# Konstantin V Chudnenko

List of Publications by Year
in descending order



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|---|---|---|---|
| 57 papers | 637 citations | 840119 11 h-index | 610482 24 g-index |
| 59 all docs | 59 docs citations | 59 times ranked | 441 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | GEM-Selektor geochemical modeling package: revised algorithm and GEMS3K numerical kernel for coupled simulation codes. Computational Geosciences, 2013, 17, 1. | 1.2 | 148 |
| 2 | The convex programming minimization of five thermodynamic potentials other than Gibbs energy in geochemical modeling. Numerische Mathematik, 2002, 302, 281-311. | 0.7 | 45 |
| 3 | Thermodynamic properties of solid solutions in the system Ag2Sâ€“Ag2Se. Thermochimica Acta, 2014, 575, 90-96. | 1.2 | 25 |
| 4 | Thermodynamic properties of solid solutions in the Agâ€“Auâ€“Cu system. Russian Geology and Geophysics, 2014, 55, 349-360. | 0.3 | 19 |
| 5 | Physicochemical interaction in the system Si-Al-Ti-Ca-Mg-Fe-Na-K-O with the consideration of the formation of solid solutions. Russian Journal of Inorganic Chemistry, 2012, 57, 854-857. | 0.3 | 18 |
| 6 | Thermodynamic modeling of native formation of Auâ€“Agâ€“Cuâ€“Hg solid solutions. Applied Geochemistry, 2016, 66, 88-100. | 1.4 | 18 |
| 7 | Thermodynamic properties of Auâ€“Hg binary solid solution. Thermochimica Acta, 2013, 566, 175-180. | 1.2 | 14 |
| 8 | Extrapolation of thermodynamic functions in calculation of phase equilibria by the Gibbs energy minimization method. Russian Journal of Inorganic Chemistry, 2013, 58, 1197-1202. | 0.3 | 14 |
| 9 | Physicochemical model for the genesis of Cu-Ag-Au-Hg solid solutions and intermetallics in the rodingites of the Zolotaya Gora gold deposit (Urals, Russia). Ore Geology Reviews, 2018, 93, 81-97. | 1.1 | 14 |
| 10 | Physicochemical modeling of formation of Agâ€“Auâ€“Hg solid solutions: Kyuchyus deposit (Yakutia,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf | 1.4 | 12 |
| 11 | Thermodynamic properties of Agâ€“Auâ€“Hg solid solutions. Thermochimica Acta, 2013, 572, 65-70. | 1.2 | 11 |
| 12 | Specifics of representation of thermodynamic functions in the method of thermodynamic potential minimization. Russian Journal of Inorganic Chemistry, 2013, 58, 824-829. | 0.3 | 10 |
| 13 | Physicochemical models of formation of goldâ€“silver mineralization at the Rogovik deposit (Northeastern Russia). Ore Geology Reviews, 2017, 91, 1-20. | 1.1 | 10 |
| 14 | Methods for Calculating the Critical Constants of Hydrocarbons (Using the n-Alkane Series as) Tj ETQq0 0 0 rgBT /Overlock 10 Tf | 1.0 | 9 |
| 15 | Method of approximation of dependence of isobaric heat capacity on temperature. Russian Journal of Inorganic Chemistry, 2013, 58, 1511-1517. | 0.3 | 8 |
| 16 | Monitoring and physical-chemical modeling of conditions of natural surface and underground waters forming in the Kola North. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2012, 47, 657-668. | 0.9 | 7 |
| 17 | Formation of nitrogen-rich hot springs: Modeling physicochemical interactions in a water-granite system. Geochemistry International, 2013, 51, 981-993. | 0.2 | 7 |
| 18 | A new model of thermal and physicochemical dynamics for volcanogenic epithermal deposits (Asacha) Tj ETQq0 0 0 rgBT /Overlock 10 T | 0.2 | 6 |

