

Christomir Christov

List of Publications by Year in descending order

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55
papers

1,317
citations

304743

22
h-index

377865

34
g-index

55
all docs

55
docs citations

55
times ranked

349
citing authors

#	ARTICLE	IF	CITATIONS
1	A chemical equilibrium model of solution behavior and solubility in the H-Na-K-Ca-OH-Cl-HSO ₄ -SO ₄ -H ₂ O system to high concentration and temperature. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 3717-3739.	3.9	110
2	Chemical equilibrium model of solution behavior and solubility in the H-Na-K-OH-Cl-HSO ₄ -SO ₄ -H ₂ O system to high concentration and temperature. Associate editor: D. J. Wesolowski. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 1309-1331.	3.9	107
3	An isopiestic study of aqueous NaBr and KBr at 50 Å°C: Chemical equilibrium model of solution behavior and solubility in the NaBr-H ₂ O, KBr-H ₂ O and Na-K-Br-H ₂ O systems to high concentration and temperature. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 3557-3569.	3.9	79
4	Thermodynamics of formation of double salts and mixed crystals from aqueous solutions. <i>Journal of Chemical Thermodynamics</i> , 2005, 37, 1036-1060.	2.0	76
5	Study of bromide salts solubility in the (m1KBr+m2CaBr ₂)(aq) system at T=323.15K. Thermodynamic model of solution behaviour and (solid+liquid) equilibria in the ternaries (m1KBr+m2CaBr ₂)(aq), and (m1MgBr ₂ +m2CaBr ₂)(aq), and in the quinary (Na+K+Mg+Ca+Br+H ₂ O) systems to high concentration and temperature. <i>Journal of Chemical Thermodynamics</i> , 2012, 55, 7-22.	2.0	56
6	Study of bromide salts solubility in the (m1NaBr +m2MgBr ₂)(aq) system at T= 323.15 K. Thermodynamic model of solution behavior and (solid + liquid) equilibria in the (Na + K + Mg + Br + H ₂ O) system to high concentration and temperature. <i>Journal of Chemical Thermodynamics</i> , 2012, 47, 335-340.	2.0	54
7	Isopiestic investigation of the osmotic coefficients of MgBr ₂ (aq) and study of bromide salts solubility in the (m1KBr+m2MgBr ₂)(aq) system at T=323.15K. Thermodynamic model of solution behaviour and (solid+liquid) equilibria in the MgBr ₂ (aq), and (m1KBr+m2MgBr ₂)(aq) systems to high concentration and temperature. <i>Journal of Chemical Thermodynamics</i> , 2011, 43, 344-353.	2.0	52
8	Isopiestic Determination of the Osmotic Coefficients of an Aqueous MgCl ₂ + CaCl ₂ Mixed Solution at (25 and 50) Å°C. Chemical Equilibrium Model of Solution Behavior and Solubility in the MgCl ₂ + H ₂ O and MgCl ₂ + CaCl ₂ + H ₂ O Systems to High Concentration at (25 and 50) Å°C. <i>Journal of Chemical & Engineering Data</i> , 2009, 54, 627-635.	1.9	49
9	Temperature variable chemical model of bromide-sulfate solution interaction parameters and solid-liquid equilibria in the Na-K-Ca-Br-SO ₄ -H ₂ O system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2012, 36, 71-81.	1.6	48
10	Isopiestic investigation of the osmotic coefficients of aqueous CaBr ₂ and study of bromide salt solubility in the NaBr-CaBr ₂ -H ₂ O system at 50 Å°C : Thermodynamic model of solution behavior and solid-liquid equilibria in the CaBr ₂ -H ₂ O, and NaBr-CaBr ₂ -H ₂ O systems to high concentration and temperature. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2011, 35, 42-53.	1.6	46
11	Pitzer ion-interaction parameters for Fe(II) and Fe(III) in the quinary {Na+K+Mg+Cl+SO ₄ +H ₂ O} system at T=298.15 K. <i>Journal of Chemical Thermodynamics</i> , 2004, 36, 223-235.	2.0	40
12	Thermodynamic Modeling of Aqueous Aluminum Chemistry and Solid-Liquid Equilibria to High Solution Concentration and Temperature. I. The Acidic H-Al-Na-K-Cl-H ₂ O System from 0 to 100 Å°C. <i>Journal of Solution Chemistry</i> , 2007, 36, 1495-1523.	1.2	39
13	Thermodynamics of the aqueous sodium and magnesium bromide system at the temperatures 273.15 K and 298.15 K. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 1996, 20, 501-509.	1.6	34
14	Study of (m1LiX+m2CaX ₂)(aq) wheremidenotes molality andXdenotes Cl, or Br at the temperature 298.15 K. <i>Journal of Chemical Thermodynamics</i> , 2000, 32, 1505-1512.	2.0	34
15	Thermodynamic study of the K ⁺ -Mg ²⁺ -Al ³⁺ -Cl ⁻ -SO ₄ ²⁻ -H ₂ O system at the temperature 298.15 K. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2001, 25, 445-454.	1.6	33
16	Chemical Equilibrium Model of Solution Behavior and Bishofite (MgCl ₂ ·6H ₂ O(cr)) and Hydrogen-Carnallite (HCl·MgCl ₂ ·7H ₂ O(cr)) Solubility in the MgCl ₂ + H ₂ O and HCl·MgCl ₂ + H ₂ O Systems to High Acid Concentration at (0 to 100) Å°C. <i>Journal of Chemical & Engineering Data</i> , 2009, 54, 2599-2608.	1.9	32
17	Thermodynamic study of the Na-Cu-Cl-SO ₄ -H ₂ O system at the temperature 298.15 K. <i>Journal of Chemical Thermodynamics</i> , 2000, 32, 285-295.	2.0	28
18	Thermodynamics of formation of ammonium, sodium and potassium alums and chromium alums. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2002, 26, 85-94.	1.6	28

