

Stephen Stackhouse

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.

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	Ion Association in Lanthanide Chloride Solutions. <i>Chemistry - A European Journal</i> , 2019 , 25, 8725-8740	4.8	2
31	Frontispiece: Ion Association in Lanthanide Chloride Solutions. <i>Chemistry - A European Journal</i> , 2019 , 25,	4.8	8
30	Methodology for determining the electronic thermal conductivity of metals via direct nonequilibrium ab initio molecular dynamics. <i>Physical Review B</i> , 2016 , 94,	3.3	16
29	High-pressure, temperature elasticity of Fe- and Al-bearing MgSiO ₃ : Implications for the Earth's lower mantle. <i>Earth and Planetary Science Letters</i> , 2016 , 434, 264-273	5.3	28
28	First-principles calculations of the lattice thermal conductivity of the lower mantle. <i>Earth and Planetary Science Letters</i> , 2015 , 427, 11-17	5.3	30
27	Caesium incorporation and retention in illite interlayers. <i>Applied Clay Science</i> , 2015 , 108, 128-134	5.2	124
26	Variation of thermal conductivity and heat flux at the Earth's core mantle boundary. <i>Earth and Planetary Science Letters</i> , 2014 , 390, 175-185	5.3	37
25	Equations of state and stability of MgSiO ₃ perovskite and post-perovskite phases from quantum Monte Carlo simulations. <i>Physical Review B</i> , 2014 , 90,	3.3	9
24	Configuring pnictogen rings in skutterudites for low phonon conductivity. <i>Physical Review B</i> , 2012 , 86,	3.3	28
23	The enigma of post-perovskite anisotropy: deformation versus transformation textures. <i>Physics and Chemistry of Minerals</i> , 2011 , 38, 665-678	1.6	31
22	Thermal conductivity of periclase (MgO) from first principles. <i>Physical Review Letters</i> , 2010 , 104, 208501	7.4	101
21	Determination of the high-pressure properties of fayalite from first-principles calculations. <i>Earth and Planetary Science Letters</i> , 2010 , 289, 449-456	5.3	31
20	Elastic properties of the post-perovskite phase of Fe ₂ O ₃ and implications for ultra-low velocity zones. <i>Physics of the Earth and Planetary Interiors</i> , 2008 , 170, 260-266	2.3	15
19	Gaining Insight into the Structure and Dynamics of Clay/Polymer Nanocomposite Systems Through Computer Simulation 2008 , 175-203		
18	Electronic spin transitions in iron-bearing MgSiO ₃ perovskite. <i>Earth and Planetary Science Letters</i> , 2007 , 253, 282-290	5.3	89
17	The High-Temperature Elasticity of MgSiO ₃ Post-Perovskite. <i>Geophysical Monograph Series</i> , 2007 , 99-113	1.1	11
16	On the application of computer simulation techniques to anionic and cationic clays: A materials chemistry perspective. <i>Journal of Materials Chemistry</i> , 2006 , 16, 708-723		119

15	Elastic anisotropy of FeSiO ₃ end-members of the perovskite and post-perovskite phases. <i>Geophysical Research Letters</i> , 2006 , 33, n/a-n/a	4.9	55
14	Electronic spin transitions and the seismic properties of ferrous iron-bearing MgSiO ₃ post-perovskite. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	44
13	Shear-induced material transfer across the core-mantle boundary aided by the post-perovskite phase transition. <i>Earth, Planets and Space</i> , 2005 , 57, 459-464	2.9	21
12	The effect of temperature on the seismic anisotropy of the perovskite and post-perovskite polymorphs of MgSiO ₃ . <i>Earth and Planetary Science Letters</i> , 2005 , 230, 1-10	5.3	129
11	Elasticity of (Mg, Fe)(Si, Al)O ₃ -perovskite at high pressure. <i>Earth and Planetary Science Letters</i> , 2005 , 240, 529-536	5.3	38
10	Electronic spin state of ferric iron in Al-bearing perovskite in the lower mantle. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	42
9	High temperature elastic anisotropy of the perovskite and post-perovskite polymorphs of Al ₂ O ₃ . <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	35
8	Efficacy of the post-perovskite phase as an explanation for lowermost-mantle seismic properties. <i>Nature</i> , 2005 , 438, 1004-7	50.4	175
7	Simulation of hydrated Li ⁺ , Na ⁺ and K ⁺ -montmorillonite/polymer nanocomposites using large-scale molecular dynamics. <i>Chemical Physics Letters</i> , 2004 , 389, 261-267	2.5	42
6	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> , 2004 , 108, 9685-9694	3.4	39
5	A Density Functional Theory Study of Catalytic trans-Esterification by tert-Butoxide MgAl Anionic Clays. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 3476-3485	3.4	59
4	Study of Thermally Treated Lithium Montmorillonite by Ab Initio Methods. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 12470-12477	3.4	29
3	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> , 2002 , 1238-1245		13
2	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> , 2001 , 123, 11764-74	16.4	75
1	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> , 2000 , 122, 11557-11558	16.4	60