

Robert J Finch

List of Publications by Year in descending order

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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 | The corrosion of uraninite under oxidizing conditions. <i>Journal of Nuclear Materials</i> , 1992, 190, 133-156. | 1.3 | 367 |
| 2 | Structure and Chemistry of Zircon and Zircon-Group Minerals. <i>Reviews in Mineralogy and Geochemistry</i> , 2003, 53, 1-25. | 2.2 | 261 |
| 3 | Rare earth elements in synthetic zircon: Part 1. Synthesis, and rare earth element and phosphorus doping. <i>American Mineralogist</i> , 2001, 86, 667-680. | 0.9 | 211 |
| 4 | 3. Systematics and Paragenesis of Uranium Minerals. , 1999, , 91-180. | | 210 |
| 5 | Rare-earth elements in synthetic zircon: Part 2. A single-crystal X-ray study of xenotime substitution. <i>American Mineralogist</i> , 2001, 86, 681-689. | 0.9 | 119 |
| 6 | Wyartite; crystallographic evidence for the first pentavalent-uranium mineral. <i>American Mineralogist</i> , 1999, 84, 1456-1460. | 0.9 | 117 |
| 7 | The role of pe, pH, and carbonate on the solubility of UO ₂ and uraninite under nominally reducing conditions. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 2223-2231. | 1.6 | 110 |
| 8 | Oxidative Corrosion of Spent UO ₂ Fuel in Vapor and Dripping Groundwater at 90°C. <i>Materials Research Society Symposia Proceedings</i> , 1999, 556, 431. | 0.1 | 98 |
| 9 | KNa ₃ (UO ₂) ₂ (Si ₄ O ₁₀) ₂ (H ₂ O) ₄ , a new compound formed during vapor hydration of an actinide-bearing borosilicate waste glass. <i>Journal of Nuclear Materials</i> , 2000, 278, 290-300. | 1.3 | 93 |
| 10 | The crystal structure of ianthinite, [U ²⁴⁺ (UO ₂) ₄ O ₆ (OH) ₄ (H ₂ O) ₄](H ₂ O) ₅ : a possible phase for Pu ⁴⁺ incorporation during the oxidation of spent nuclear fuel. <i>Journal of Nuclear Materials</i> , 1997, 249, 199-206. | 1.3 | 84 |
| 11 | In situ determination of the compressibility of synthetic pure zircon (ZrSiO ₄) and the onset of the zircon-reidite phase transition. <i>American Mineralogist</i> , 2004, 89, 197-203. | 0.9 | 81 |
| 12 | CRYSTAL CHEMISTRY OF URANYL MOLYBDATES. V. TOPOLOGICALLY DISTINCT URANYL DIMOLYBDATE SHEETS IN THE STRUCTURES OF Na ₂ [(UO ₂)(MoO ₄) ₂] AND K ₂ [(UO ₂)(MoO ₄) ₂](H ₂ O). <i>Canadian Mineralogist</i> , 2002, 40, 193-200. | 0.3 | 57 |
| 13 | Description and classification of uranium oxide hydrate sheet anion topologies. <i>Journal of Materials Research</i> , 1996, 11, 3048-3056. | 1.2 | 49 |
| 14 | Weathering of Natural Uranyl Oxide Hydrates: Schoepite Polytypes and Dehydration Effects. <i>Radiochimica Acta</i> , 1992, 58-59, 433-444. | 0.5 | 44 |
| 15 | Clarkeite; new chemical and structural data. <i>American Mineralogist</i> , 1997, 82, 607-619. | 0.9 | 40 |
| 16 | REFINEMENT OF THE CRYSTAL STRUCTURE OF BILLIETITE, Ba [(UO ₂) ₆ O ₄ (OH) ₆] (H ₂ O) ₈ . <i>Canadian Mineralogist</i> , 2006, 44, 1197-1205. | 0.3 | 35 |
| 17 | Crystal chemistry of uranium (V) and plutonium (IV) in a titanate ceramic for disposition of surplus fissile material. <i>Journal of Nuclear Materials</i> , 2002, 304, 56-62. | 1.3 | 34 |
| 18 | THE CRYSTAL STRUCTURE OF DEHYDRATED WYARTITE, Ca (CO ₃) [U ⁵⁺ (U ⁶⁺ O ₂) ₂ O ₄ (OH)] (H ₂ O) ₃ . <i>Canadian Mineralogist</i> , 2006, 44, 1379-1385. | 0.3 | 34 |

