

# Rodney C Ewing

## List of Articles by Year in descending order

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31781

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25598

citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | The local-structure and radiation resistance of Ln <sub>3</sub> TaO <sub>7</sub> (Ln = Y, Sm, Gd). Journal of Alloys and Compounds, 2025, 1010, 177708.  | 6.0  | 4         |
| 2  | Atomic-scale structure of ZrO <sub>2</sub> : Formation of metastable polymorphs. Science Advances, 2025, 11, .   | 10.9 | 18        |
| 3  | Final thoughts: The fragile connection of safety and science in the geological disposal of radioactive waste. Bulletin of the Atomic Scientists, 2025, 81, 48-52.  | 1.0  | 2         |
| 4  | Crystal chemistry and thermodynamic properties of zircon structure-type materials. American Mineralogist, 2024, 109, 225-242.  | 1.8  | 11        |
| 5  | Environmental impacts of underground nuclear weapons testing. Bulletin of the Atomic Scientists, 2024, 80, 102-111.  | 1.0  | 1         |
| 6  | Pyrochlore-type lanthanide titanates and zirconates: Synthesis, structural peculiarities, and properties. Applied Physics Reviews, 2024, 11, .   | 10.4 | 36        |
| 7  | Improving the creation of SiV centers in diamond via sub-1/4s pulsed annealing treatment. Nature Communications, 2024, 15, .   | 13.7 | 14        |
| 8  | Critical metal resources in Democratic People's Republic of Korea. International Geology Review, 2023, 65, 2717-2737.  | 2.0  | 2         |
| 9  | Effect of Dipole Interactions on Blocking Temperature and Relaxation Dynamics of Superparamagnetic Iron-Oxide (Fe <sub>3</sub> O <sub>4</sub> ) Nanoparticle Systems. Materials, 2023, 16, 496.                              | 2.9  | 39        |
| 10 | Phase transformation and radiation resistance of B-site high entropy pyrochlores. Scripta Materialia, 2023, 229, 115367.   | 5.4  | 21        |
| 11 | Probing structural disorder in zircon by electron backscatter diffraction (EBSD): Radiation damage and Kikuchi pattern. Journal of Nuclear Materials, 2023, 581, 154440.   | 2.9  | 1         |
| 12 | Systematic study of short- and long-range correlations in RE <sub>3</sub> TaO <sub>7</sub> weberite-type compounds by neutron total scattering and X-ray diffraction. Journal of Materials Chemistry A, 2023, 11, 8886-8903. | 9.3  | 11        |
| 13 | Unexpectedly narrower track diameter at site of fission event. Earth and Planetary Science Letters, 2023, 616, 118217.   | 4.8  | 1         |
| 14 | Reimagining US rare earth production: Domestic failures and the decline of US rare earth production dominance – Lessons learned and recommendations. Resources Policy, 2023, 85, 104022.                                     | 9.5  | 31        |
| 15 | US Legal and Regulatory Framework for Nuclear Waste from Present and Future Reactors and Their Fuel Cycles. Annual Review of Environment and Resources, 2023, 48, 713-736.   | 12.3 | 8         |
| 16 | Machine learning improves satellite imagery analysis of North Korean nuclear activity. Bulletin of the Atomic Scientists, 2022, 78, 26-37.   | 1.0  | 1         |
| 17 | Volatilization of B <sub>4</sub> C control rods in Fukushima Daiichi nuclear reactors during meltdown: B's Li isotopic signatures in cesium-rich microparticles. Journal of Hazardous Materials, 2022, 428, 128214.          | 12.5 | 19        |
| 18 | Phase stability of pre-irradiated CeO <sub>2</sub> with swift heavy ions under high pressure up to 45 GPa. Journal of the American Ceramic Society, 2022, 105, 2889-2902.  | 3.7  | 8         |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | Recent advances in the global rare-earth supply chain. <i>MRS Bulletin</i> , 2022, 47, 244-249.  | 4.1  | 33        |