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19	Thermodynamic study of quaternary systems with participation of ammonium and sodium alums and chromium alums. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2002, 26, 341-352.	1.6	28
20	Thermodynamic study of $(b_1\text{LiBr} + b_2\text{MgBr}_2)(\text{aq})$, where b denotes molality, at the temperature 348.15K. Journal of Chemical Thermodynamics, 1995, 27, 1267-1273.	2.0	26
21	A Pitzer Parametrization To Predict Solution Properties and Salt Solubility in the $\text{H}_2\text{O}-\text{NaNO}_3-\text{CaMg}(\text{NO}_3)_3-\text{H}_2\text{O}$ System at 298.15 K. Journal of Chemical & Engineering Data, 2018, 63, 787-800.	1.9	26
22	Thermodynamic study of the $\text{KCl}-\text{K}_2\text{SO}_4-\text{K}_2\text{Cr}_2\text{O}_7-\text{H}_2\text{O}$ system at the temperature 298.15 K. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 1998, 22, 449-457.	1.6	24
23	Thermodynamic study of $(b_1\text{RbCl} + b_2\text{MeCl}_2)(\text{aq})$, where b denotes molality and Me denotes Mn, Co, Ni, or Cu, at the temperature 298.15 K, on the basis of Pitzer's model. Journal of Chemical Thermodynamics, 1994, 26, 1071-1080.	2.0	22
24	Study of $(m_1\text{KCl} + m_2\text{MeCl}_2)(\text{aq})$ and $(m_1\text{K}_2\text{SO}_4 + m_2\text{MeSO}_4)(\text{aq})$ where m denotes molality and Me denotes Cu, or Ni at the temperature 298.15 K. Journal of Chemical Thermodynamics, 1999, 31, 71-83.	2.0	20
25	Thermodynamic study of the $\text{NaCl}-\text{Na}_2\text{SO}_4-\text{Na}_2\text{Cr}_2\text{O}_7-\text{H}_2\text{O}$ system at the temperature 298.15 K. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2001, 25, 11-17.	1.6	19
26	A Simplified Model for Calculation of the Gibbs Energy of Mixing in Crystals: Thermodynamic Theory, Restrictions and Applicability. Collection of Czechoslovak Chemical Communications, 1996, 61, 1585-1599.	1.0	17
27	Thermodynamic study of aqueous sodium and potassium chloride and chromate systems at the temperature 298.15 K. Journal of Chemical Thermodynamics, 2002, 34, 987-994.	2.0	13
28	Thermodynamic study of $(m_1\text{Cs}_2\text{SeO}_4 + m_2\text{NiSeO}_4)(\text{aq})$ where m denotes molality at $T = 298.15$ K. Journal of Chemical Thermodynamics, 2001, 33, 1073-1080.	2.0	12
29	Thermodynamic study of the co-crystallization of ammonium, sodium and potassium alums and chromium alums. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2003, 27, 153-160.	1.6	12
30	Modeling the Osmotic and Activity Coefficients of Lanthanide Nitrate Aqueous Solutions at 298.15 K from Low Molalities to Supersaturation. Journal of Chemical & Engineering Data, 2019, 64, 345-359.	1.9	12
31	Thermodynamics of Formation of Double Salts in the Systems $\text{CsCl} \cdot \text{MCl}_2 \cdot \text{H}_2\text{O}$ where M Denotes Mn, Co, or Cu. Zeitschrift Fur Physikalische Chemie, 1996, 194, 43-50.	2.8	10
32	Thermodynamic Study of $\text{Na}_2\text{Cr}_2\text{O}_7(\text{aq})$ at 25 °C. Collection of Czechoslovak Chemical Communications, 1999, 64, 595-599.	1.0	10
33	Thermodynamics of formation of double salts $\text{M}_2\text{SO}_4 \cdot \text{M}'_2\text{SO}_4 \cdot 6\text{H}_2\text{O}$ and $\text{M}_2\text{SeO}_4 \cdot \text{M}'_2\text{SeO}_4 \cdot 6\text{H}_2\text{O}$ where M denotes Rb, or Cs and M' denote Co, Ni, or Zn. Journal of Chemical Thermodynamics, 2003, 35, 1775-1792.	2.0	10
34	Study of the Conversion of CaSO_4 to CaCO_3 within the $\text{CaSO}_4 + \text{Na}_2\text{CO}_3 = \text{CaCO}_3 + \text{Na}_2\text{SO}_4$ Four-Component Water-Salt System. Collection of Czechoslovak Chemical Communications, 1995, 60, 2107-2111.	1.0	9
35	Thermodynamic study of the co-crystallization of $2\text{RbCl} \cdot \text{NiCl}_2 \cdot 2\text{H}_2\text{O}$ and $2\text{RbCl} \cdot \text{MnCl}_2 \cdot 2\text{H}_2\text{O}$, at the temperature 298.15 K. Journal of Chemical Thermodynamics, 1996, 28, 743-752.	2.0	9
36	Thermodynamics of the formation of solid solutions of the type $(\text{Me}, \text{Me}')_2\text{SeO}_4 \cdot 6\text{H}_2\text{O}$ where Me and Me' denote Mg, Co, Ni, or Zn from aqueous solutions. Journal of Chemical Thermodynamics, 1997, 29, 481-489.	2.0	9

