

# Donghoon Seung

## List of Publications by Year in descending order

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24  
papers

428  
citations

840776

11  
h-index

713466

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g-index

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all docs

25  
docs citations

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times ranked

440  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of water solubilities on dehydration and hydration in subduction zones and water transport to the deep mantle: Implications for natural subduction zones. <i>Gondwana Research</i> , 2021, 89, 287-305.	6.0	8
2	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. <i>Nuclear Engineering and Technology</i> , 2021, 53, 1511-1518.	2.3	9
3	Pressure-induced transition from Jeff=1/2 to S=1/2 states in CuAl <sub>2</sub> O <sub>4</sub> . <i>Physical Review B</i> , 2021, 103, .	3.2	5
4	Mineralogy of the Mudeungsan Tuff (Republic of Korea) Using Synchrotron X-ray Powder Diffraction and Rietveld Quantitative Analysis. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10796.	2.5	0
5	Pressure- and Temperature-Induced Insertion of N <sub>2</sub> , O <sub>2</sub> and CH <sub>4</sub> to Ag-Natrolite. <i>Materials</i> , 2020, 13, 4096.	2.9	2
6	Ti-Magnetite Crystallization in Melt Inclusions of Trachytic Rocks from the Dokdo and Ulleung Islands, South Korea: Implications for Hydrous and Oxidized Magmatism. <i>Minerals (Basel)</i> , Tj ETQq0 0 0 rgBT /Overlook 10 Tf 60 537 Td		
7	Comparative Compressibility of Smectite Group under Anhydrous and Hydrous Environments. <i>Materials</i> , 2020, 13, 3784.	2.9	3
8	A role for subducted super-hydrated kaolinite in Earth's deep water cycle. <i>Nature Geoscience</i> , 2017, 10, 947-953.	12.9	47
9	Pressure-Dependent Structural and Chemical Changes in a Metal-Organic Framework with One-Dimensional Pore Structure. <i>Chemistry of Materials</i> , 2016, 28, 5336-5341.	6.7	25
10	Pressure-Induced Metathesis Reaction To Sequester Cs. <i>Environmental Science &amp; Technology</i> , 2015, 49, 513-519.	10.0	11
11	Topotactic and reconstructive changes at high pressures and temperatures from Cs-natrolite to Cs-hexacelsian. <i>American Mineralogist</i> , 2015, 100, 1562-1567.	1.9	3
12	Two-Step Pressure-Induced Superhydration in Small Pore Natrolite with Divalent Extra-Framework Cations. <i>Chemistry of Materials</i> , 2015, 27, 3874-3880.	6.7	21
13	Irreversible xenon insertion into a small-pore zeolite at moderate pressures and temperatures. <i>Nature Chemistry</i> , 2014, 6, 835-839.	13.6	42
14	Super-Hydrated Zeolites: Pressure-Induced Hydration in Natrolites. <i>Chemistry - A European Journal</i> , 2013, 19, 10876-10883.	3.3	39
15	Pressure-Induced Hydration and Insertion of CO <sub>2</sub> into Ag-Natrolite. <i>Chemistry - A European Journal</i> , 2013, 19, 5806-5811.	3.3	13
16	Spectroscopic characterization of alkali-metal exchanged natrolites. <i>American Mineralogist</i> , 2012, 97, 419-424.	1.9	8
17	High-Pressure Spectroscopic Study of Hydrous and Anhydrous Cs-Exchanged Natrolites. <i>Journal of Physical Chemistry C</i> , 2012, 116, 2159-2164.	3.1	4
18	Immobilization of Large, Alivalent Cations in the Small-Pore Zeolite K-Natrolite by Means of Pressure. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4848-4851.	13.8	14

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19	Pressure- and Heat-Induced Insertion of CO <sub>2</sub> into an Auxetic Small-Pore Zeolite. Journal of the American Chemical Society, 2011, 133, 1674-1677.	13.7	59
20	Natrolite is not a "soda-stone" anymore: Structural study of alkali (Li+), alkaline-earth (Ca <sup>2+</sup> , Sr <sup>2+</sup> ), Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1718-1724.	1.9	33
21	In-situ dehydration studies of fully K-, Rb-, and Cs-exchanged natrolites. American Mineralogist, 2011, 96, 393-401.	1.9	20
22	Structural studies of NH <sub>4</sub> -exchanged natrolites at ambient conditions and high temperature. American Mineralogist, 2011, 96, 1308-1315.	1.9	7
23	Pressure-induced hydration and cation migration in a Cs <sup>+</sup> 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
24	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