| 20 | Nuclear waste from small modular reactors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .   | 7.5  | 96        |
| 21 | Thermal annealing of fission and ion tracks in epidote. <i>Physics and Chemistry of Minerals</i> , 2022, 49, .   | 1.5  | 4         |
| 22 | Mining for the Bomb: The Vulnerability of Buried Plutonium to Clandestine Recovery. <i>Science and Global Security</i> , 2022, 30, 131-162.  | 0.5  | 1         |
| 23 | Projecting Risk into the Future: Failure of a Geologic Repository and the Sinking of the Titanic. <i>Materials Research Society Symposia Proceedings</i> , 2021, 1665, 15-21.              | 0.1  | 0         |
| 24 | The Role of Water and Hydroxyl Groups in the Structures of Stetindite and Coffinite, $MSiO_4$ (M = Ce,) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf</i>   | 4.8  | 24        |
| 25 | Alpha-decay induced shortening of fission tracks simulated by in situ ion irradiation. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 299, 1-14.   | 4.9  | 11        |
| 26 | New highly radioactive particles derived from Fukushima Daiichi Reactor Unit 1: Properties and environmental impacts. <i>Science of the Total Environment</i> , 2021, 773, 145639.         | 8.4  | 22        |
| 27 | Socio-technical multi-criteria evaluation of long-term spent nuclear fuel management strategies: A framework and method. <i>Science of the Total Environment</i> , 2021, 777, 146086.      | 8.4  | 9         |
| 28 | Assessing Uranium Ore Processing Activities Using Satellite Imagery at Pyongsan in the Democratic People's Republic of Korea. <i>Science and Global Security</i> , 2021, 29, 111-144.      | 0.5  | 2         |
| 29 | Fracture toughness of radiation-damaged zircon studied by nanoindentation pillar-splitting. <i>Applied Physics Letters</i> , 2021, 119, .  | 3.0  | 8         |
| 30 | Abundance and distribution of radioactive cesium-rich microparticles released from the Fukushima Daiichi Nuclear Power Plant into the environment. <i>Chemosphere</i> , 2020, 241, 125019. | 8.2  | 54        |
| 31 | Disorder in $Ho_2Ti_2\hat{x}Zr_xO_7$ : pyrochlore to defect fluorite solid solution series. <i>RSC Advances</i> , 2020, 10, 34632-34650.   | 4.4  | 46        |
| 32 | Local order of orthorhombic weberite-type $Y_3TaO_7$ as determined by neutron total scattering and density functional theory calculations. <i>Acta Materialia</i> , 2020, 196, 704-709.    | 8.7  | 28        |
| 33 | Geologic Analysis of the Democratic People's Republic of Korea's Uranium Resources and Mines. <i>Science and Global Security</i> , 2020, 28, 80-109.                                       | 0.5  | 1         |
| 34 | Predicting short-range order and correlated phenomena in disordered crystalline materials. <i>Science Advances</i> , 2020, 6, .  | 10.9 | 49        |
| 35 | Thermodynamics of $CeSiO_4$ : Implications for Actinide Orthosilicates. <i>Inorganic Chemistry</i> , 2020, 59, 13174-13183.  | 4.6  | 29        |
| 36 | Coffinite formation from $UO_2+x$ . <i>Scientific Reports</i> , 2020, 10, .  | 3.4  | 18        |

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|----|--|------|-----------|
| 37 | Radiation effects in Mn+1AXn phases. Applied Physics Reviews, 2020, 7, .<br>Structural evolution of Lu <sub>2</sub> Al <sub>x</sub> Ce <sub>x</sub> Ti <sub>2</sub>  | 10.4 | 56        |
| 38 |  | 3.7  | 8         |
| 39 | Acceptance of Distinguished Public Service Award of the Mineralogical Society of America for 2019. American Mineralogist, 2020, 105, 774-775.  | 1.8  | 0         |
