

CITATION REPORT

List of articles citing

Polythermal Study of the Systems $M(\text{ClO}_4)_2\text{-H}_2\text{O}$ ($M^{2+} = \text{Mg}^{2+}, \text{Ca}^{2+}, \text{Sr}^{2+}, \text{Ba}^{2+}$)

DOI: 10.1007/s11167-005-0306-z

Russian Journal of Applied Chemistry, 2005, 78, 409-413.

Source: <https://exaly.com/paper-pdf/38525871/citation-report.pdf>

Version: 2024-04-20

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
66	Detection of perchlorate and the soluble chemistry of martian soil at the Phoenix lander site. <i>Science</i> , 2009 , 325, 64-7	33.3	748
65	Stability of perchlorate hydrates and their liquid solutions at the Phoenix landing site, Mars. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	114
64	Possible physical and thermodynamical evidence for liquid water at the Phoenix landing site. <i>Journal of Geophysical Research</i> , 2009 , 114,		117
63	Modeling aqueous perchlorate chemistries with applications to Mars. <i>Icarus</i> , 2010 , 207, 675-685	3.8	90
62	A perchlorate brine lubricated deformable bed facilitating flow of the north polar cap of Mars: Possible mechanism for water table recharging. <i>Journal of Geophysical Research</i> , 2010 , 115,		21
61	Initial results from the thermal and electrical conductivity probe (TECP) on Phoenix. <i>Journal of Geophysical Research</i> , 2010 , 115,		93
60	Habitability of the Phoenix landing site. <i>Journal of Geophysical Research</i> , 2010 , 115,		65
59	Discovery of natural perchlorate in the Antarctic Dry Valleys and its global implications. <i>Environmental Science & Technology</i> , 2010 , 44, 2360-4	10.3	144
58	Dielectric signatures of adsorbed and salty liquid water at the Phoenix landing site, Mars. <i>Journal of Geophysical Research</i> , 2011 , 116,		34
57	Laboratory studies of perchlorate phase transitions: Support for metastable aqueous perchlorate solutions on Mars. <i>Earth and Planetary Science Letters</i> , 2011 , 312, 371-377	5.3	107
56	Modeling hot spring chemistries with applications to martian silica formation. <i>Icarus</i> , 2011 , 212, 629-642	3.8	19
55	Sorted clastic stripes, lobes and associated gullies in high-latitude craters on Mars: Landforms indicative of very recent, polycyclic ground-ice thaw and liquid flows. <i>Icarus</i> , 2011 , 211, 458-471	3.8	58
54	Locations of thin liquid water layers on present-day Mars. <i>Icarus</i> , 2012 , 221, 289-295	3.8	28
53	Weakening of ice by magnesium perchlorate hydrate. <i>Icarus</i> , 2013 , 225, 940-948	3.8	5
52	Morphological evidence for geologically young thaw of ice on Mars: A review of recent studies using high-resolution imaging data. <i>Progress in Physical Geography</i> , 2013 , 37, 289-324	3.5	26
51	Crystal structures of $\text{Sr}(\text{ClO}_4)_2 \cdot 2\text{H}_2\text{O}$, $\text{Sr}(\text{ClO}_4)_2 \cdot 4\text{H}_2\text{O}$ and $\text{Sr}(\text{ClO}_4)_2 \cdot 6\text{H}_2\text{O}$. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014 , 70, 510-4		7
50	Solubility polytherms and eutectic concentrations of scandium, yttrium, and lanthanum perchlorate solutions. <i>Russian Journal of General Chemistry</i> , 2014 , 84, 1899-1903	0.7	1

