically Pressed Zirconolite Wasteforms for Actinide Immobilisation. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 818, 012010	0.4	6
174	Rapid synthesis of zirconolite ceramic wasteform by microwave sintering for disposition of plutonium. <i>Journal of Nuclear Materials</i> , <b>2020</b> , 539, 152332	3.3	1
173	Short communication on further elucidating the structure of amorphous U <sub>2</sub> O <sub>7</sub> by extended X-ray absorption spectroscopy and DFT simulations. <i>Journal of Nuclear Materials</i> , <b>2020</b> , 542, 152476	3.3	5
172	Thermal treatment for radioactive waste minimisation. <i>EPJ Nuclear Sciences &amp; Technologies</i> , <b>2020</b> , 6, 25	1	4
171	Synthesis and characterization of iodovanadinite using PdI an iodine source for the immobilisation of radioiodine.. <i>RSC Advances</i> , <b>2020</b> , 10, 25116-25124	3.7	1
170	Solubility, speciation and local environment of chlorine in zirconolite glass-ceramics for the immobilisation of plutonium residues.. <i>RSC Advances</i> , <b>2020</b> , 10, 32497-32510	3.7	3
169	Synthesis and in situ ion irradiation of A-site deficient zirconate perovskite ceramics. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 19454-19466	13	1

168	Crystal and Electronic Structures of ANaIO Periodate Double Perovskites (A = Sr, Ca, Ba): Candidate Wasteforms for I-129 Immobilization. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 18407-18419	5.1	3
167	A Feasibility Investigation of Laboratory Based X-ray Absorption Spectroscopy in Support of Nuclear Waste Management. <i>MRS Advances</i> , <b>2020</b> , 5, 27-35	0.7	8
166	The dissolution of simulant UK Ca/Zn-modified nuclear waste glass: Insight into Stage III behavior. <i>MRS Advances</i> , <b>2020</b> , 5, 103-109	0.7	4
165	A synchrotron X-ray spectroscopy study of titanium co-ordination in explosive melt glass derived from the trinity nuclear test.. <i>RSC Advances</i> , <b>2019</b> , 9, 12921-12927	3.7	0
164	Glass structure and crystallization in boro-alumino-silicate glasses containing rare earth and transition metal cations: a US-UK collaborative program. <i>MRS Advances</i> , <b>2019</b> , 4, 1029-1043	0.7	4
163	Investigation of the role of Mg and Ca in the structure and durability of aluminoborosilicate glass. <i>Journal of Non-Crystalline Solids</i> , <b>2019</b> , 512, 41-52	3.9	8
162	An improved laboratory-based x-ray absorption fine structure and x-ray emission spectrometer for analytical applications in materials chemistry research. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 024106	1.7	51
161	Physical and optical properties of the International Simple Glass. <i>Npj Materials Degradation</i> , <b>2019</b> , 3,	5.7	21
160	Reactive spark plasma sintering of Cs-exchanged chabazite: characterisation and durability assessment for Fukushima Daiichi NPP clean-up. <i>Journal of Nuclear Science and Technology</i> , <b>2019</b> , 56, 891-901	1	12
159	The Formation of Pitted Features on the International Simple Glass during Dynamic Experiments at Alkaline pH. <i>MRS Advances</i> , <b>2019</b> , 4, 993-999	0.7	3
158	Resistance to amorphisation in Ca <sub>1-x</sub> La <sub>2x/3</sub> TiO <sub>3</sub> perovskites: a bulk ion-irradiation study. <i>Acta Materialia</i> , <b>2019</b> , 180, 180-188	8.4	4
157	Investigation of Radiation Damage in Iron Phosphate Glasses by Soft X-Ray Absorption Spectroscopy: A Powerful Tool for Surface Characterization. <i>Springer Proceedings in Physics</i> , <b>2019</b> , 133-139	0.2	
156	A preliminary validation study of PuO <sub>2</sub> incorporation into zirconolite glass-ceramics. <i>MRS Advances</i> , <b>2018</b> , 3, 1065-1071	0.7	9