| 40 | Integration of the Back-end of the Nuclear Fuel Cycle: An Overview. MRS Advances, 2020, 5, 253-264.  | 0.9  | 2         |
| 41 | Particulate plutonium released from the Fukushima Daiichi meltdowns. Science of the Total Environment, 2020, 743, 140539.  | 8.4  | 37        |
| 42 | Nanocrystallites via Direct Melt Spinning of Fe <sub>77</sub> Ni <sub>5.5</sub> Co <sub>5.5</sub> Zr <sub>7</sub> B <sub>4</sub> Cu for Enhanced Magnetic Softness. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, .                         | 1.5  | 2         |
| 43 | Facile diamond synthesis from lower diamondoids. Science Advances, 2020, 6, .  | 10.9 | 43        |
| 44 | Annealing of ion tracks in apatite under pressure characterized in situ by small angle x-ray scattering. Scientific Reports, 2020, 10, .   | 3.4  | 4         |
| 45 | Processing of Soft Magnetic Fine Powders Directly From As-Spun Partial Crystalline Fe <sub>77</sub> Ni <sub>5.5</sub> Co <sub>5.5</sub> Zr <sub>7</sub> B <sub>4</sub> Cu Ribbon via Ball Mill Without Devitrification. IEEE Transactions on Magnetics, 2020, 56, 1-9. | 1.4  | 1         |
| 46 | Effects of irradiation temperature on the response of CeO <sub>2</sub> , ThO <sub>2</sub> , and UO <sub>2</sub> to highly ionizing radiation. Journal of Nuclear Materials, 2019, 525, 83-91.  | 2.9  | 21        |
| 47 | Mechanical and structural properties of radiation-damaged allanite-(Ce) and the effects of thermal annealing. Physics and Chemistry of Minerals, 2019, 46, 921-933.  | 1.5  | 15        |
| 48 | Radiation-damage in multi-layered zircon: Mechanical properties. Applied Physics Letters, 2019, 115, .   | 3.0  | 8         |
| 49 | Probabilistic Performance Assessment vs. the Safety Case Approach. MRS Advances, 2019, 4, 987-992.   | 0.9  | 0         |
| 50 | Dissolution of radioactive, cesium-rich microparticles released from the Fukushima Daiichi Nuclear Power Plant in simulated lung fluid, pure-water, and seawater. Chemosphere, 2019, 233, 633-644.   | 8.2  | 38        |
| 51 | Anomalous behavior of nonequilibrium excitations in UO <sub>2</sub> . Physical Review B, 2019, 99, .   | 3.4  | 0         |
| 52 | Phase transformations of Al-bearing high-entropy alloys Al <sub>x</sub> CoCrFeNi (x=0, 0.1, 0.3, 0.75, 1.5) at high pressure. Applied Physics Letters, 2019, 114, .  | 3.0  | 19        |
| 53 | Disorder in Mn+1AXn phases at the atomic scale. Nature Communications, 2019, 10, .   | 13.7 | 63        |
| 54 | Initial stages of ion beam-induced phase transformations in Gd <sub>2</sub> O <sub>3</sub> and Lu <sub>2</sub> O <sub>3</sub> . Applied Physics Letters, 2018, 112, .  | 3.0  | 2         |

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|----|--|------|-----------|
| 55 | Measurement of UO <sub>2</sub> surface oxidation using grazing-incidence x-ray diffraction: Implications for nuclear forensics. <i>Journal of Nuclear Materials</i> , 2018, 502, 68-75.                                | 2.9  | 12        |
| 56 | Radiation-induced disorder in compressed lanthanide zirconates. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 6187-6197.  | 2.7  | 15        |
| 57 | Uranium Dioxides and Debris Fragments Released to the Environment with Cesium-Rich Microparticles from the Fukushima Daiichi Nuclear Power Plant. <i>Environmental Science &amp; Technology</i> , 2018, 52, 2586-2594. | 11.1 | 76        |
| 58 | Phase transformation pathways of ultrafast-laser-irradiated Ln <sub>2</sub> O <sub>3</sub> (Ln=Er, Lu). <i>Physical Review B</i> , 2018, 97, .   | 3.4  | 4         |
