

John Rakovan

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

1,364
citations

394421

19
h-index

361022

35
g-index

91
all docs

91
docs citations

91
times ranked

1600
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Nomenclature of the apatite supergroup minerals. <i>European Journal of Mineralogy</i> , 2010, 22, 163-179. | 1.3 | 277 |
| 2 | Intracrystalline rare earth element distributions in apatite: Surface structural influences on incorporation during growth. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 4435-4445. | 3.9 | 92 |
| 3 | Structural Characterization of U(VI) in Apatite by X-ray Absorption Spectroscopy. <i>Environmental Science & Technology</i> , 2002, 36, 3114-3117. | 10.0 | 78 |
| 4 | The crystal chemistry of whitlockite and merrillite and the dehydrogenation of whitlockite to merrillite. <i>American Mineralogist</i> , 2008, 93, 1300-1305. | 1.9 | 65 |
| 5 | Aspects of goethite surface microtopography, structure, chemistry, and reactivity. <i>American Mineralogist</i> , 1999, 84, 884-894. | 1.9 | 61 |
| 6 | Evidence of heterovalent europium in zoned Llallagua apatite using wavelength dispersive XANES. <i>American Mineralogist</i> , 2001, 86, 697-700. | 1.9 | 54 |
| 7 | Site preference of U and Th in Cl, F, and Sr apatites. <i>American Mineralogist</i> , 2009, 94, 345-351. | 1.9 | 53 |
| 8 | Synthesis of REE and Y phosphates by Pb-free flux methods and their utilization as standards for electron microprobe analysis and in design of monazite chemical U-Th-Pb dating protocol. <i>American Mineralogist</i> , 2004, 89, 1533-1539. | 1.9 | 44 |
| 9 | Use of surface-controlled REE sectoral zoning in apatite from Llallagua, Bolivia, to determine a single-crystal SmNd age. <i>Earth and Planetary Science Letters</i> , 1997, 146, 329-336. | 4.4 | 43 |
| 10 | Multiple length scale growth spirals on metamorphic graphite {001} surfaces studied by atomic force microscopy. <i>American Mineralogist</i> , 2002, 87, 17-24. | 1.9 | 42 |
| 11 | Microscopy Studies of the Palygorskite-to-Smectite Transformation. <i>Clays and Clay Minerals</i> , 2005, 53, 92-99. | 1.3 | 37 |
| 12 | Surface-structure-controlled sectoral zoning of the rare earth elements in fluorite from Long Lake, New York, and Bingham, New Mexico, USA. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 997-1009. | 3.9 | 35 |
| 13 | Time-resolved in situ studies of apatite formation in aqueous solutions. <i>American Mineralogist</i> , 2010, 95, 1224-1236. | 1.9 | 35 |
| 14 | Non-Destructive Study of Bulk Crystallinity and Elemental Composition of Natural Gold Single Crystal Samples by Energy-Resolved Neutron Imaging. <i>Scientific Reports</i> , 2017, 7, 40759. | 3.3 | 35 |
| 15 | A Microtexture Study of Palygorskite-rich Sediments from the Hawthorne Formation, Southern Georgia, by Transmission Electron Microscopy and Atomic Force Microscopy. <i>Clays and Clay Minerals</i> , 2004, 52, 263-274. | 1.3 | 29 |
| 16 | Mn-rich fluorapatite from Austria: Crystal structure, chemical analysis, and spectroscopic investigations. <i>American Mineralogist</i> , 2004, 89, 629-632. | 1.9 | 24 |
| 17 | Crystal chemistry of Th in fluorapatite. <i>American Mineralogist</i> , 2011, 96, 23-33. | 1.9 | 24 |
| 18 | Structural relationships among some BePO ₄ , BeAsO ₄ , and AlSiO-RHO frameworks. <i>Zeolites</i> , 1994, 14, 25-34. | 0.5 | 21 |

