

Pamela Burnley

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.

40 papers	1,022 citations	14 h-index	31 g-index
42 ext. papers	1,118 ext. citations	5.1 avg, IF	4.12 L-index

#	Paper	IF	Citations
40	Ductile vs. Brittle Strain Localization Induced by the Olivine to Ringwoodite Transformation. <i>Minerals (Basel, Switzerland)</i> , 2022 , 12, 719	2.4	0
39	Initial Acoustoelastic Measurements in Olivine: Investigating the Effect of Stress on P- and S-Wave Velocities. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2021JB022494	3.6	
38	Thermal Analysis, Compressibility, and Decomposition of Synthetic Bastnaesite-(La) to Lanthanum Oxyfluoride. <i>Minerals (Basel, Switzerland)</i> , 2020 , 10, 212	2.4	0
37	Modeling gamma radiation exposure rates using geologic and remote sensing data to locate radiogenic anomalies. <i>Journal of Environmental Radioactivity</i> , 2019 , 208-209, 106038	2.4	1
36	Elastic plastic self-consistent (EPSC) modeling of San Carlos olivine deformed in a D-DIA apparatus. <i>American Mineralogist</i> , 2019 , 104, 276-281	2.9	6
35	In-situ synchrotron X-ray diffraction deformation and EPSC modeling of AZ31 Mg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 739, 99-104	5.3	7
34	Direct observations of crystal defects in polycrystalline diamond. <i>Materials Characterization</i> , 2018 , 142, 154-161	3.9	5
33	Strain Analysis in Polycrystalline Diamond under Extreme Conditions. <i>Microscopy and Microanalysis</i> , 2018 , 24, 980-981	0.5	
32	Quantitative Characterization of Crystal Defects in Planetary Materials in a Scanning Electron Microscope (SEM). <i>Microscopy and Microanalysis</i> , 2018 , 24, 2094-2095	0.5	1
31	Modeling background radiation in Southern Nevada. <i>Journal of Environmental Radioactivity</i> , 2017 , 171, 41-64	2.4	2
30	Monte Carlo simulations of the gamma-ray exposure rates of common rocks. <i>Journal of Environmental Radioactivity</i> , 2017 , 167, 20-25	2.4	
29	Pressure Dependence of Creep in Forsterite Olivine: Comparison of Measurements From the D-DIA and Griggs Apparatus. <i>Geophysical Research Letters</i> , 2017 , 44, 10,939	4.9	8
28	Applications of Electron Channeling Contrast Imaging (ECCI) in Failure Analysis of In-Situ Synchrotron X-Ray Diffraction Deformation Experiments. <i>Microscopy and Microanalysis</i> , 2017 , 23, 568-569	0.5	
27	ECCI, EBSD and EPSC characterization of rhombohedral twinning in polycrystalline alumina deformed in a D-DIA apparatus. <i>Journal of Applied Crystallography</i> , 2017 , 50, 1691-1704	3.8	2
26	Deformation Analysis of Forsterite Olivine Using Electron Channeling Contrast Imaging and Electron Backscatter Diffraction. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1792-1793	0.5	1
25	Modeling background radiation using geochemical data: A case study in and around Cameron, Arizona. <i>Journal of Environmental Radioactivity</i> , 2016 , 165, 68-85	2.4	6
24	Elastic plastic self-consistent (EPSC) modeling of plastic deformation in fayalite olivine. <i>American Mineralogist</i> , 2015 , 100, 1424-1433	2.9	11