| 59 | A <sub>2</sub> TiO <sub>5</sub> (A = Dy, Gd, Er, Yb) at High Pressure. <i>Inorganic Chemistry</i> , 2018, 57, 2269-2277.   | 4.6  | 11        |
| 60 | Review of recent experimental results on the behavior of actinide-bearing oxides and related materials in extreme environments. <i>Progress in Nuclear Energy</i> , 2018, 104, 342-358.                                | 3.0  | 16        |
| 61 | Similar local order in disordered fluorite and aperiodic pyrochlore structures. <i>Acta Materialia</i> , 2018, 144, 60-67.   | 8.7  | 78        |
| 62 | Swift-heavy ion irradiation response and annealing behavior of A <sub>2</sub> TiO <sub>5</sub> (A = Nd, Gd, and Yb). <i>Journal of Solid State Chemistry</i> , 2018, 258, 108-116.                                     | 3.3  | 19        |
| 63 | Role of the X and n factors in ion-irradiation induced phase transformations of Mn <sub>1-1X</sub> phases. <i>Acta Materialia</i> , 2018, 144, 432-446.  | 8.7  | 30        |
| 64 | The thermal stability and consolidation of perovskite variant Cs <sub>2</sub> SnCl <sub>6</sub> using spark plasma sintering. <i>Journal of the American Ceramic Society</i> , 2018, 101, 2060-2065.                   | 3.7  | 20        |
| 65 | Mission Impossible? Socio-Technical Integration of Nuclear Waste Geological Disposal Systems. <i>Sustainability</i> , 2018, 10, 4390.  | 2.9  | 14        |
| 66 | A Critical Review of Existing Criteria for the Prediction of Pyrochlore Formation and Stability. <i>Inorganic Chemistry</i> , 2018, 57, 12093-12105.   | 4.6  | 116       |
| 67 | Grain size effects on irradiated CeO <sub>2</sub> , ThO <sub>2</sub> , and UO <sub>2</sub> . <i>Acta Materialia</i> , 2018, 160, 47-56.  | 8.7  | 62        |
| 68 | Novel Method of Quantifying Radioactive Cesium-Rich Microparticles (CsMPs) in the Environment from the Fukushima Daiichi Nuclear Power Plant. <i>Environmental Science &amp; Technology</i> , 2018, 52, 6390-6398.     | 11.1 | 64        |
| 69 | Radiation-damage-induced transitions in zircon: Percolation theory applied to hardness and elastic moduli as a function of density. <i>Applied Physics Letters</i> , 2018, 112, .                                      | 3.0  | 12        |
| 70 | Evolution and Structure of the Scientific Basis for Nuclear Waste Management. <i>MRS Advances</i> , 2018, 4, 959-964.  | 0.9  | 7         |
| 71 | Photothermal effect on Fe <sub>3</sub> O <sub>4</sub> nanoparticles irradiated by white-light for energy-efficient window applications. <i>Solar Energy Materials and Solar Cells</i> , 2017, 161, 247-254.            | 6.1  | 95        |
| 72 | Ion-irradiation-induced structural evolution in Ti <sub>4</sub> AlN <sub>3</sub> . <i>Scripta Materialia</i> , 2017, 133, 19-23.   | 5.4  | 13        |

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|----|---|------|-----------|
| 73 | Caesium-rich micro-particles: A window into the meltdown events at the Fukushima Daiichi Nuclear Power Plant. Scientific Reports, 2017, 7, .  | 3.4  | 105       |
| 74 | Structure and bulk modulus of Ln-doped UO <sub>2</sub> (Ln= La, Nd) at high pressure. Journal of Nuclear Materials, 2017, 490, 28-33.   | 2.9  | 13        |
| 75 | Amorphization of Ta <sub>2</sub> O <sub>5</sub> under swift heavy ion irradiation. Nuclear Instruments & Methods in Physics Research B, 2017, 407, 25-33.   | 1.2  | 30        |
| 76 | A rescue package for imperilled collection. Nature, 2017, 546, 210-210.   | 38.0 | 0         |
| 77 | High pressure synthesis of a hexagonal close-packed phase of the high-entropy alloy CrMnFeCoNi. Nature Communications, 2017, 8, .   | 13.7 | 306       |
