

# Jason L Baker

## 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.

19  
papers

205  
citations

6  
h-index

14  
g-index

20  
ext. papers

253  
ext. citations

3.3  
avg, IF

2.38  
L-index

#	Paper	IF	Citations
19	Uptake of uranium by carbonate crystallization from reduced and oxidized hydrothermal fluids. <i>Chemical Geology</i> , <b>2021</b> , 564, 120054	4.2	2
18	The Role of Water and Hydroxyl Groups in the Structures of Stetindite and Coffinite, MSiO (M = Ce, U). <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 718-735	5.1	5
17	Pressure-Induced Enhancement of Thermoelectric Figure of Merit and Structural Phase Transition in TiNiSn. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 1046-1051	6.4	2
16	Uranium carbonate complexes demonstrate drastic decrease in stability at elevated temperatures. <i>Communications Chemistry</i> , <b>2021</b> , 4,	6.3	3
15	Heat capacity, entropy, formation energy and spin-fluctuation behavior of U <sub>3</sub> Si <sub>5</sub> from 2.4 to 397.4 K. <i>Journal of Nuclear Materials</i> , <b>2021</b> , 557, 153282	3.3	0
14	Synthesis, Characterization, and Enthalpies of Formation of Uranium Substituted Zirconolites. <i>ACS Earth and Space Chemistry</i> , <b>2020</b> , 4, 1878-1887	3.2	2
13	High-pressure structural behavior and elastic properties of U <sub>3</sub> Si <sub>5</sub> : A combined synchrotron XRD and DFT study. <i>Journal of Nuclear Materials</i> , <b>2020</b> , 540, 152373	3.3	2
12	Design of a containment apparatus for synchrotron XAS measurements of radioactive fluid samples under high temperatures and pressures. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 083108	1.7	1
11	Compressibility and thermoelectric behavior of TiCoSb half-Heusler compound at high pressures. <i>Intermetallics</i> , <b>2018</b> , 95, 137-143	3.5	6
10	Giant Pressure-Induced Enhancement of Seebeck Coefficient and Thermoelectric Efficiency in SnTe. <i>ChemPhysChem</i> , <b>2017</b> , 18, 3315-3319	3.2	7
9	High-pressure Seebeck coefficients and thermoelectric behaviors of Bi and PbTe measured using a Paris-Edinburgh cell. <i>Journal of Synchrotron Radiation</i> , <b>2016</b> , 23, 1368-1378	2.4	6
8	Pressure induced structural transitions in CuSbS <sub>2</sub> and CuSbSe <sub>2</sub> thermoelectric compounds. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 643, 186-194	5.7	41
7	High pressure transport and structural studies on Nb <sub>3</sub> Ga superconductor. <i>Physica B: Condensed Matter</i> , <b>2015</b> , 459, 21-23	2.8	5
6	Effect of Pressure and Temperature on Structural Stability of MoS <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 3230-3235	3.8	84
5	Structural stability of WS <sub>2</sub> under high pressure. <i>International Journal of Modern Physics B</i> , <b>2014</b> , 28, 1450168	1.68	20
4	Pressure-induced superconductivity in LaFeAsO: The role of anionic height and magnetic ordering. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 251902	3.4	6
3	In situ x-ray diffraction, electrical resistivity and thermal measurements using a Paris-Edinburgh cell at HPCAT 16BM-B beamline. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 500, 142003	0.3	1

2 High Pressure Materials Physics Research at UNLV. *Materials Science Forum*, **2014**, 783-786, 1836-1838 0.4

1 Pressure induced high spin-low spin transition in FeSe superconductor studied by x-ray emission spectroscopy and ab initio calculations. *Applied Physics Letters*, **2011**, 99, 061913 3.4 12