

**Публикации ИЭМ РАН, отраженные в Web of Science,
за 2016-2017 годы.**

2017 год.

1. Single-crystal Fe-bearing sphalerite: synthesis, lattice parameter, thermal expansion coefficient and microhardness

Автор: **Chareev, DA; Osadchii, VO**; Shiryayev, AA; **Nekrasov, AN**; **Koshelev, AV**; **Osadchii, EG**

PHYSICS AND CHEMISTRY OF MINERALS, Том: 44, Выпуск: 4, Стр.: 287-296

Published: APR 2017

Количество цитирований: 0

2. Pressure effect on magnetic susceptibility of SmS in the "black" phase

By: Panfilov, AS; Grechnev, GE; **Chareev, DA**; Polkovnikov, AA, Andreev, OV

JOURNAL OF ALLOYS AND COMPOUNDS, Volume: 695, Pages: 1647-1652.

Published: FEB 25 2017

Количество цитирований: 0

3. Synthesis and study of the chemical stability and strength of zirconium phosphates with the structure of langbeinite with imitators of high-level radioactive waste (HLRW)

By: Martynov, KV; Nekrasov, AN; Kotel'nikov, AR; Tananaev, IG

GLASS PHYSICS AND CHEMISTRY, Volume: 43, Issue: 1, Pages: 75-82.

Published: JAN 2017

Количество цитирований: 0

4. Structural features of quench products of melts in the chloride-carbonate-silicate systems revealed by vibrational and X-ray spectroscopy

By: **Safonov, OG**; Shiryayev, AA; Tyurnina, AV; Huthwelker, T

PETROLOGY, Volume: 25, Issue: 1, Pages: 23-41.

Published: JAN 2017

Количество цитирований: 0

2016 год.

1. Superconducting Properties of FeSeS Crystals for x up to 0.19

By: Ovchenkov, YA; **Chareev, DA**; Presnov, DE; Volkova, OS; Vasiliev, AN

JOURNAL OF LOW TEMPERATURE PHYSICS, Volume: 185, Issue: 5-6, Pages: 467-473.

Published: DEC 2016

Количество цитирований: 0

2. Dispersion of single-walled carbon nanotubes in dimethylacetamide and a dimethylacetamide-cholic acid mixture

By: Dyshin, AA; Eliseeva, OV; **Bondarenko, GV**; Kolker, AM; Kiselev, MG

RUSSIAN JOURNAL OF PHYSICAL CHEMISTRY A, Volume: 90, Issue: 12,

Pages: 2434-2439.

Published: DEC 2016

Количество цитирований: 0

3. Dry CO₂-CO fluid as an important potential deep Earth solvent

By: **Simakin, AG; Salova, TP**; Gabitov, RI; Isaenko, SI
GEOFLUIDS, Volume: 16, Issue: 5, Pages: 1043-1057.
Published: DEC 2016
Количество цитирований 0

4. Magmatic evolution of the material of the Earth's lower mantle: Stishovite paradox and origin of superdeep diamonds (Experiments at 24-26 GPa)

By: **Litvin, Yu. A.; Spivak, A. V.**; Dubrovinsky, L. S.
GEOCHEMISTRY INTERNATIONAL, Volume: 54, Issue: 11, Pages: 936-947.
Published: NOV 2016
Количество цитирований: 0

5. Gold transport during magmatic degassing: Model experiments

By: **Shmulovich, K. I.; Bukhtiyarov, P. G.; Persikov, E. S.**
GEOCHEMISTRY INTERNATIONAL, Volume: 54, Issue: 11, Pages: 979-988
Published: NOV 2016
Количество цитирований: 0

6. The effects of 10 to > 160 GPa shock on the magnetic properties of basalt and diabase

By: **Bezaeva, NS; Swanson-Hysell, NL; Tikoo, SM; Badyukov, DD; Kars, M; Egli, R; Chareev, DA; Fairchild, LM; Khakhalova, E; Strauss, BE.** and all.
GEOCHEMISTRY GEOPHYSICS GEOSYSTEMS, Volume: 17, Issue: 11, Pages: 4753-4771.
Published: NOV 2016
Количество цитирований: 0

7. Structural Features and Composition of Amber from Placers on the East Coast of Sakhalin Island

By: **Kononov, Valery V.; Smyshlyaeva, Olga P.; Zelenski, Mihael E.**
Edited by: **FrankKamenetskaya, OV; Panova, EG; Vlasov, DY**
Conference: 5th International Symposium on Biogenic-Abiogenic Interactions in Natural and Anthropogenic Systems Location: Saint Petersburg, RUSSIA Date: OCT 20-22, 2014
Sponsor(s): Saint Petersburg State Univ; Saint Petersburg Soc Naturalists
BIOGENIC-ABIOGENIC INTERACTIONS IN NATURAL AND ANTHROPOGENIC SYSTEMS, Pages: 97-107.
Published: 2016
Количество цитирований: 0

8. Indicator reactions of K and Na activities in the upper mantle: Natural mineral assemblages, experimental data, and thermodynamic modeling

By: **Safonov, O. G.; Butvina, V. G.**
GEOCHEMISTRY INTERNATIONAL, Volume: 54, Issue: 10, Pages: 858-872.
Published: OCT 2016
Количество цитирований: 0

9. Heat capacity and thermodynamic functions of sphalerite: Implication to sulfide solid-state galvanic cell measurements