| 78 | Thermal defect annealing of swift heavy ion irradiated ThO <sub>2</sub> . Nuclear Instruments & Methods in Physics Research B, 2017, 405, 15-21.  | 1.2  | 8         |
| 79 | Pressure-induced structural modifications of rare-earth hafnate pyrochlore. Journal of Physics Condensed Matter, 2017, 29, 255401.  | 2.3  | 42        |
| 80 | Defect accumulation in swift heavy ion-irradiated CeO <sub>2</sub> and ThO <sub>2</sub> . Journal of Materials Chemistry A, 2017, 5, 12193-12201.   | 9.3  | 44        |
| 81 | High-pressure behavior of A <sub>2</sub> B <sub>2</sub> O <sub>7</sub> pyrochlore (A=Eu, Dy; B=Ti, Zr). Journal of Applied Physics, 2017, 121, .  | 2.0  | 51        |
| 82 | In situ TEM observation of alpha-particle induced annealing of radiation damage in Durango apatite. Scientific Reports, 2017, 7, .  | 3.4  | 20        |
| 83 | Phase transformation and chemical decomposition of nanocrystalline SnO <sub>2</sub> under heavy ion irradiation. Nuclear Instruments & Methods in Physics Research B, 2017, 407, 10-19.               | 1.2  | 4         |
| 84 | Isotopic signature and nano-texture of cesium-rich micro-particles: Release of uranium and fission products from the Fukushima Daiichi Nuclear Power Plant. Scientific Reports, 2017, 7, .            | 3.4  | 75        |
| 85 | Uranyl peroxide nanoclusters at high-pressure. Journal of Materials Research, 2017, 32, 3679-3688.  | 2.5  | 8         |
| 86 | Inversion in Mg <sub>1-x</sub> Ni <sub>x</sub> Al <sub>2</sub> O <sub>4</sub> Spinel: New Insight into Local Structure. Journal of the American Chemical Society, 2017, 139, 10395-10402.             | 15.0 | 67        |
| 87 | Strain engineered pyrochlore at high pressure. Scientific Reports, 2017, 7, .   | 3.4  | 23        |
| 88 | Thermal annealing of natural, radiation-damaged pyrochlore. Zeitschrift Fur Kristallographie - Crystalline Materials, 2017, 232, 25-38.   | 2.5  | 19        |
| 89 | Biomarkerless targeting and photothermal cancer cell killing by surface-electrically-charged superparamagnetic Fe <sub>3</sub> O <sub>4</sub> composite nanoparticles. Nanoscale, 2017, 9, 1457-1465. | 5.0  | 39        |
| 90 | Lanthanide stannate pyrochlores (Ln <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> ; Ln=La, Nd, Gd, Er) at high pressure. Journal of Physics, Condensed Matter, 2017, 29, 504005.                        | 2.3  | 16        |

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|-----|--|------|-----------|
| 91  | Radiation-induced effects on the mechanical properties of natural ZrSiO <sub>4</sub> : double cascade-overlap damage accumulation. <i>Physics and Chemistry of Minerals</i> , 2017, 45, 435-442.                   | 1.5  | 3         |
| 92  | Targeting Negative Surface Charges of Cancer Cells by Multifunctional Nanoprobles. <i>Theranostics</i> , 2016, 6, 1887-1898.   | 11.3 | 368       |
| 93  | Anisotropic mechanical properties of zircon and the effect of radiation damage. <i>Physics and Chemistry of Minerals</i> , 2016, 43, 627-638.  | 1.5  | 16        |
| 94  | Geological Disposal of Nuclear Waste: a Primer. <i>Elements</i> , 2016, 12, 233-237.   | 1.7  | 116       |
| 95  | Structural response of titanate pyrochlores to swift heavy ion irradiation. <i>Acta Materialia</i> , 2016, 117, 207-215.   | 8.7  | 82        |
| 96  | Role of composition, bond covalency, and short-range order in the disordering of stannate pyrochlores by swift heavy ion irradiation. <i>Physical Review B</i> , 2016, 94, .                                       | 3.4  | 66        |
| 97  | Energetics of a Uranothorite (Th <sub>1-x</sub> U <sub>x</sub> SiO <sub>4</sub> ) Solid Solution. <i>Chemistry of Materials</i> , 2016, 28, 7117-7124.   | 6.7  | 38        |