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|---|---|---|---|
| 19 | The physicochemical dynamics of evolution of fluid above asthenosphere systems beneath the Siberian Platform. Russian Geology and Geophysics, 2010, 51, 1037-1058. | 0.3 | 6 |
| 20 | The unified method for computing thermodynamic properties of natural zeolites based on their crystallochemical formulas. Russian Journal of Inorganic Chemistry, 2016, 61, 1003-1012. | 0.3 | 6 |
| 21 | Physicochemical Model of Formation of Gold-Bearing Magnetite-Chlorite-Carbonate Rocks at the Karabash Ultramafic Massif (Southern Urals, Russia). Minerals (Basel, Switzerland), 2018, 8, 306. | 0.8 | 6 |
| 22 | Experience of modeling the garnet + orthopyroxene + spinel + plagioclase reaction by the method of thermodynamic potential minimization. Doklady Earth Sciences, 2007, 415, 773-776. | 0.2 | 5 |
| 23 | Metasomatic zoning of subcratonic lithosphere in Siberia: physicochemical modeling. Russian Geology and Geophysics, 2009, 50, 1107-1118. | 0.3 | 5 |
| 24 | Physicochemical simulation of the evolution of small lakes in a cold climate. Geochemistry International, 2011, 49, 827-837. | 0.2 | 5 |
| 25 | Simulation of nonisothermal metasomatism of peridotite from mantle wedge beneath the Avacha group of volcanoes (Kamchatka). Russian Geology and Geophysics, 2017, 58, 551-570. | 0.3 | 5 |
| 26 | GEOLOGICAL FACTORS AND PHYSICOCHEMICAL PROCESSES OF GROUNDWATER FORMATION IN THE TUNKA DEPRESSION. Geodinamika I Tektonofizika, 2018, 9, 221-248. | 0.3 | 5 |
| 27 | Physicochemical modeling of precipitating and dissolving of gypsum in chloride solutions. Russian Journal of Inorganic Chemistry, 2006, 51, 823-828. | 0.3 | 4 |
| 28 | Estimation of the heat capacity of individual substances on the basis of experimental enthalpy increments. Russian Journal of Inorganic Chemistry, 2013, 58, 1079-1084. | 0.3 | 4 |
| 29 | Genesis of garnet-bearing rocks at the Berezitovoe deposit, Upper Amur Region, Russia. Geology of Ore Deposits, 2014, 56, 15-34. | 0.2 | 4 |
| 30 | A study of acidic aluminum-containing solutions through modeling physicochemical equilibria by the thermodynamic potential minimization method. Russian Journal of Inorganic Chemistry, 2015, 60, 1427-1431. | 0.3 | 4 |
| 31 | Calculation of the standard thermodynamic potentials of aluminum sulfates and basic aluminum sulfates. Russian Journal of Inorganic Chemistry, 2015, 60, 950-957. | 0.3 | 4 |
| 32 | The physicochemical dynamics of carbonatization of the rocks of lithospheric mantle beneath the Siberian Platform. Russian Geology and Geophysics, 2015, 56, 696-708. | 0.3 | 3 |
| 33 | Formation of Au-Bearing Antigorite Serpentinites and Magnetite Ores at the Massif of Ophiolite Ultramafic Rocks: Thermodynamic Modeling. Minerals (Basel, Switzerland), 2019, 9, 758. | 0.8 | 3 |
| 34 | Thermodynamic Properties of Components in the Agâ€“Auâ€“Pd System. Russian Journal of Inorganic Chemistry, 2020, 65, 94-99. | 0.3 | 3 |
| 35 | MODELING THE FORMATION OF FLUORIDE NITROGEN-RICH HOT SPRINGS IN THE WATER â€“ CRYSTALLINE ROCK SYSTEM. Geodinamika I Tektonofizika, 2020, 11, 378-396. | 0.3 | 3 |
| 36 | Carbon disproportionation and fractionation in the carbon-water-gas system. Geochemistry International, 2006, 44, 736-739. | 0.2 | 2 |