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|----|---|-----|-----------|
| 19 | Fourier transform infrared spectroscopic study of hydroxylpyromorphite Pb ₁₀ (PO ₄) ₆ OH ₂ –hydroxylmimetite Pb ₁₀ (AsO ₄) ₆ (OH) ₂ solid solution series. <i>Polyhedron</i> , 2015, 99, 103-111. | 2.2 | 19 |
| 20 | Solid solution in the apatite OH-Cl binary system: Compositional dependence of solid-solution mechanisms in calcium phosphate apatites along the Cl-OH binary. <i>American Mineralogist</i> , 2016, 101, 1783-1791. | 1.9 | 19 |
| 21 | Arsenate substitution in lead hydroxyl apatites: A Raman spectroscopic study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 152, 370-377. | 3.9 | 18 |
| 22 | Fe and Ni impurities in synthetic diamond. <i>American Mineralogist</i> , 2003, 88, 1555-1559. | 1.9 | 12 |
| 23 | Surface Structural Controls on Trace Element Incorporation during Crystal Growth. , 1999, , 143-162. | | 12 |
| 24 | Sectoral Zoning. <i>Rocks and Minerals</i> , 2009, 84, 171-176. | 0.1 | 11 |
| 25 | Natural solid-state ion conduction induces metal isotope fractionation. <i>Geology</i> , 2019, 47, 617-621. | 4.4 | 11 |
| 26 | 3. Growth and Surface Properties of Apatite. , 2002, , 51-86. | | 10 |
| 27 | Model of interface-coupled dissolution-precipitation mechanism of pseudomorphic replacement reaction in aqueous solutions based on the system of cerussite PbCO ₃ – pyromorphite Pb ₅ (PO ₄) ₃ Cl. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 289, 1-13. | 3.9 | 10 |
| 28 | Hemimorphism. <i>Rocks and Minerals</i> , 2007, 82, 329-337. | 0.1 | 9 |
| 29 | Characterization of Gold Crystallinity by Diffraction Methods. <i>Rocks and Minerals</i> , 2009, 84, 54-62. | 0.1 | 9 |
| 30 | Geochemical and textural characterization of phosphate accessory phases in the vein assemblage and metasomatically altered Llallagua tin porphyry. <i>Mineralogy and Petrology</i> , 2017, 111, 547-568. | 1.1 | 9 |
| 31 | Mississippi Valley-Type Deposits. <i>Rocks and Minerals</i> , 2006, 81, 69-71. | 0.1 | 8 |
| 32 | The atomic arrangement of the ganophyllite-group modulated layer silicates as determined from the orthorhombic dimorph of tamaite, with the elusive 16.8 Å... ganophyllite-group superstructure revealed. <i>American Mineralogist</i> , 2004, 88, 1324-1330. | 1.9 | 7 |
| 33 | Epitaxy. <i>Rocks and Minerals</i> , 2006, 81, 317-320. | 0.1 | 7 |
| 34 | Fluorapatite From A Remarkable Occurrence of Graphite And Associated Minerals. <i>Rocks and Minerals</i> , 2013, 88, 178-183. | 0.1 | 7 |
| 35 | Fluorite in Mississippi Valley–type Deposits. <i>Rocks and Minerals</i> , 2013, 88, 20-49. | 0.1 | 7 |
| 36 | Optically Sector-Zoned (Star) Diamonds from Zimbabwe. <i>Rocks and Minerals</i> , 2014, 89, 173-178. | 0.1 | 6 |