49	Near Infrared Spectral Studies of Aqueous Solutions of Metal Perchlorates in Groups I A, II A, II B, III A and III B of the Periodic Table. <i>Journal of Near Infrared Spectroscopy</i> , 2014 , 22, 27-34	1.5	5
48	What can in situ ion chromatography offer for Mars exploration?. <i>Astrobiology</i> , 2014 , 14, 577-88	3.7	8
47	Crystal structures of Ca(ClO ₄) ₂ ·4H ₂ O and Ca(ClO ₄) ₂ ·6H ₂ O. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014 , 70, 489-93		3
46	Soluble salts at the Phoenix Lander site, Mars: A reanalysis of the Wet Chemistry Laboratory data. <i>Geochimica Et Cosmochimica Acta</i> , 2014 , 136, 142-168	5.5	43
45	HiRISE observations of Recurring Slope Lineae (RSL) during southern summer on Mars. <i>Icarus</i> , 2014 , 231, 365-376	3.8	76
44	The formation of sulfate, nitrate and perchlorate salts in the martian atmosphere. <i>Icarus</i> , 2014 , 231, 51-64	3.8	85
43	A new analysis of Mars "Special Regions": findings of the second MEPAG Special Regions Science Analysis Group (SR-SAG2). <i>Astrobiology</i> , 2014 , 14, 887-968	3.7	244
42	Deliquescence and efflorescence of calcium perchlorate: An investigation of stable aqueous solutions relevant to Mars. <i>Icarus</i> , 2014 , 243, 420-428	3.8	69
41	The formation of supercooled brines, viscous liquids, and low-temperature perchlorate glasses in aqueous solutions relevant to Mars. <i>Icarus</i> , 2014 , 233, 36-47	3.8	71
40	Searching for springtime zonal liquid interfacial water on Mars. <i>Icarus</i> , 2014 , 238, 66-76	3.8	10
39	Laboratory investigation of perchlorate deliquescence at the surface of Mars with a Raman scattering lidar. <i>Geophysical Research Letters</i> , 2015 , 42, 7899-7906	4.9	21
38	Spectral evidence for hydrated salts in recurring slope lineae on Mars. <i>Nature Geoscience</i> , 2015 , 8, 829-833	3.3	415
37	A revised Pitzer model for low-temperature soluble salt assemblages at the Phoenix site, Mars. <i>Geochimica Et Cosmochimica Acta</i> , 2015 , 166, 327-343	5.5	23
36	Initiation and growth of martian ice lenses. <i>Icarus</i> , 2015 , 251, 191-210	3.8	43
35	Possible water lubricated grain movement in the circumpolar region of Mars. <i>Planetary and Space Science</i> , 2016 , 125, 130-146	2	7
34	Structural Inhomogeneity in Electrolyte Solutions: The Calcium Perchlorate-Water System. <i>Journal of Solution Chemistry</i> , 2017 , 46, 1854-1870	1.8	3
33	Unconventional Deep Eutectic Solvents: Aqueous Salt Hydrates. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 11780-11787	8.3	29
32	Water uptake and hygroscopicity of perchlorates and implications for the existence of liquid water in some hyperarid environments. <i>RSC Advances</i> , 2017 , 7, 46866-46873	3.7	9

