

# Stephen Stackhouse

## List of Publications by Citations

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32  
papers

1,542  
citations

23  
h-index

35  
g-index

35  
ext. papers

1,627  
ext. citations

6.8  
avg, IF

4.3  
L-index

#	Paper	IF	Citations
32	Efficacy of the post-perovskite phase as an explanation for lowermost-mantle seismic properties. <i>Nature</i> , <b>2005</b> , 438, 1004-7	50.4	175
31	The effect of temperature on the seismic anisotropy of the perovskite and post-perovskite polymorphs of MgSiO <sub>3</sub> . <i>Earth and Planetary Science Letters</i> , <b>2005</b> , 230, 1-10	5.3	129
30	Caesium incorporation and retention in illite interlayers. <i>Applied Clay Science</i> , <b>2015</b> , 108, 128-134	5.2	124
29	On the application of computer simulation techniques to anionic and cationic clays: A materials chemistry perspective. <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 708-723		119
28	Thermal conductivity of periclase (MgO) from first principles. <i>Physical Review Letters</i> , <b>2010</b> , 104, 208501	7.4	101
27	Electronic spin transitions in iron-bearing MgSiO <sub>3</sub> perovskite. <i>Earth and Planetary Science Letters</i> , <b>2007</b> , 253, 282-290	5.3	89
26	Plane-wave density functional theoretic study of formation of clay-polymer nanocomposite materials by self-catalyzed in situ intercalative polymerization. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 11764-74	16.4	75
25	A New Design Strategy for Molecular Recognition in Heterogeneous Systems: A Universal Crystal-Face Growth Inhibitor for Barium Sulfate. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 11557-11558	16.4	60
24	A Density Functional Theory Study of Catalytic trans-Esterification by tert-Butoxide MgAl Anionic Clays. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 3476-3485	3.4	59
23	Elastic anisotropy of FeSiO <sub>3</sub> end-members of the perovskite and post-perovskite phases. <i>Geophysical Research Letters</i> , <b>2006</b> , 33, n/a-n/a	4.9	55
22	Electronic spin transitions and the seismic properties of ferrous iron-bearing MgSiO <sub>3</sub> post-perovskite. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4.9	44
21	Electronic spin state of ferric iron in Al-bearing perovskite in the lower mantle. <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4.9	42
20	Simulation of hydrated Li <sup>+</sup> , Na <sup>+</sup> and K <sup>+</sup> -montmorillonite/polymer nanocomposites using large-scale molecular dynamics. <i>Chemical Physics Letters</i> , <b>2004</b> , 389, 261-267	2.5	42
19	Density-Functional-Theory-Based Study of the Dehydroxylation Behavior of Aluminous Dioctahedral 2:1 Layer-Type Clay Minerals. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 9685-9694	3.4	39
18	Elasticity of (Mg, Fe)(Si, Al)O <sub>3</sub> -perovskite at high pressure. <i>Earth and Planetary Science Letters</i> , <b>2005</b> , 240, 529-536	5.3	38
17	Variation of thermal conductivity and heat flux at the Earth's core mantle boundary. <i>Earth and Planetary Science Letters</i> , <b>2014</b> , 390, 175-185	5.3	37
16	High temperature elastic anisotropy of the perovskite and post-perovskite polymorphs of Al <sub>2</sub> O <sub>3</sub> . <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4.9	35

15	The enigma of post-perovskite anisotropy: deformation versus transformation textures. <i>Physics and Chemistry of Minerals</i> , <b>2011</b> , 38, 665-678	1.6	31
14	Determination of the high-pressure properties of fayalite from first-principles calculations. <i>Earth and Planetary Science Letters</i> , <b>2010</b> , 289, 449-456	5.3	31
13	First-principles calculations of the lattice thermal conductivity of the lower mantle. <i>Earth and Planetary Science Letters</i> , <b>2015</b> , 427, 11-17	5.3	30
12	Study of Thermally Treated Lithium Montmorillonite by Ab Initio Methods. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 12470-12477	3.4	29
11	High-pressure, temperature elasticity of Fe- and Al-bearing MgSiO <sub>3</sub> : Implications for the Earth's lower mantle. <i>Earth and Planetary Science Letters</i> , <b>2016</b> , 434, 264-273	5.3	28
10	Configuring pnictogen rings in skutterudites for low phonon conductivity. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	28
9	Shear-induced material transfer across the core-mantle boundary aided by the post-perovskite phase transition. <i>Earth, Planets and Space</i> , <b>2005</b> , 57, 459-464	2.9	21
8	Methodology for determining the electronic thermal conductivity of metals via direct nonequilibrium ab initio molecular dynamics. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	16
7	Elastic properties of the post-perovskite phase of Fe <sub>2</sub> O <sub>3</sub> and implications for ultra-low velocity zones. <i>Physics of the Earth and Planetary Interiors</i> , <b>2008</b> , 170, 260-266	2.3	15
6	The rational design, synthesis and demonstration of the recognition and binding of a diaza-dioxa-12-crown-4 diphosphonate macrocycle to all crystal growth faces of barium sulfate. <i>Perkin Transactions II RSC</i> , <b>2002</b> , 1238-1245		13
5	The High-Temperature Elasticity of MgSiO <sub>3</sub> Post-Perovskite. <i>Geophysical Monograph Series</i> , <b>2007</b> , 99-113	1.1	11
4	Equations of state and stability of MgSiO <sub>3</sub> perovskite and post-perovskite phases from quantum Monte Carlo simulations. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	9
3	Frontispiece: Ion Association in Lanthanide Chloride Solutions. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25,	4.8	8
2	Ion Association in Lanthanide Chloride Solutions. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 8725-8740	4.8	2
1	Gaining Insight into the Structure and Dynamics of Clay/Polymer Nanocomposite Systems Through Computer Simulation <b>2008</b> , 175-203		