| 98  | In-vitro depth-dependent hyperthermia of human mammary gland adenocarcinoma. <i>Materials Science and Engineering C</i> , 2016, 69, 12-16.   | 5.8  | 9         |
| 99  | Acceptance of the 2015 Roebling Medal of the Mineralogical Society of America. <i>American Mineralogist</i> , 2016, 101, 1002-1004.  | 1.8  | 0         |
| 100 | Phase transition and water incorporation into Eu <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> pyrochlore at high pressure. <i>Chemical Physics Letters</i> , 2016, 650, 138-143.                                    | 2.7  | 7         |
| 101 | Stability of fluorite-type La <sub>2</sub> Ce <sub>2</sub> O <sub>7</sub> under extreme conditions. <i>Journal of Alloys and Compounds</i> , 2016, 674, 168-173.   | 6.0  | 66        |
| 102 | Radioactive Cs in the estuary sediments near Fukushima Daiichi Nuclear Power Plant. <i>Science of the Total Environment</i> , 2016, 551-552, 155-162.  | 8.4  | 41        |
| 103 | Mechanical properties of natural radiation-damaged titanite and temperature-induced structural reorganization: A nanoindentation and Raman spectroscopic study. <i>American Mineralogist</i> , 2016, 101, 399-406. | 1.8  | 11        |
| 104 | First experimental determination of the solubility constant of coffinite. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 181, 36-53.   | 4.9  | 38        |
| 105 | Probing disorder in isometric pyrochlore and related complex oxides. <i>Nature Materials</i> , 2016, 15, 507-511.  | 33.4 | 214       |
| 106 | Anisotropic expansion and amorphization of Ga <sub>2</sub> O <sub>3</sub> irradiated with 946 MeV Au ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2016, 374, 40-44.                      | 1.2  | 21        |
| 107 | Swift Heavy Ion-Induced Decomposition and Phase Transformation in Nanocrystalline SnO <sub>2</sub> . <i>Materials Research Society Symposia Proceedings</i> , 2015, 1715, .  | 0.1  | 2         |
| 108 | C <sub>60</sub> and U ion irradiation of Gd <sub>2</sub> Ti <sub>x</sub> Zr <sub>2-<math>\tilde{x}</math></sub> O <sub>7</sub> pyrochlore. <i>Journal of Materials Research</i> , 2015, 30, 2456-2466.             | 2.5  | 11        |

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|-----|--|------|-----------|
| 109 | Characterization of ion-induced radiation effects in nuclear materials using synchrotron x-ray techniques. <i>Journal of Materials Research</i> , 2015, 30, 1366-1379.   | 2.5  | 44        |
| 110 | Phase transformations in $\text{Ln}_2\text{O}_3$ materials irradiated with swift heavy ions. <i>Physical Review B</i> , 2015, 92, .  | 3.4  | 51        |
| 111 | Radiation Stability of Spark-Plasma-Sintered Lead Vanadate Iodoapatite. <i>Journal of the American Ceramic Society</i> , 2015, 98, 3361-3366.  | 3.7  | 18        |
| 112 | Radioactive Cs in the Severely Contaminated Soils Near the Fukushima Daiichi Nuclear Power Plant. <i>Frontiers in Energy Research</i> , 2015, 3, .   | 2.0  | 47        |
| 113 | Thermodynamics of formation of coffinite, $\text{USiO}_4$ . Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6551-6555.   | 7.5  | 82        |
| 114 | Synchrotron x-ray diffraction analysis of gadolinium and lanthanum titanate oxides irradiated by xenon and tantalum swift heavy ions. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1743, .                                 | 0.1  | 2         |
| 115 | Redox response of actinide materials to highly ionizing radiation. <i>Nature Communications</i> , 2015, 6, .   | 13.7 | 84        |