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|----|---|-----|-----------|
| 37 | Column anion arrangements in chemically zoned ternary chlorapatite and fluorapatite from Kurokura, Japan. <i>American Mineralogist</i> , 2017, 102, 720-727. | 1.9 | 6 |
| 38 | A Word to the Wise: Hypogene & Supergene. <i>Rocks and Minerals</i> , 2003, 78, 419-419. | 0.1 | 5 |
| 39 | NYF-Type Pegmatite. <i>Rocks and Minerals</i> , 2008, 83, 351-353. | 0.1 | 5 |
| 40 | A Word to the Wise: Energy Dispersive Spectrometry (EDS). <i>Rocks and Minerals</i> , 2004, 79, 194-195. | 0.1 | 4 |
| 41 | Word to the wise: Solid solution. <i>Rocks and Minerals</i> , 2005, 80, 449-450. | 0.1 | 4 |
| 42 | Sakura Ishi (Cherry Blossom Stones): Mica Pseudomorphs of Complex Cordierite-Indialite Intergrowths from Kameoka, Kyoto Prefecture, Japan. <i>Rocks and Minerals</i> , 2006, 81, 284-292. | 0.1 | 4 |
| 43 | Words to the Wise— More than 4,000 To Be Exact. <i>Rocks and Minerals</i> , 2007, 82, 423-424. | 0.1 | 4 |
| 44 | Tanakamiyama: A Classic Japanese Pegmatite District. <i>Rocks and Minerals</i> , 2009, 84, 520-527. | 0.1 | 4 |
| 45 | Connoisseur's Choice: Fluorapatite, Acushnet Quarry, Bristol County, Massachusetts. <i>Rocks and Minerals</i> , 2015, 90, 244-259. | 0.1 | 4 |
| 46 | Gold Crystals from the Lena Goldfields, Bodaibo Area, Eastern Siberia, Russia: Exceptional Hoppered Octahedra and Pseudomorphs after Pyrite. <i>Rocks and Minerals</i> , 2017, 92, 410-425. | 0.1 | 4 |
| 47 | Word to the Wise: Growth Hillock. <i>Rocks and Minerals</i> , 2004, 79, 415-417. | 0.1 | 3 |
| 48 | Word to the Wise: Metasomatism. <i>Rocks and Minerals</i> , 2005, 80, 63-64. | 0.1 | 3 |
| 49 | Word to the Wise: Geode (and Friends). <i>Rocks and Minerals</i> , 2017, 92, 85-91. | 0.1 | 3 |
| 50 | Connoisseur's Choice: Wire Silver, Kongsberg, Norway & Wire Gold, Ground Hog Mine, Gilman, Colorado. <i>Rocks and Minerals</i> , 2017, 92, 344-357. | 0.1 | 3 |
| 51 | The Crystallinity of Apatite in Contact with Metamict Pyrochlore from the Silver Crater Mine, ON, Canada. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 244. | 2.0 | 3 |
| 52 | Coming to Terms with Fluorescence: A Short Glossary of Common Terms in the Context of Mineral Fluorescence. <i>Rocks and Minerals</i> , 2021, 96, 20-23. | 0.1 | 3 |
| 53 | Amethyst Sceptered Quartz from Ashaway Village, Hopkinton, Rhode Island. <i>Rocks and Minerals</i> , 1986, 61, 247-250. | 0.1 | 2 |
| 54 | Word to the Wise: Zeolite. <i>Rocks and Minerals</i> , 2004, 79, 271-273. | 0.1 | 2 |

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| 55 | A Word to the Wise: Placer. <i>Rocks and Minerals</i> , 2004, 79, 133-134. | 0.1 | 2 |
| 56 | News: from Japan. <i>Rocks and Minerals</i> , 2005, 80, 440-445. | 0.1 | 2 |
| 57 | Word to the Wise. <i>Rocks and Minerals</i> , 2005, 80, 202-203. | 0.1 | 2 |
| 58 | Phase Transition. <i>Rocks and Minerals</i> , 2006, 81, 467-469. | 0.1 | 2 |
| 59 | Diatreme. <i>Rocks and Minerals</i> , 2006, 81, 153-154. | 0.1 | 2 |
| 60 | Environmental Mineralogy. <i>Rocks and Minerals</i> , 2008, 83, 172-175. | 0.1 | 2 |
| 61 | Synchrotron microanalytical methods in the study of trace and minor elements in apatite. <i>Mineralogia</i> , 2008, 39, 31-40. | 0.8 | 2 |
| 62 | Neutron Diffraction Analysis Verifies Existence of Some of the World's Largest Gold Crystals. <i>Rocks and Minerals</i> , 2014, 89, 404-407. | 0.1 | 2 |
| 63 | Vanadium-rich Muscovite from Austria: Crystal Structure, Chemical Analysis, and Spectroscopic Investigations. <i>Canadian Mineralogist</i> , 2019, 57, 383-389. | 1.0 | 2 |
| 64 | Apatite and the Apatite Supergroup. <i>Rocks and Minerals</i> , 2021, 96, 13-19. | 0.1 | 2 |
| 65 | The origin of trapiche-like inclusion patterns in quartz from Inner Mongolia, China. <i>American Mineralogist</i> , 2021, . . | 1.9 | 2 |
| 66 | Fluorescence Zoning: Examples in Apatite. <i>Rocks and Minerals</i> , 2022, 97, 36-47. | 0.1 | 2 |
| 67 | Ferroaxinite from Lime Crest Quarry, Sparta, New Jersey. <i>Rocks and Minerals</i> , 2003, 78, 252-256. | 0.1 | 1 |
| 68 | A Word to the Wise: Skarn. <i>Rocks and Minerals</i> , 2003, 78, 271-271. | 0.1 | 1 |
| 69 | Word to the Wise: X-Ray Diffraction (XRD). <i>Rocks and Minerals</i> , 2004, 79, 351-353. | 0.1 | 1 |
| 70 | A Word to the Wise:Hydrothermal. <i>Rocks and Minerals</i> , 2004, 79, 64-65. | 0.1 | 1 |
| 71 | News from Japan Part 1: Kyoto Mineral Shops, the Masutomi Geology Museum, and Cherry Blossom Stones. <i>Rocks and Minerals</i> , 2005, 80, 270-273. | 0.1 | 1 |
| 72 | Desert Varnish. <i>Rocks and Minerals</i> , 2006, 81, 393-394. | 0.1 | 1 |

