

Artur Benisek

List of Publications by Year in descending order

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73
all docs

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docs citations

73
times ranked

1086
citing authors

#	ARTICLE	IF	CITATIONS
1	A ternary feldspar-mixing model based on calorimetric data: development and application. Contributions To Mineralogy and Petrology, 2010, 160, 327-337.	3.1	126
2	Factors controlling the development of prism faces in granite zircons: a microprobe study. Contributions To Mineralogy and Petrology, 1993, 114, 441-451.	3.1	122
3	New developments in two-feldspar thermometry. American Mineralogist, 2004, 89, 1496-1504.	1.9	74
4	A sample-saving method for heat capacity measurements on powders using relaxation calorimetry. Cryogenics, 2011, 51, 460-464.	1.7	57
5	Plagioclase composition by Raman spectroscopy. Journal of Raman Spectroscopy, 2018, 49, 684-698.	2.5	41
6	The heat capacity of fayalite at high temperatures. American Mineralogist, 2012, 97, 657-660.	1.9	29
7	Thermodynamic mixing behavior of synthetic Ca-Tschermak ²⁺ -diopside pyroxene solid solutions: I. Volume and heat capacity of mixing. Physics and Chemistry of Minerals, 2007, 34, 733-746.	0.8	28
8	Excess heat capacity and entropy of mixing in high structural state plagioclase. American Mineralogist, 2009, 94, 1153-1161.	1.9	28
9	Excess heat capacity and entropy of mixing along the chlorapatite ²⁺ -fluorapatite binary join. Physics and Chemistry of Minerals, 2010, 37, 665-676.	0.8	27
10	Thermodynamic properties of Na ₂ Ti ₆ O ₁₃ and Na ₂ Ti ₃ O ₇ : electrochemical and calorimetric determination. Journal of Chemical Thermodynamics, 2003, 35, 1469-1487.	2.0	25
11	The uncertainty in determining the third law entropy by the heat-pulse calorimetric technique. Cryogenics, 2008, 48, 527-529.	1.7	25
12	Almandine: Lattice and non-lattice heat capacity behavior and standard thermodynamic properties. American Mineralogist, 2012, 97, 1771-1782.	1.9	25
13	A relationship to estimate the excess entropy of mixing: Application in silicate solid solutions and binary alloys. Journal of Alloys and Compounds, 2012, 527, 127-131.	5.5	25
14	The vibrational and configurational entropy of disordering in Cu ₃ Au. Journal of Alloys and Compounds, 2015, 632, 585-590.	5.5	25
15	Excess heat capacity and entropy of mixing in ternary series of high-structural-state feldspars. European Journal of Mineralogy, 2010, 22, 403-410.	1.3	23
16	Grossular: A crystal-chemical, calorimetric, and thermodynamic study. American Mineralogist, 2012, 97, 1299-1313.	1.9	22
17	The accuracy of standard enthalpies and entropies for phases of petrological interest derived from density-functional calculations. Contributions To Mineralogy and Petrology, 2018, 173, 90.	3.1	22
18	Experimentally Determined Standard Thermodynamic Properties of Synthetic MgSO ₄ ·4H ₂ O (Starkeyite) and MgSO ₄ ·3H ₂ O: A Revised Internally Consistent Thermodynamic Data Set for Magnesium Sulfate Hydrates. Astrobiology, 2012, 12, 1042-1054.	3.0	21