155	Synthesis and characterisation of brannerite compositions (UCe) M TiO (M = Gd, Ca) for the immobilisation of MOX residues.. <i>RSC Advances</i> , <b>2018</b> , 8, 2092-2099	3.7	10
154	Nonresonant valence-to-core x-ray emission spectroscopy of niobium. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	8
153	Synthesis and characterisation of the hollandite solid solution Ba <sub>1.2-x</sub> Cs <sub>x</sub> Fe <sub>2.4-x</sub> Ti <sub>5.6+x</sub> O <sub>16</sub> for partitioning and conditioning of radiocaesium. <i>Journal of Nuclear Materials</i> , <b>2018</b> , 503, 164-170	3.3	8
152	Transformation of Cs-IONSIV into a ceramic wasteform by hot isostatic pressing. <i>Journal of Nuclear Materials</i> , <b>2018</b> , 498, 33-43	3.3	5
151	Development, characterization and dissolution behavior of calcium-aluminoborate glass wasteforms to immobilize rare-earth oxides. <i>Scientific Reports</i> , <b>2018</b> , 8, 5320	4.9	11

150	Hot-isostatically pressed wasteforms for Magnox sludge immobilisation. <i>Journal of Nuclear Materials</i> , <b>2018</b> , 499, 233-241	3.3	8
149	Reactive spark plasma synthesis of CaZrTi <sub>2</sub> O <sub>7</sub> zirconolite ceramics for plutonium disposition. <i>Journal of Nuclear Materials</i> , <b>2018</b> , 500, 11-14	3.3	18
148	Characterisation of a high pH cement backfill for the geological disposal of nuclear waste: The Nirex Reference Vault Backfill. <i>Applied Geochemistry</i> , <b>2018</b> , 89, 180-189	3.5	22
147	Response to the discussion by Hongyan Ma and Ying Li of the paper 'Characterization of magnesium potassium phosphate cement blended with fly ash and ground granulated blast furnace slag' <i>Cement and Concrete Research</i> , <b>2018</b> , 103, 249-253	10.3	14
146	Corrosion of the International Simple Glass under acidic to hyperalkaline conditions. <i>Npj Materials Degradation</i> , <b>2018</b> , 2,	5.7	22
145	Corrigendum to 'The dissolution rates of simulated UK Magnox THORP blend nuclear waste glass as a function of pH, temperature and waste loading' [Miner. Mag. 79, (2015) 1529-1542]. <i>Mineralogical Magazine</i> , <b>2018</b> , 82, 939-942	1.7	4
144	Impact of rare earth ion size on the phase evolution of MoO <sub>3</sub> -containing aluminoborosilicate glass-ceramics. <i>Journal of Nuclear Materials</i> , <b>2018</b> , 510, 539-550	3.3	17
143	Leaching of Nirex Reference Vault Backfill cement by clay, granite and saline groundwaters. <i>MRS Advances</i> , <b>2018</b> , 3, 1175-1180	0.7	2
142	Immobilisation of Prototype Fast Reactor raffinate in a barium borosilicate glass matrix. <i>Journal of Nuclear Materials</i> , <b>2018</b> , 508, 203-211	3.3	6
141	Molten salt synthesis of MAX phases in the Ti-Al-C system. <i>Journal of the European Ceramic Society</i> , <b>2018</b> , 38, 4585-4589	6	26
140	Structure analysis of vitusite glass-ceramic waste forms using extended X-ray absorption fine structures. <i>Ceramics International</i> , <b>2017</b> , 43, 4687-4691	5.1	3
139	Plutonium management policy in the United Kingdom: The need for a dual track strategy. <i>Energy Policy</i> , <b>2017</b> , 101, 303-309	7.2	29
138	The effect of pre-treatment parameters on the quality of glass-ceramic wasteforms for plutonium immobilisation, consolidated by hot isostatic pressing. <i>Journal of Nuclear Materials</i> , <b>2017</b> , 485, 253-261	3.3	10
137	Combined Quantitative X-ray Diffraction, Scanning Electron Microscopy, and Transmission Electron Microscopy Investigations of Crystal Evolution in CaO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -TiO <sub>2</sub> -ZrO <sub>2</sub> -Nd <sub>2</sub> O <sub>3</sub> -Na <sub>2</sub> O System. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 1079-1087	3.5	12
136	Synthesis of simulant 'lava-like' fuel containing materials (LFCM) from the Chernobyl reactor Unit 4 meltdown. <i>MRS Advances</i> , <b>2017</b> , 2, 609-614	0.7	4