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|----|---|-----|-----------|
| 73 | Greenstone. <i>Rocks and Minerals</i> , 2008, 83, 553-556. | 0.1 | 1 |
| 74 | A New Apatite Nomenclature. <i>Rocks and Minerals</i> , 2010, 85, 204-205. | 0.1 | 1 |
| 75 | The Conco Mine, North Aurora, Kane County, Illinois. <i>Rocks and Minerals</i> , 2012, 87, 116-125. | 0.1 | 1 |
| 76 | Mimetite Formation from Goethite-Adsorbed Ions. <i>Microscopy and Microanalysis</i> , 2016, 22, 698-705. | 0.4 | 1 |
| 77 | Heterogeneous Oxidation and Precipitation of Aqueous Mn(II) at the Goethite Surface: A SPM Study. <i>Microscopy and Microanalysis</i> , 1998, 4, 600-601. | 0.4 | 0 |
| 78 | Microtopographic evolution of mineral surfaces as a tool to identify and date young fault scarps in bedrock. <i>Journal of Geodynamics</i> , 2000, 29, 393-406. | 1.6 | 0 |
| 79 | Pillow Basalt. <i>Rocks and Minerals</i> , 2005, 80, 287-287. | 0.1 | 0 |
| 80 | News from Japan: Part 4: The University of Tokyo (Wakabayashi) and National Science Museum (Sakurai) Collections and a Plethora of Local Monuments and Mineral and Mining Museums. <i>Rocks and Minerals</i> , 2006, 81, 188-198. | 0.1 | 0 |
| 81 | "A" Mica. <i>Rocks and Minerals</i> , 2006, 81, 235-235. | 0.1 | 0 |
| 82 | Who's Who in Mineral Names. <i>Rocks and Minerals</i> , 2007, 82, 516-519. | 0.1 | 0 |
| 83 | Kimberlite: <i>One of the best preserved dikes" and possibly the first found" is currently located in a parking lot on Green Street in downtown Syracuse, New York.</i> <i>Rocks and Minerals</i> , 2008, 83, 267-270. | 0.1 | 0 |
| 84 | Word to the Wise: Materials Mineralogy. <i>Rocks and Minerals</i> , 2010, 85, 352-357. | 0.1 | 0 |
| 85 | PEG 2013, 6th International Symposium on Granitic Pegmatites, 26 May"2 June 2013. <i>Rocks and Minerals</i> , 2013, 88, 539-543. | 0.1 | 0 |
| 86 | Stephen Guggenheim. <i>Clays and Clay Minerals</i> , 2013, 61, 473-474. | 1.3 | 0 |
| 87 | Geochronological characterization of Llallagua altered porphyry and hydrothermal vein assemblages from selected phosphate minerals and zircon. <i>Lithos</i> , 2022, 410-411, 106584. | 1.4 | 0 |
| 88 | Who's Who in Mineral Names: John Michael Hughes (b. 1952). <i>Rocks and Minerals</i> , 2022, 97, 92-93. | 0.1 | 0 |