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|----|---|-----|-----------|
| 19 | Bent silicon crystal in the Laue geometry to resolve x-ray fluorescence for x-ray absorption spectroscopy. <i>Review of Scientific Instruments</i> , 2003, 74, 4696-4702. | 0.6 | 28 |
| 20 | Characterization and dissolution behavior of a becquerelite from Shinkolobwe, Zaire. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 3879-3884. | 1.6 | 24 |
| 21 | Precipitation of crystalline neptunium dioxide from near-neutral aqueous solution. <i>Radiochimica Acta</i> , 2003, 91, 87-92. | 0.5 | 24 |
| 22 | Gibbs Free Energy of Formation of Zircon from Measurement of Solubility in H ₂ O. <i>Journal of the American Ceramic Society</i> , 2005, 88, 1854-1858. | 1.9 | 24 |
| 23 | Thermodynamic Stabilities of U(VI) Minerals: Estimated and Observed Relationships. <i>Materials Research Society Symposia Proceedings</i> , 1996, 465, 1185. | 0.1 | 22 |
| 24 | Distinguishing among schoepite, [(UO ₂) ₈ O ₂ (OH) ₁₂](H ₂ O) ₁₂ and related minerals by X-ray powder diffraction. <i>Powder Diffraction</i> , 1997, 12, 230-238. | 0.1 | 19 |
| 25 | Incorporation of cerium and neodymium in uranyl phases. <i>Journal of Nuclear Materials</i> , 2006, 353, 147-157. | 1.3 | 17 |
| 26 | Formation, Oxidation and Alteration of lanthanite. <i>Materials Research Society Symposia Proceedings</i> , 1993, 333, 625. | 0.1 | 15 |
| 27 | Quantification of minor phases in growth kinetics experiments with powder X-ray diffraction. <i>American Mineralogist</i> , 2000, 85, 1217-1222. | 0.9 | 11 |
| 28 | Re-Evaluating Neptunium in Uranyl Phases Derived from Corroded Spent Fuel. <i>Nuclear Technology</i> , 2004, 148, 174-180. | 0.7 | 11 |
| 29 | Compressibility and Phase Transition Kinetics of Lanthanide-Doped Zircon. <i>Journal of the American Ceramic Society</i> , 2005, 88, 1345-1348. | 1.9 | 10 |
| 30 | Precipitation of Crystalline Np _p O ₂ During Oxidative Corrosion of Neptunium-Bearing Uranium Oxides. <i>Materials Research Society Symposia Proceedings</i> , 2002, 713, 1. | 0.1 | 3 |
| 31 | Neptunium Incorporation into Uranium(VI) Compounds formed During Aqueous Corrosion of Neptunium-Bearing Uranium Oxides. <i>Materials Research Society Symposia Proceedings</i> , 2002, 713, 1. | 0.1 | 3 |
| 32 | The Alteration of Uraninite to Clarkeite. <i>Materials Research Society Symposia Proceedings</i> , 1992, 294, 513. | 0.1 | 1 |
| 33 | Neptunium Substitution into the Structure of Alpha-U ₃ O ₈ . <i>Materials Research Society Symposia Proceedings</i> , 2002, 757, II3.3.1. | 0.1 | 1 |
| 34 | Technetium and Molybdenum in Oxide Spent Nuclear Fuel: Impact on Release Estimates. <i>Materials Research Society Symposia Proceedings</i> , 2004, 824, 109. | 0.1 | 0 |
| 35 | Trace Element Chemistry in Spent Nuclear Fuel Using X-ray Absorption Spectroscopy. <i>Microscopy and Microanalysis</i> , 2004, 10, 824-825. | 0.2 | 0 |
| 36 | Reducing Safeguards Accounting and Verification Efforts on Retained Wastes. <i>MRS Advances</i> , 2020, 5, 207-211. | 0.5 | 0 |