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19	Transport properties of La _{0.4} Sr _{0.6} CoO ₃ . <i>Solid State Ionics</i> , 2001, 141-142, 375-380.	2.7	20
20	Thermodynamics, crystal chemistry and structural complexity of the Fe(SO ₄)(OH)(H ₂ O) _x phases: Fe(SO ₄)(OH), metahohmannite, butlerite, parabutlerite, amarantite, hohmannite, and fibroferrite. <i>European Journal of Mineralogy</i> , 2018, 30, 259-275.	1.3	20
21	Enthalpies in (Na,Ca)- and (K,Ca)-feldspar binaries: a high-temperature solution calorimetric study. <i>Contributions To Mineralogy and Petrology</i> , 2003, 145, 119-129.	3.1	19
22	Thermodynamic mixing behavior of synthetic Ca-Tschermak diopside pyroxene solid solutions: II. Heat of mixing and activity-composition relationships. <i>Physics and Chemistry of Minerals</i> , 2007, 34, 747-755.	0.8	18
23	Thermodynamic mixing behavior of synthetic Ca-Tschermak diopside pyroxene solid solutions: III. An analysis of IR line broadening and heat of mixing behavior. <i>Physics and Chemistry of Minerals</i> , 2008, 35, 399-407.	0.8	17
24	Thermodynamic behavior and properties of katoite (hydrogrossular): A calorimetric study. <i>American Mineralogist</i> , 2012, 97, 1252-1255.	1.9	17
25	Arrhenius Behavior of the Bulk Na-Ion Conductivity in Na ₃ Sc ₂ (PO ₄) ₃ Single Crystals Observed by Microcontact Impedance Spectroscopy. <i>Chemistry of Materials</i> , 2018, 30, 1776-1781.	6.7	16
26	Heat capacity, entropy and phase equilibria of stishovite. <i>Physics and Chemistry of Minerals</i> , 2012, 39, 153-162.	0.8	15
27	Heat capacities of Tschermak substituted Fe-biotite. <i>Contributions To Mineralogy and Petrology</i> , 1999, 135, 53-61.	3.1	14
28	The heat capacity of two natural chlorite group minerals derived from differential scanning calorimetry. <i>Physics and Chemistry of Minerals</i> , 2001, 28, 332-336.	0.8	14
29	Thermodynamic properties of tooeleite, Fe ₆₃₊ (As ₃₊ O ₃) ₄ (SO ₄)(OH) ₄ ·4H ₂ O. <i>Chemie Der Erde</i> , 2016, 76, 419-428.	2.0	14
30	Excess heat capacity and entropy of mixing in the high-structural state (K,Ca)-feldspar binary. <i>Physics and Chemistry of Minerals</i> , 2010, 37, 209-218.	0.8	13
31	Activity-composition relationship in Tschermak's substituted Fe biotites at 700°C, 2 kbar. <i>Contributions To Mineralogy and Petrology</i> , 1996, 125, 85-99.	3.1	12
32	On the nature of the excess heat capacity of mixing. <i>Physics and Chemistry of Minerals</i> , 2011, 38, 185-191.	0.8	12
33	Heat capacity and entropy of rutile and TiO ₂ II: Thermodynamic calculation of rutile-TiO ₂ II transition boundary. <i>Physics of the Earth and Planetary Interiors</i> , 2014, 226, 39-47.	1.9	12
34	Raman spectroscopic insights into the glass transition of poly(methyl methacrylate). <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 1649-1665.	2.8	12
35	Thermochemistry of the alkali feldspars: Calorimetric study of the entropy relations in the low albite-low microcline series. <i>American Mineralogist</i> , 2014, 99, 76-83.	1.9	11
36	Thermodynamic mixing properties and behavior of almandine-spessartine solid solutions. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 125, 210-224.	3.9	10

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37	The stability of annite+quartz: reversed experimental data for the reaction $2 \text{ annite} + 3 \text{ quartz} = 2 \text{ sanidine} + 3 \text{ fayalite} + 2 \text{ H}_2\text{O}$. Contributions To Mineralogy and Petrology, 1995, 121, 380-387.	3.1	9
38	Heat capacity and entropy of low structural state plagioclases. Physics and Chemistry of Minerals, 2013, 40, 167-173.	0.8	9
39	First-principles investigation of the lattice vibrations in the alkali feldspar solid solution. Physics and Chemistry of Minerals, 2015, 42, 243-249.	0.8	9
40	Thermodynamics, stability, crystal structure, and phase relations among euchroite, $\text{Cu}_2(\text{AsO}_4)(\text{OH}) \cdot 3\text{H}_2\text{O}$, and related minerals. European Journal of Mineralogy, 2017, 29, 5-16.	1.3	9
41	Electrochemical device for the precise adjustment of oxygen partial pressures in a gas stream. Solid State Ionics, 2004, 170, 99-104.	2.7	8
42	Heat capacity and third-law entropy of kaersutite, pargasite, fluoropargasite, tremolite and fluorotremolite. European Journal of Mineralogy, 2010, 22, 319-331.	1.3	8
43	Thermodynamic properties of $\text{FeAsO}_4 \cdot 0.75\text{H}_2\text{O}$ - a more favorable disposable product of low As solubility. Hydrometallurgy, 2016, 164, 136-140.	4.3	8
44	Thermodynamic properties of mansfieldite ($\text{AlAsO}_4 \cdot 2\text{H}_2\text{O}$), angelellite ($\text{Fe}_4(\text{AsO}_4)_2\text{O}_3$) and kamarizaite ($\text{Fe}_3(\text{AsO}_4)_2(\text{OH}) \cdot 3\text{H}_2\text{O}$). Mineralogical Magazine, 2018, 82, 1333-1354.	1.4	8
45	Heat capacity, entropy, and phase equilibria of dmitryivanovite. Physics and Chemistry of Minerals, 2012, 39, 259-267.	0.8	7
46	Calorimetric study of the entropy relation in the $\text{NaCl} \text{---} \text{KCl}$ system. Journal of Chemical Thermodynamics, 2013, 62, 231-235.	2.0	7
47	Thermodynamic mixing properties and behavior of grossular-spessartine, $(\text{Ca Mn})_3\text{Al}_2\text{Si}_3\text{O}_{12}$, solid solutions. Geochimica Et Cosmochimica Acta, 2014, 141, 294-302.	3.9	7
48	Furfuryl Alcohol and Lactic Acid Blends: Homo- or Co-Polymerization?. Polymers, 2019, 11, 1533.	4.5	7
49	Thermodynamic properties, crystal structure and phase relations of pushcharovskite $[\text{Cu}(\text{AsO}_3)_2(\text{OH})(\text{H}_2\text{O})] \cdot 0.5\text{H}_2\text{O}$, geminite $[\text{Cu}(\text{AsO}_3)_2(\text{OH})(\text{H}_2\text{O})]$ and lironite $[\text{Cu}(\text{AsO}_3)_2(\text{OH})(\text{H}_2\text{O})]$.	1.3	7
50	Control of Oxygen Partial Pressure by means of H_2 or CO Gas Mixtures. Journal of the Electrochemical Society, 2005, 152, H157.	2.9	6
51	The Structure and Thermochemistry of Three Fe-Mg Chlorites. Clays and Clay Minerals, 2015, 63, 351-367.	1.3	6
52	P21/c-C2/c phase transition and mixing properties of the $(\text{Li,Na})\text{FeGe}_2\text{O}_6$ solid solution: A calorimetric and thermodynamic study. Journal of Chemical Thermodynamics, 2018, 120, 123-140.	2.0	6
53	The vibrational and configurational entropy of β -brass. Journal of Chemical Thermodynamics, 2014, 71, 126-132.	2.0	5
54	Standard-state thermodynamic properties of annite, $\text{KFe}_3[(\text{OH})_2\text{AlSi}_3\text{O}_{10}]$, based on new calorimetric measurements. European Journal of Mineralogy, 2015, 27, 603-616.	1.3	5

