Robert J Finch

List of Publications by Year
in descending order

36 papers	2,257 citations	331538 21 h-index	414303 32 g-index
38 all docs	38 docs citations	38 times ranked	1733 citing authors

#	Article	IF	Citations
1	Reducing Safeguards Accounting and Verification Efforts on Retained Wastes. MRS Advances, 2020, 5, 207-211.	0.5	0
2	Incorporation of cerium and neodymium in uranyl phases. Journal of Nuclear Materials, 2006, 353, 147-157.	1.3	17
3	THE CRYSTAL STRUCTURE OF DEHYDRATED WYARTITE, Ca (CO3) [U5+ (U6+O2)2 O4 (OH)] (H2O)3. Canadian Mineralogist, 2006, 44, 1379-1385.	0.3	34
4	REFINEMENT OF THE CRYSTAL STRUCTURE OF BILLIETITE, Ba [(UO2)6 O4 (OH)6] (H2O)8. Canadian Mineralogist, 2006, 44, 1197-1205.	0.3	35
5	Compressibility and Phase Transition Kinetics of Lanthanide-Doped Zircon. Journal of the American Ceramic Society, 2005, 88, 1345-1348.	1.9	10
6	Gibbs Free Energy of Formation of Zircon from Measurement of Solubility in H2O. Journal of the American Ceramic Society, 2005, 88, 1854-1858.	1.9	24
7	Technetium and Molybdenum in Oxide Spent Nuclear Fuel: Impact on Release Estimates. Materials Research Society Symposia Proceedings, 2004, 824, 109.	0.1	0
8	In situ determination of the compressibility of synthetic pure zircon (ZrSiO₄) and the onset of the zircon-reidite phase transition. American Mineralogist, 2004, 89, 197-203.	0.9	81
9	Re-Evaluating Neptunium in Uranyl Phases Derived from Corroded Spent Fuel. Nuclear Technology, 2004, 148, 174-180.	0.7	11
10	Trace Element Chemistry in Spent Nuclear Fuel Using X-ray Absorption Spectroscopy. Microscopy and Microanalysis, 2004, 10, 824-825.	0.2	0
11	Structure and Chemistry of Zircon and Zircon-Group Minerals. Reviews in Mineralogy and Geochemistry, 2003, 53, 1-25.	2.2	261
12	Precipitation of crystalline neptunium dioxide from near-neutral aqueous solution. Radiochimica Acta, 2003, 91, 87-92.	0.5	24
13	Bent silicon crystal in the Laue geometry to resolve x-ray fluorescence for x-ray absorption spectroscopy. Review of Scientific Instruments, 2003, 74, 4696-4702.	0.6	28
14	CRYSTAL CHEMISTRY OF URANYL MOLYBDATES. V. TOPOLOGICALLY DISTINCT URANYL DIMOLYBDATE SHEETS IN THE STRUCTURES OF Na2[(UO2)(MoO4)2] AND K2[(UO2)(MoO4)2](H2O). Canadian Mineralogist, 2002, 40, 193-200.	0.3	57
15	Precipitation of Crystalline N_pO₂ During Oxidative Corrosion of Neptunium-Bearing Uranium Oxides. Materials Research Society Symposia Proceedings, 2002, 713, 1.	0.1	3
16	Neptunium Incorporation into Uranium(Vi) Compounds formed During Aqueous Corrosion of Neptunium-Bearing Uranium Oxides. Materials Research Society Symposia Proceedings, 2002, 713, 1.	0.1	3
17	Neptunium Substitution into the Structure of Alpha-U3O8. Materials Research Society Symposia Proceedings, 2002, 757, II3.3.1.	0.1	1
18	Crystal chemistry of uranium (V) and plutonium (IV) in a titanate ceramic for disposition of surplus fissile material. Journal of Nuclear Materials, 2002, 304, 56-62.	1.3	34

#	Article	IF	Citations
19	Rare earth elements in synthetic zircon: Part 1. Synthesis, and rare earth element and phosphorus doping. American Mineralogist, 2001, 86, 667-680.	0.9	211
20	Rare-earth elements in synthetic zircon: Part 2. A single-crystal X-ray study of xenotime substitution. American Mineralogist, 2001, 86, 681-689.	0.9	119
21	KNa3(UO2)2(Si4O10)2(H2O)4, a new compound formed during vapor hydration of an actinide-bearing borosilicate waste glass. Journal of Nuclear Materials, 2000, 278, 290-300.	1.3	93
22	Quantification of minor phases in growth kinetics experiments with powder X-ray diffraction. American Mineralogist, 2000, 85, 1217-1222.	0.9	11
23	3. Systematics and Paragenesis of Uranium Minerals. , 1999, , 91-180.		210
24	Oxidative Corrosion of Spent uo₂ Fuel in Vapor and Dripping Groundwater at 90Â°C. Materials Research Society Symposia Proceedings, 1999, 556, 431.	0.1	98
25	Wyartite; crystallographic evidence for the first pentavalent-uranium mineral. American Mineralogist, 1999, 84, 1456-1460.	0.9	117
26	The role of pe, pH, and carbonate on the solubility of UO2 and uraninite under nominally reducing conditions. Geochimica Et Cosmochimica Acta, 1998, 62, 2223-2231.	1.6	110
27	Distinguishing among schoepite, [(UO₂)₈O₂(OH)₁₂](H₂O)₁₂ and related minerals by X-ray powder diffraction. Powder Diffraction, 1997, 12, 230-238.	0.4	19
28	Characterization and dissolution behavior of a becquerelite from Shinkolobwe, Zaire. Geochimica Et Cosmochimica Acta, 1997, 61, 3879-3884.	1.6	24
29	Clarkeite; new chemical and structural data. American Mineralogist, 1997, 82, 607-619.	0.9	40
30	The crystal structure of ianthinite, [U24+(UO2)4O6(OH)4(H2O)4](H2O)5: a possible phase for Pu4+ incorporation during the oxidation of spent nuclear fuel. Journal of Nuclear Materials, 1997, 249, 199-206.	1.3	84
31	Thermodynamic Stabilities of U(VI) Minerals: Estimated and Observed Relationships. Materials Research Society Symposia Proceedings, 1996, 465, 1185.	0.1	22
32	Description and classification of uranium oxide hydrate sheet anion topologies. Journal of Materials Research, 1996, 11, 3048-3056.	1.2	49
33	Formation, Oxidation and Alteration of Ianthinite. Materials Research Society Symposia Proceedings, 1993, 333, 625.	0.1	15
34	Weathering of Natural Uranyl Oxide Hydrates: Schoepite Polytypes and Dehydration Effects. Radiochimica Acta, 1992, 58-59, 433-444.	0.5	44
35	The Alteration of Uraninite to Clarkeite. Materials Research Society Symposia Proceedings, 1992, 294, 513.	0.1	1
36	The corrosion of uraninite under oxidizing conditions. Journal of Nuclear Materials, 1992, 190, 133-156.	1.3	367