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|---|---|---|---|
| 37 | Oxidation potential and the composition of metamorphic fluid as a solution to the inverse problem of convex programming. Geochemistry International, 2007, 45, 490-500. | 0.2 | 2 |
| 38 | Estimation of formation conditions of mineral megasystems from thermodynamic modeling. Doklady Earth Sciences, 2007, 416, 1132-1136. | 0.2 | 2 |
| 39 | Physicochemical crystallization conditions of Al-F sphene in metasomatic rocks with ore mineralization at the Berezitovoe Deposit. Geochemistry International, 2012, 50, 409-424. | 0.2 | 2 |
| 40 | Aluminum-fluorine sphene (Titanite) as an indicator of fluorine fluid. Doklady Earth Sciences, 2012, 442, 126-129. | 0.2 | 2 |
| 41 | Models of solid solutions for calculation of the mineral composition of Lake Baikal bottom sediments: A new approach to paleoclimatic reconstructions. Doklady Earth Sciences, 2015, 461, 364-367. | 0.2 | 2 |
| 42 | Hydrogeochemical processes of wastewater leakage purification from a thermal power plant. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2015, 50, 719-727. | 0.9 | 2 |
| 43 | Spinelâ€“Sapphirine Reaction Structures in the Garnet Metaultramafic Rocks of the Omolon Massif: Petrogenesis and Geological Interpretation (Northeast Asia). Russian Journal of Pacific Geology, 2018, 12, 174-189. | 0.1 | 2 |
| 44 | Water-carbon interaction under the conditions of complete and metastable thermodynamic equilibrium. Water Resources, 2008, 35, 435-445. | 0.3 | 1 |
| 45 | Thermodynamic model of the carbon emission in the atmosphere and climate change. Atmospheric and Oceanic Optics, 2013, 26, 50-56. | 0.6 | 1 |
| 46 | Physicochemical factors responsible for the low quality of natural waters of the Khibiny Massif. Doklady Chemistry, 2014, 458, 177-180. | 0.2 | 1 |
| 47 | Modeling and reduction of fluorine-containing losses in aluminum production. Theoretical Foundations of Chemical Engineering, 2017, 51, 587-593. | 0.2 | 1 |
| 48 | Dynamics of Metasomatic Transformation of the Rocks of the Lithospheric Mantle and Earthâ€™s Crust in Deep-Fault Zones Controlling the Siberian Platform Trap Magmatism. Russian Geology and Geophysics, 2019, 60, 833-844. | 0.3 | 1 |
| 49 | Modeling: The New Prospects of Studying Biological Systems as Illustrated by the Human Stomach. Lecture Notes in Earth System Sciences, 2020, , 863-877. | 0.5 | 1 |
| 50 | Dynamics of changes in the physical characteristics of a hydrothermally altered geological section according to nonisothermal physicochemical simulation (the Mutnovsky Volcano). Izvestiya, Physics of the Solid Earth, 2011, 47, 519-530. | 0.2 | 0 |
| 51 | Details of oil-water interaction in sea and fresh waters. Doklady Chemistry, 2013, 449, 114-117. | 0.2 | 0 |
| 52 | Thermodynamic model of greenhouse gas emission in the atmosphere and climate change. Atmospheric and Oceanic Optics, 2015, 28, 56-63. | 0.6 | 0 |
| 53 | Analysis of parageneses of metapelite gneisses of the Okhotsk granulite complex by minimization of Gibbs thermodynamic potential. Russian Geology and Geophysics, 2015, 56, 1133-1147. | 0.3 | 0 |
| 54 | Progress on the Use of an Information-Technology-Based Method in Low-Waste Technologies for Aluminum Production. Metallurgist, 2016, 60, 358-367. | 0.2 | 0 |

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|---|---|---|---|
| 55 | Possible physicochemical facies of wehrlitization of ultramafic rocks in the mantle wedge under volcanoes of the Kurilâ€“Kamchatka frontal zone. Doklady Earth Sciences, 2016, 467, 360-363. | 0.2 | 0 |
| 56 | Influence of Climate Changes in the Late Pleistoceneâ€“Holocene on Composition of Bottom Sediments of the Selengaâ€“Buguldeika Saddle, Lake Baikal. Stratigraphy and Geological Correlation, 2018, 26, 344-353. | 0.2 | 0 |
| 57 | The Equilibrium of Clay Minerals with Aqueous Solutions in Soils. Russian Geology and Geophysics, 2019, 60, 532-541. | 0.3 | 0 |