31	Highly compressed water structure observed in a perchlorate aqueous solution. <i>Nature Communications</i> , 2017 , 8, 919	17.4	28
30	The Early Mars Climate System. 526-568		6
29	Martian Redox Chemistry: Oxygen Reduction in Low-Temperature Magnesium Perchlorate Brines. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 6171-6175	6.4	1
28	Salts Forming Low-Melting Eutectics with Water: BET Parameters. <i>Journal of Solution Chemistry</i> , 2017 , 46, 1451-1455	1.8	2
27	Enhanced Microbial Survivability in Subzero Brines. <i>Astrobiology</i> , 2018 , 18, 1171-1180	3.7	20
26	Constraining the Potential Liquid Water Environment at Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2018 , 123, 1156-1167	4.1	31
25	O ₂ solubility in Martian near-surface environments and implications for aerobic life. <i>Nature Geoscience</i> , 2018 , 11, 905-909	18.3	41
24	Chlorate brines on Mars: Implications for the occurrence of liquid water and deliquescence. <i>Earth and Planetary Science Letters</i> , 2018 , 497, 161-168	5.3	15
23	The Effect of Mars-Relevant Soil Analogs on the Water Uptake of Magnesium Perchlorate and Implications for the Near-Surface of Mars. <i>Journal of Geophysical Research E: Planets</i> , 2018 , 123, 2076-2088	4.1	10
22	Enhanced Formation of Solvent-Shared Ion Pairs in Aqueous Calcium Perchlorate Solution toward Saturated Concentration or Deep Supercooling Temperature and Its Effects on the Water Structure. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 9654-9667	3.4	3
21	A Simple Instrument Suite for Characterizing Habitability and Weathering: The Modern Aqueous Habitat Reconnaissance Suite (MAHRS). <i>Astrobiology</i> , 2019 , 19, 849-866	3.7	1
20	Water on Mars, With a Grain of Salt: Local Heat Anomalies Are Required for Basal Melting of Ice at the South Pole Today. <i>Geophysical Research Letters</i> , 2019 , 46, 1222-1231	4.9	38
19	Reimagining terraforming. <i>Nature Astronomy</i> , 2019 , 3, 883-884	12.1	2
18	Solid-solid hydration and dehydration of Mars-relevant chlorine salts: Implications for Gale Crater and RSL locations. <i>Icarus</i> , 2019 , 321, 1-13	3.8	12
17	Properties of Deep Eutectic Solvents. 2019 , 45-110		5
16	Small-scale lobate hillslope features on Mars: A comparative 3D morphological study with terrestrial solifluction lobes and zebra stripe lobes. <i>Icarus</i> , 2020 , 342, 113606	3.8	4
15	Fuel and oxygen harvesting from Martian regolithic brine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 31685-31689	11.5	5
14	A Monte Carlo Approach to Approximating the Effects of Pore Geometry on the Phase Behavior of Soil Freezing. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2020MS002117	7.1	4

13	A New Record for Microbial Perchlorate Tolerance: Fungal Growth in NaClO Brines and its Implications for Putative Life on Mars. <i>Life</i> , 2020 , 10,	3	11
12	DISTRIBUTION AND HABITABILITY OF (META)STABLE BRINES ON PRESENT-DAY MARS. <i>Nature Astronomy</i> , 2020 , 4, 756-761	12.1	28
11	Stability of the Liquid Water Phase on Mars: A Thermodynamic Analysis Considering Martian Atmospheric Conditions and Perchlorate Brine Solutions. <i>ACS Omega</i> , 2020 , 5, 9391-9397	3.9	5
10	Trimethylamine N-oxide (TMAO) resists the compression of water structure by magnesium perchlorate: terrestrial kosmotrope vs. Martian chaotrope. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 4924-4937	3.6	4
9	Multiple subglacial water bodies below the south pole of Mars unveiled by new MARSIS data. <i>Nature Astronomy</i> , 2021 , 5, 63-70	12.1	56
8	Transcriptional response to prolonged perchlorate exposure in the methanogen <i>Methanosarcina barkeri</i> and implications for Martian habitability. <i>Scientific Reports</i> , 2021 , 11, 12336	4.9	0
7	Complex Brines and Their Implications for Habitability. <i>Life</i> , 2021 , 11,	3	1
6	Deliquescence probability maps of Mars and key limiting factors using GCM model calculations. <i>Icarus</i> , 2022 , 376, 114856	3.8	0
5	The stability of a liquid-water body below the south polar cap of Mars. <i>Icarus</i> , 2022 , 383, 115073	3.8	1
4	Numerical simulations of radar echoes rule out basal CO ₂ ice deposits at Ultimi Scopuli, Mars. <i>Icarus</i> , 2022 , 386, 115163	3.8	0
3	A possible perchlorate-enabled mechanism for forming thick near surface excess ice layers; in the Amazonian regolith of Mars. 2022 , 387, 115198		0
2	Methane and oxygen from energy-efficient, low temperature in situ resource utilization enables missions to Mars.		0
1	Laboratory Studies of Brine Growth Kinetics Relevant to Deliquescence on Mars. 2023 , 4, 46		0