135	Comment on 'Preliminary assessment of modified borosilicate glasses for chromium and ruthenium immobilization' by Farid and Rahman. <i>Materials Chemistry and Physics</i> , <b>2017</b> , 192, 29-32	4.4	
134	Interactions between Simulant Vitrified Nuclear Wastes and high pH solutions: A Natural Analogue Approach. <i>MRS Advances</i> , <b>2017</b> , 2, 669-675	0.7	3
133	Evaluation of novel leaching assessment of nuclear waste glasses. <i>MRS Advances</i> , <b>2017</b> , 2, 635-640	0.7	



132	Ceramic Immobilization Options for Technetium. <i>MRS Advances</i> , <b>2017</b> , 2, 753-758	0.7	2
131	Thermal treatment of plutonium contaminated material (PCM) waste. <i>MRS Advances</i> , <b>2017</b> , 2, 735-740	0.7	1
130	Synthesis and Characterization of Brannerite Compositions for MOX Residue Disposal. <i>MRS Advances</i> , <b>2017</b> , 2, 557-562	0.7	7
129	Investigation of Ce incorporation in zirconolite glass-ceramics for UK plutonium disposition. <i>MRS Advances</i> , <b>2017</b> , 2, 699-704	0.7	9
128	On the existence of AgM9(VO4)6I (M = Ba, Pb). <i>RSC Advances</i> , <b>2017</b> , 7, 49004-49009	3.7	1
127	Iron phosphate glasses: Bulk properties and atomic scale structure. <i>Journal of Nuclear Materials</i> , <b>2017</b> , 494, 342-353	3.3	21
126	Multi-scale investigation of uranium attenuation by arsenic at an abandoned uranium mine, South Terras. <i>Npj Materials Degradation</i> , <b>2017</b> , 1,	5.7	10
125	Investigation of Processing Parameters for the Consolidation of Actinide Glass-Ceramic Wasteforms by Hot Isostatic Pressing. <i>MRS Advances</i> , <b>2016</b> , 1, 4269-4274	0.7	2
124	Simulation of alpha decay of actinides in iron phosphate glasses by ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 371, 424-428	1.2	10
123	A Potential Wasteform for Cs Immobilization: Synthesis, Structure Determination, and Aqueous Durability of CsTiNbO. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 12686-12695	5.1	14
122	Synthesis and Characterization of Brannerite Wasteforms for the Immobilization of Mixed Oxide Fuel Residues. <i>Procedia Chemistry</i> , <b>2016</b> , 21, 371-377		7
121	Role of Microstructure and Surface Defects on the Dissolution Kinetics of CeO <sub>2</sub> , a UO <sub>2</sub> Fuel Analogue. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 10562-71	9.5	46
120	Alteration layer formation of Ca- and Zn-oxide bearing alkali borosilicate glasses for immobilisation of UK high level waste: A vapour hydration study. <i>Journal of Nuclear Materials</i> , <b>2016</b> , 479, 639-646	3.3	18
119	MoO <sub>3</sub> incorporation in magnesium aluminosilicate glasses. <i>Journal of Nuclear Materials</i> , <b>2015</b> , 458, 335-342	3.3	15
118	Characterisation of magnesium potassium phosphate cements blended with fly ash and ground granulated blast furnace slag. <i>Cement and Concrete Research</i> , <b>2015</b> , 74, 78-87	10.3	153
117	Effect of Zn- and Ca-oxides on the structure and chemical durability of simulant alkali borosilicate glasses for immobilisation of UK high level wastes. <i>Journal of Nuclear Materials</i> , <b>2015</b> , 462, 321-328	3.3	31
116	Influence of Lubricants and Attrition Milling Parameters on the Quality of Zirconolite Ceramics, Consolidated by Hot Isostatic Pressing, for Immobilization of Plutonium. <i>International Journal of Applied Ceramic Technology</i> , <b>2015</b> , 12, E92	2	7
115	Solution composition and particle size effects on the dissolution and solubility of a ThO <sub>2</sub> microstructural analogue for UO <sub>2</sub> matrix of nuclear fuel. <i>Radiochimica Acta</i> , <b>2015</b> , 103, 565-576	1.9	10



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