23	The mobility of Nb in rutile-saturated NaCl- and NaF-bearing aqueous fluids from 18.5 GPa and 3000 °C. <i>American Mineralogist</i> , 2015 , 100, 1600-1609	2.9	18
22	The importance of stress percolation patterns in rocks and other polycrystalline materials. <i>Nature Communications</i> , 2013 , 4, 2117	17.4	22
21	Kinking in Mg ₂ GeO ₄ olivine: An EBSD study. <i>American Mineralogist</i> , 2013 , 98, 927-931	2.9	4
20	Creating a high temperature environment at high pressure in a gas piston cylinder apparatus. <i>Review of Scientific Instruments</i> , 2012 , 83, 014501	1.7	2
19	Interpreting in situ x-ray diffraction data from high pressure deformation experiments using elastic-plastic self-consistent models: an example using quartz. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 285201	1.8	29
18	Finite element modeling of elastic volume changes in fluid inclusions: Comparison with experiment. <i>American Mineralogist</i> , 2006 , 91, 1807-1814	2.9	5
17	Investigation of the martensitic-like transformation from Mg ₂ GeO ₄ olivine to its spinel structure polymorph. <i>American Mineralogist</i> , 2005 , 90, 1315-1324	2.9	7
16	An Earth Science Scrapbook Project as an Alternative Assessment Tool. <i>Journal of Geoscience Education</i> , 2004 , 52, 245-249	1.8	2
15	VOLUME CHANGES IN FLUID INCLUSIONS PRODUCED BY HEATING AND PRESSURIZATION: AN ASSESSMENT BY FINITE ELEMENT MODELING. <i>Canadian Mineralogist</i> , 2004 , 42, 1369-1382	0.7	9
14	Engagement in Authentic Geoscience Research: Evaluation of Research Experiences of Undergraduates and Secondary Teachers. <i>Journal of Geoscience Education</i> , 2003 , 51, 85-90	1.8	12
13	A Comparison of Approaches and Instruments for Evaluating a Geological Sciences Research Experiences Program. <i>Journal of Geoscience Education</i> , 2002 , 50, 15-24	1.8	9
12	Vibrational spectra of dense, hydrous magnesium silicates at high pressure: Importance of the hydrogen bond angle. <i>American Mineralogist</i> , 1999 , 84, 454-464	2.9	39
11	Shear attenuation and dispersion in MgO. <i>Physics of the Earth and Planetary Interiors</i> , 1997 , 99, 249-257	2.3	26
10	²⁹ Si and ¹ H NMR spectroscopy of high-pressure hydrous magnesium silicates. <i>Physics and Chemistry of Minerals</i> , 1997 , 24, 179-190	1.6	31
9	Thermodynamic properties and hydrogen speciation from vibrational spectra of dense hydrous magnesium silicates. <i>Physics and Chemistry of Minerals</i> , 1996 , 23, 361	1.6	38
8	Synthesis of high-pressure hydrous magnesium silicates; observations and analysis. <i>American Mineralogist</i> , 1996 , 81, 317-326	2.9	18
7	Diamond anvil cell study of the transformation mechanism from the olivine to spinel phase in Co ₂ SiO ₄ , Ni ₂ SiO ₄ , and Mg ₂ GeO ₄ . <i>Journal of Geophysical Research</i> , 1995 , 100, 17715-17723		15
6	The fate of olivine in subducting slabs; a reconnaissance study. <i>American Mineralogist</i> , 1995 , 80, 1293-1301	2.9	25

5	Shear-promoted phase transitions in Fe ₂ SiO ₄ and Mg ₂ SiO ₄ and the mechanism of deep earthquakes. <i>Journal of Geophysical Research</i> , 1993 , 98, 19767-19776	43
4	Faulting associated with the olivine to spinel transformation in Mg ₂ GeO ₄ and its implications for deep-focus earthquakes. <i>Journal of Geophysical Research</i> , 1991 , 96, 425	140
3	The failure mechanism for deep-focus earthquakes. <i>Geological Society Special Publication</i> , 1990 , 54, 133-141	3
2	Stress dependence of the mechanism of the olivine-spinel transformation. <i>Nature</i> , 1989 , 338, 753-756	50.4 118
1	A new self-organizing mechanism for deep-focus earthquakes. <i>Nature</i> , 1989 , 341, 733-737	50.4 356