

Vassilios Saltas

List of Publications by Year in descending order

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41
papers

686
citations

623734

14
h-index

580821

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g-index

41
all docs

41
docs citations

41
times ranked

552
citing authors

#	ARTICLE	IF	CITATIONS
1	Use of engineering geophysics to investigate a site for a building foundation. <i>Journal of Geophysics and Engineering</i> , 2007, 4, 94-103.	1.4	73
2	Pressure stimulated currents in rocks and their correlation with mechanical properties. <i>Natural Hazards and Earth System Sciences</i> , 2004, 4, 563-567.	3.6	62
3	Potential of acoustic emissions from three point bending tests as rock failure precursors. <i>International Journal of Mining Science and Technology</i> , 2016, 26, 155-160.	10.3	57
4	Application of the cBÎ© model to the calculation of diffusion parameters of He in olivine. <i>Physics and Chemistry of Minerals</i> , 2014, 41, 181-188.	0.8	39
5	Dielectric and conductivity measurements as proxy method to monitor contamination in sandstone. <i>Journal of Hazardous Materials</i> , 2007, 142, 520-525.	12.4	36
6	Biomonitoring of Environmental Pollution Using Dielectric Properties of Tree Leaves. <i>Environmental Monitoring and Assessment</i> , 2007, 133, 69-78.	2.7	34
7	A thermodynamic approach of self- and hetero-diffusion in GaAs: connecting point defect parameters with bulk properties. <i>RSC Advances</i> , 2016, 6, 53324-53330.	3.6	30
8	Composition and temperature dependence of self-diffusion in Si1âˆ´x Ge x alloys. <i>Scientific Reports</i> , 2017, 7, 1374.	3.3	26
9	Dielectric properties of non-swelling bentonite: The effect of temperature and water saturation. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 5533-5541.	3.1	25
10	A combined complex electrical impedance and acoustic emission study in limestone samples under uniaxial loading. <i>Tectonophysics</i> , 2014, 637, 198-206.	2.2	24
11	Modelling solid solutions with cluster expansion, special quasirandom structures, and thermodynamic approaches. <i>Applied Physics Reviews</i> , 2017, 4, 041301.	11.3	20
12	A thermodynamic approach to self-diffusion in silicon: Evidence of a single diffusion mechanism?. <i>Materials Chemistry and Physics</i> , 2016, 181, 204-208.	4.0	19
13	Adsorption of Li on Ni(110) surfaces at low and room temperature. <i>Surface Science</i> , 2000, 461, 219-230.	1.9	17
14	Wear behavior of nickel superalloy, CMSX-186. <i>Materials Letters</i> , 2003, 57, 4611-4616.	2.6	17
15	Complexity in Laboratory Seismology. , 2018, , 239-273.		17
16	Thermodynamic calculations of self- and hetero-diffusion parameters in germanium. <i>Materials Chemistry and Physics</i> , 2015, 163, 507-511.	4.0	14
17	The use of acoustic emissions technique in the monitoring of fracturing in concrete using soundless chemical demolition agent. <i>Frattura Ed Integrita Strutturale</i> , 2019, 13, 505-516.	0.9	14
18	Multifractal features in short-term time dynamics of ULF geomagnetic field measured in Crete, Greece. <i>Chaos, Solitons and Fractals</i> , 2004, 21, 273-282.	5.1	13

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19	Charge transport in diatomaceous earth studied by broadband dielectric spectroscopy. <i>Applied Clay Science</i> , 2013, 80-81, 226-235.	5.2	13
20	Adsorption and decomposition of C60 on Ni(110) surfaces. <i>Surface Science</i> , 2001, 488, 23-31.	1.9	12
21	Complex electrical conductivity measurements of a KTB amphibolite sample at elevated temperatures. <i>Materials Chemistry and Physics</i> , 2013, 139, 169-175.	4.0	12
22	An Overview of the Experimental Studies on the Electrical Conductivity of Major Minerals in the Upper Mantle and Transition Zone. <i>Materials</i> , 2020, 13, 408.	2.9	12
23	Non-extensive statistical analysis of acoustic emissions series recorded during the uniaxial compression of brittle rocks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 528, 121498.	2.6	11
24	Interaction of Na and Cl ₂ on WSe ₂ (0001) surfaces. <i>Surface Science</i> , 1998, 402-404, 37-41.	1.9	10
25	Mg diffusion in Si on a thermodynamic basis. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 12022-12027.	2.2	10
26	Investigation of oxygen self-diffusion in PuO ₂ by combining molecular dynamics with thermodynamic calculations. <i>RSC Advances</i> , 2016, 6, 103641-103649.	3.6	9
27	Complex Electrical Conductivity of Biotite and Muscovite Micas at Elevated Temperatures: A Comparative Study. <i>Materials</i> , 2020, 13, 3513.	2.9	9
28	Thermodynamic modelling of fast dopant diffusion in Si. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	8
29	Na and Cl ₂ Interaction on it and 2H ⁺ TaSe ₂ (0001) Surfaces. <i>Surface Review and Letters</i> , 1998, 05, 997-1005.	1.1	7
30	A SYNCHROTRON RADIATION STUDY OF THE FORMATION OF CuxSey AND NaxCuySez THIN FILMS ON Cu SUBSTRATES: Cl ₂ -INDUCED OUT-DIFFUSION OF Na. <i>Surface Review and Letters</i> , 2000, 07, 235-242.	1.1	7
31	Tin diffusion in germanium: a thermodynamic approach. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 9936-9940.	2.2	5
32	Robust Satellite Techniques for mapping thermal anomalies possibly related to seismic activity of March 2021, Thessaly Earthquakes.. <i>Bulletin of the Geological Society of Greece</i> , 0, 58, 105.	0.5	5
33	Adsorption of Li on C60-covered Ni(110) surfaces. <i>Surface Science</i> , 2002, 497, 70-80.	1.9	4
34	Synchrotron radiation studies of transition metal selenide thin-films formation on Ti, Mo and Cu substrates: in and out diffusion of Li. <i>Thin Solid Films</i> , 2001, 389, 307-314.	1.8	3
35	Direct Current Conductivity of Thin-Film Ionic Conductors from Analysis of Dielectric Spectroscopic Measurements in Time and Frequency Domains. <i>Journal of Physical Chemistry C</i> , 2016, 120, 21254-21262.	3.1	3
36	Synchrotron radiation studies on the growth of TSe ₂ (T=Ta, Ti) thin films on Ta substrates: intercalation and de-intercalation of Na. <i>Applied Surface Science</i> , 2000, 161, 347-354.	6.1	2

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37	An investigation of the $1/f^{\pm}$ long-range fluctuations in short-term time variability of ULF geomagnetic data. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2006, 11, 745-758.	3.3	2
38	Using acoustic emissions to enhance fracture toughness calculations for CCNBD marble specimens. <i>Frattura Ed Integrita Strutturale</i> , 2017, 11, 1-17.	0.9	2
39	ADSORPTION OF C60 ON LI-COVERED Ni(110) SURFACES. <i>Surface Review and Letters</i> , 2003, 10, 73-79.	1.1	1
40	Silicon Self-Diffusion in Stishovite: Calculations of Point Defect Parameters Based on the cBÎ© Thermodynamic Model. , 0, , .		1
41	A Synchrotron Radiation Study of the Formation of CuxSey and NaxCuySez Thin Films on Cu Substrates; Cl2-Induced Out-Diffusion of Na. <i>Surface Review and Letters</i> , 2000, 7, 235-242.	1.1	1