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55	Thermodynamics and crystal chemistry of rhomboclase, $(\text{H}_{5/2}\text{O}_2)\text{Fe}(\text{SO}_4)_2 \cdot 2\text{H}_2\text{O}$, and the phase $(\text{H}_3\text{O})\text{Fe}(\text{SO}_4)_2$ and implications for acid mine drainage. <i>American Mineralogist</i> , 2017, 102, 643-654.	1.9	5
56	Thermodynamics of disordering in Au_3Cu . <i>Journal of Alloys and Compounds</i> , 2018, 735, 1344-1349.	5.5	5
57	Vibrational entropy of disorder in Cu_3Au with different degrees of short-range order. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 19441-19446.	2.8	5
58	A new activity model for Mg-Al biotites determined through an integrated approach. <i>Contributions To Mineralogy and Petrology</i> , 2019, 174, 76.	3.1	5
59	Thermodynamic properties of calcium alkali phosphates $\text{Ca}(\text{Na,K})\text{PO}_4$. <i>Journal of Materials Science</i> , 2020, 55, 8477-8490.	3.7	5
60	Prediction and observation of formation of Ca-Mg arsenates in acidic and alkaline fluids: Thermodynamic properties and mineral assemblages at Jáchymov, Czech Republic and Rotgalden, Austria. <i>Chemical Geology</i> , 2021, 559, 119922.	3.3	5
61	Annite stability revised: hydrogen-sensor data for the reaction $\text{annite} = \text{sanidine} + \text{magnetite} + \text{H}_2$: additional results and reply to Chou. <i>Contributions To Mineralogy and Petrology</i> , 1997, 128, 306-311.	3.1	4
62	Heat capacity measurements of $\text{CaAlSiO}_4\text{F}$ from 5 to 850 K and its standard entropy. <i>American Mineralogist</i> , 2018, 103, 1165-1168.	1.9	3
63	Excess enthalpy of mixing of mineral solid solutions derived from density-functional calculations. <i>Physics and Chemistry of Minerals</i> , 2020, 47, 15.	0.8	3
64	Chapmanite $[\text{Fe}_{2/3}\text{Sb}(\text{Si}_2\text{O}_5)_2(\text{OH})]$: thermodynamic properties and formation in low-temperature environments. <i>European Journal of Mineralogy</i> , 2021, 33, 357-371.	1.3	3
65	The assimilation of felsic xenoliths in kimberlites: insights into temperature and volatiles during kimberlite emplacement. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	3.1	3
66	Thermodynamic data of belite polymorphs. <i>Cement and Concrete Research</i> , 2022, 152, 106621.	11.0	3
67	Crystal chemistry, Mössbauer spectroscopy, and thermodynamic properties of botryogen. <i>Neues Jahrbuch Fur Mineralogie, Abhandlungen</i> , 2016, 193, 147-159.	0.3	2
68	A new activity model for Fe-Mg-Al biotites: Applications in the $\text{K}_2\text{O}-\text{FeO}-\text{MgO}-\text{Al}_2\text{O}_3-\text{SiO}_2-\text{H}_2\text{O}$ (KFMASH) system. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	3.1	2
69	Excess heat capacity and entropy of mixing along the hydroxyapatite-chlorapatite and hydroxyapatite-fluorapatite binaries. <i>Physics and Chemistry of Minerals</i> , 2021, 48, 44.	0.8	2
70	Study on the structural phase transitions in NaSICON-type compounds using $\text{Ag}_3\text{Sc}_2(\text{PO}_4)_3$ as a model system. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2021, 77, 10-22.	1.1	2
71	Stability and calorimetric studies of silico-ferrites of calcium aluminum and magnesium. <i>Journal of the American Ceramic Society</i> , 2018, 101, 4193-4202.	3.8	1
72	A new activity model for Fe-Mg-Al biotites: Derivation and calibration of mixing parameters. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	3.1	0