Donghoon Seoung

List of Publications by Year
in descending order

24 papers	428 citations	840776 11 h-index	713466 21 g-index
25 all docs	25 docs citations	25 times ranked	440 citing authors

#	Article	IF	Citations
1	Pressure- and Heat-Induced Insertion of CO₂ into an Auxetic Small-Pore Zeolite. Journal of the American Chemical Society, 2011, 133, 1674-1677.	13.7	59
2	A role for subducted super-hydrated kaolinite in Earthâ€™s deep water cycle. Nature Geoscience, 2017, 10, 947-953.	12.9	47
3	Natrolite may not be a "soda-stone" anymore: Structural study of fully K-, Rb-, and Cs-exchanged natrolite. American Mineralogist, 2010, 95, 1636-1641.	1.9	45
4	Irreversible xenon insertion into a small-pore zeolite at moderate pressures and temperatures. Nature Chemistry, 2014, 6, 835-839.	13.6	42
5	Superâ€Hydrated Zeolites: Pressureâ€Induced Hydration in Natrolites. Chemistry - A European Journal, 2013, 19, 10876-10883.	3.3	39
6	Natrolite is not a "soda-stone" anymore: Structural study of alkali (Li+), alkaline-earth (Ca2+, Sr2+,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1718-1724.	1.9	33
7	Pressure-Dependent Structural and Chemical Changes in a Metalâ€“Organic Framework with One-Dimensional Pore Structure. Chemistry of Materials, 2016, 28, 5336-5341.	6.7	25
8	Two-Step Pressure-Induced Superhydration in Small Pore Natrolite with Divalent Extra-Framework Cations. Chemistry of Materials, 2015, 27, 3874-3880.	6.7	21
9	In-situ dehydration studies of fully K-, Rb-, and Cs-exchanged natrolites. American Mineralogist, 2011, 96, 393-401.	1.9	20
10	Immobilization of Large, Aliovalent Cations in the Smallâ€Pore Zeolite Kâ€Natrolite by Means of Pressure. Angewandte Chemie - International Edition, 2012, 51, 4848-4851.	13.8	14
11	Pressureâ€Induced Hydration and Insertion of CO₂ into Agâ€Natrolite. Chemistry - A European Journal, 2013, 19, 5806-5811.	3.3	13
12	Pressure-Induced Metathesis Reaction To Sequester Cs. Environmental Science & Technology, 2015, 49, 513-519.	10.0	11
13	Pressure-induced hydration and cation migration in a Cs+ exchanged gallosilicate zeolite LTL: Synchrotron X-ray powder diffraction study at ambient and high pressures. Microporous and Mesoporous Materials, 2010, 136, 75-82.	4.4	9
14	Thermal behavior of groundwater-saturated Korean buffer under the elevated temperature conditions: In-situ synchrotron X-ray powder diffraction study for the montmorillonite in Korean bentonite. Nuclear Engineering and Technology, 2021, 53, 1511-1518.	2.3	9
15	Spectroscopic characterization of alkali-metal exchanged natrolites. American Mineralogist, 2012, 97, 419-424.	1.9	8
16	Effect of water solubilities on dehydration and hydration in subduction zones and water transport to the deep mantle: Implications for natural subduction zones. Gondwana Research, 2021, 89, 287-305.	6.0	8
17	Structural studies of NH4-exchanged natrolites at ambient conditions and high temperature. American Mineralogist, 2011, 96, 1308-1315.	1.9	7
18	Pressure-induced transition from Jeff=1/2 to S=1/2 states in CuAl2O4. Physical Review B, 2021, 103, .	3.2	5

#	Article	IF	Citations
19	High-Pressure Spectroscopic Study of Hydrous and Anhydrous Cs-Exchanged Natrolites. Journal of Physical Chemistry C, 2012, 116, 2159-2164.	3.1	4
20	Topotactic and reconstructive changes at high pressures and temperatures from Cs-natrolite to Cs-hexacelsian. American Mineralogist, 2015, 100, 1562-1567.	1.9	3
21	Comparative Compressibility of Smectite Group under Anhydrous and Hydrous Environments. Materials, 2020, 13, 3784.	2.9	3
22	Pressure- and Temperature-Induced Insertion of N2, O2 and CH4 to Ag-Natrolite. Materials, 2020, 13, 4096.	2.9	2
23	Ti-Magnetite Crystallization in Melt Inclusions of Trachytic Rocks from the Dokdo and Ulleung Islands, South Korea: Implications for Hydrous and Oxidized Magmatism. Minerals (Basel,) Tj ETQq1 1 0.784314 rg BT /Overlook 10 Tf 50	2.0	0
24	Mineralogy of the Mudeungsan Tuff (Republic of Korea) Using Synchrotron X-ray Powder Diffraction and Rietveld Quantitative Analysis. Applied Sciences (Switzerland), 2021, 11, 10796.	2.5	0