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37	Thermodynamic study of the aqueous sodium, potassium, and chromium chloride systems at the temperature 298.15K. Journal of Chemical Thermodynamics, 2003, 35, 909-917.	2.0	9
38	Discontinuities in the mixed-crystal series of isostructural carnallite-type double salts. Journal of Chemical Thermodynamics, 1995, 27, 821-828.	2.0	8
39	Thermodynamic Study of the CuCl ₂ -MCl ₂ -H ₂ O Systems (M = Mg, Co) at 298.15 K. Collection of Czechoslovak Chemical Communications, 1996, 61, 507-511.	1.0	7
40	Modeling the Solution Properties and Mineral "Solution Equilibria in Radionuclide-Bearing Aqueous Nitrate Systems: Application to Binary and Ternary Systems Containing U, Th, or Lanthanides at 25 Å°C. Journal of Chemical & Engineering Data, 2020, 65, 3613-3626.	1.9	7
41	Pitzer Model Based Study of CsX-NiX ₂ -H ₂ O (X = Cl, Br) Systems at 298.15 K. Collection of Czechoslovak Chemical Communications, 1996, 61, 501-506.	1.0	7
42	Thermodynamic study of (m ₁ Na ₂ SeO ₄ +m ₂ NiSeO ₄)(aq) wheremdenotes molality at the temperature 298.15 K. Journal of Chemical Thermodynamics, 1998, 30, 73-79.	2.0	6
43	Investigation of the Aqueous Lithium and Nickel Selenate System. Zeitschrift Fur Physikalische Chemie, 1998, 203, 87-93.	2.8	6
44	Thermodynamic Study on Aqueous Solutionsof (NH ₄) ₂ SeO ₄ and K ₂ SeO ₄ at 298.15â€‰K. Monatshefte FÃ¼r Chemie, 1999, 130, 1061-1065.	1.8	6
45	Thermodynamic study of aqueous rubidium and cobalt selenate system at the temperature 298.15K. Journal of Chemical Thermodynamics, 2003, 35, 689-697.	2.0	5
46	Isomorphic Co-Crystallization of Ammonium and Rubidium Bromocarnallites. Collection of Czechoslovak Chemical Communications, 1994, 59, 1815-1819.	1.0	5
47	Isodimorphic co-crystallization of isostructural ammonium chloro- and bromo-carnallites. Journal of Chemical Thermodynamics, 1995, 27, 435-441.	2.0	4
48	Effect of Temperature on the Solubility Diagrams of Ammonium Bromcarnallite. Collection of Czechoslovak Chemical Communications, 1994, 59, 1620-1623.	1.0	3
49	Chemical and geochemical modeling. Thermodynamic models for binary fluoride systems from low to very high concentration (> 35 m) at 298.15 K. Acta Scientifica Naturalis, 2021, 8, 1-15.	0.1	3

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55	Thermodynamics of Formation of Double Salts and Mixed Crystals from Aqueous Solutions. ChemInform, 2005, 36, no.	0.0	0