| 116 | Thermodynamic mixing properties of the $\text{UO}_2\text{-HfO}_2$ solid solution: Density functional theory and Monte Carlo simulations. <i>Journal of Nuclear Materials</i> , 2015, 458, 296-303.   | 2.9  | 3         |
| 117 | Ion-beam irradiation and $^{244}\text{Cm}$ -doping investigations of the radiation response of actinide-bearing crystalline waste forms. <i>Journal of Materials Research</i> , 2015, 30, 1516-1528.   | 2.5  | 16        |
| 118 | Atomic disorder in $\text{Gd}_2\text{Zr}_2\text{O}_7$ pyrochlore. <i>Applied Physics Letters</i> , 2015, 106, .  | 3.0  | 49        |
| 119 | In situ defect annealing of swift heavy ion irradiated $\text{CeO}_2$ and $\text{ThO}_2$ using synchrotron X-ray diffraction and a hydrothermal diamond anvil cell. <i>Journal of Applied Crystallography</i> , 2015, 48, 711-717.           | 2.5  | 27        |
| 120 | Coffinite, $\text{USiO}_4$ , Is Abundant in Nature: So Why Is It So Difficult To Synthesize?. <i>Inorganic Chemistry</i> , 2015, 54, 6687-6696.  | 4.6  | 43        |
| 121 | Response of $\text{Gd}_2\text{Ti}_2\text{O}_7$ and $\text{La}_2\text{Ti}_2\text{O}_7$ to swift-heavy ion irradiation and annealing. <i>Acta Materialia</i> , 2015, 93, 1-11.   | 8.7  | 74        |
| 122 | The behavior of rare-earth pyrochlores and perovskites under ion irradiation. <i>Doklady Earth Sciences</i> , 2015, 461, 247-253.  | 0.7  | 9         |
| 123 | Uranium reduction on magnetite: Probing for pentavalent uranium using electrochemical methods. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 156, 194-206.  | 4.9  | 61        |
| 124 | Constraints on Hf and Zr mobility in high-sulfidation epithermal systems: formation of kosnarite, $\text{KZr}_2(\text{PO}_4)_3$ , in the Chaquicocha gold deposit, Yanacocha district, Peru. <i>Mineralium Deposita</i> , 2015, 50, 429-436. | 3.9  | 4         |
| 125 | Ultrafast laser and swift heavy ion irradiation: Response of $\text{Gd}_2\text{O}_3$ and $\text{ZrO}_2$ to intense electronic excitation. <i>Applied Physics Letters</i> , 2015, 106, .  | 3.0  | 17        |
| 126 | Role of vein-phases in nanoscale sequestration of U, Nb, Ti, and Pb during the alteration of pyrochlore. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 150, 226-252.  | 4.9  | 21        |

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|-----|--|-----|-----------|
| 127 | Photothermal effects and toxicity of Fe <sub>3</sub> O <sub>4</sub> nanoparticles via near infrared laser irradiation for cancer therapy. <i>Materials Science and Engineering C</i> , 2015, 46, 97-102.                             | 5.8 | 39        |
| 128 | Ion Beam Irradiation-Induced Amorphization of Nano-Sized KxLnyTa <sub>2</sub> O <sub>7-v</sub> Tantalate Pyrochlore. <i>Frontiers in Energy Research</i> , 2014, 2, .  | 2.0 | 3         |
| 129 | Presentation of the Distinguished Public Service Award for 2013 of the Mineralogical Society of America to Pierrette Tremblay. <i>American Mineralogist</i> , 2014, 99, 1185-1185.   | 1.8 | 0         |
| 130 | Defect formation energy in pyrochlore: the effect of crystal size. <i>Materials Research Express</i> , 2014, 1, 035501.  | 2.0 | 10        |
| 131 | Swift heavy ion track formation in Gd <sub>2</sub> Zr <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> pyrochlore: Effect of electronic energy loss. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2014, 336, 102-115. | 1.2 | 57        |
| 132 | Molten salts activated by high-energy milling: A useful, low-temperature route for the synthesis of multiferroic compounds. <i>Journal of Alloys and Compounds</i> , 2014, 584, 93-100.  | 6.0 | 10        |
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