By: **Gurevich, VM; Osadchii, VO; Polyakov, VB; Gavrichev, KS; Osadchii, EG**
THERMOCHIMICA ACTA, Volume: 641, Pages: 14-23.
Published: OCT 10 2016
Количество цитирований: 0

10. Highly Anisotropic and Twofold Symmetric Superconducting Gap in Nematically Ordered FeSe_{0.93}S_{0.07}
By: Xu, HC; Niu, XH; Xu, DF; Jiang, J; Yao, Q; Chen, QY; Song, Q; Abdel-Hafiez, M ; **Chareev, DA**; Vasiliev, AN at all/
PHYSICAL REVIEW LETTERS, Volume: 117, Issue: 15, Article Number: 157003
Published: OCT 7 2016,
Количество цитирований: 1
11. Fundamentals of the mantle carbonatite concept of diamond genesis
By: **Litvin, Yu. A.**; **Spivak, A. V.**; **Kuzyura, A. V.**
GEOCHEMISTRY INTERNATIONAL , Volume: 54, Issue: 10, Pages: 839-857.
Published: OCT 2016
Количество цитирований: 0
12. Effect of Aspartic Acid and Glycine on Calcite Growth
By: Montanari, G; **Lakshtanov, LZ**; Tobler, DJ; Dideriksen, K; Dalby, KN (Dalby, K. N.)¹¹; Bovet, N; Stipp, SLS
CRYSTAL GROWTH & DESIGN, Volume: 16, Issue: 9, Pages: 4813-4821.
Published: SEP 2016
Количество цитирований :1
13. Experimental study of physical and chemical melting conditions of rare-metal granites at the Voznesenka ore cluster, Primorye region
By: **Aksyuk, AM**; **Konyshev, AA**; **Korzhinskaya, VS**; **Shapovalov, YB**
DOKLADY EARTH SCIENCES, Volume: 470, Issue: 1, Pages: 921-923.
Published: SEP 2016
Количество цитирований: 0
14. MAGNETIC CHARACTERIZATION OF NON-IDEAL SINGLE-DOMAIN MONOCLINIC PYRRHOTITE AND ITS DEMAGNETIZATION UNDER HYDROSTATIC PRESSURE UP TO 2 GPa WITH IMPLICATIONS FOR IMPACT DEMAGNETIZATION.
By: **Chareev, DA** ; Bezaeva, NS ; Rochette, P; Kars, M; Gattacceca, J; Feinberg, JM/
METEORITICS & PLANETARY SCIENCE, Volume: 51, Pages: A201-A201.
Published: AUG 2016
Количество цитирований: 0
15. Magnetic characterization of non-ideal single-domain monoclinic pyrrhotite and its demagnetization under hydrostatic pressure up to 2 GPa with implications for impact demagnetization
By: Bezaeva, NS; **Chareev, DA**; Rochette, P; Kars, M; Gattacceca, J; Feinberg, JM, ; Sadykov, RA; Kuzina, DM; Axenov, SN
PHYSICS OF THE EARTH AND PLANETARY INTERIORS , Volume: 257, Pages: 79-90.
Published: AUG 2016
Количество цитирований: 2
16. A new mineral species ferricoronadite, Pb[Mn-6 (4+)(Fe³⁺, Mn³⁺)(2)]O-16: mineralogical characterization, crystal chemistry and physical properties
By: Chukanov, NV; Aksenov, SM; Jancev, S; Pekov, IV ; Gottlicher, J; Polekhovsky, YS; Rusakov, VS; Nelyubina, YV; **Van, KV**.
PHYSICS AND CHEMISTRY OF MINERALS , Volume: 43, Issue: 7, Pages: 503-514.
Published: JUL 2016
Количество цитирований: 0

17. Liquid immiscibility in the system NaF-H₂O and microlite solubility at 800A degrees C

By: **Redkin, A. F.; Kotova, N. P.; Shapovalov, Yu. B.**

DOKLADY EARTH SCIENCES Volume: 469, Issue: 1, Pages: 722-727.

Published: JUL 2016

Количество цитирований: 0

18. Synthesis of chalcogenide and pnictide crystals in salt melts using a steady-state temperature gradient

By: **Chareev, DA** ; Volkova, OS; Geringer, NV; Koshelev, AV, **Nekrasov, AN** ; **Osadchii, VO**; **Osadchii, EG**; Filimonova, ON

CRYSTALLOGRAPHY REPORTS, Volume: 61, Issue: 4, Pages: 682-691.

Published: JUL 2016

Количество цитирований: 0

19. Magnetic ground state of FeSe

By: Wang, QS; Shen, Y; Pan, BY; Zhang, XW; Ikeuchi, K; Iida, K; Christianson, AD; Walker, HC; Adroja, DT; Abdel-Hafiez, M; Chen, XJ; **Chareev, DA**; Vasiliev, AN ; Zhao, J

Nature Communications, Volume: 7, Article Number: 12182.

Published: JUL 2016.

Количество цитирований: 7

20. Oversolubility in the microvicinity of solid-solution interfaces

By: Bergonzi, I ; Mercury, L; Simon, P; Jamme, F; **Shmulovich, K.**

PHYSICAL CHEMISTRY CHEMICAL PHYSICS, Volume: 18, Issue: 22, Pages: 14874-14885.

Published: JUN 14 2016

Количество цитирований: 0

21. Impurity scattering effects on the superconducting properties and the tetragonal-to-orthorhombic phase transition in FeSe

By: Abdel-Hafiez, M; Pu, YJ; Brisbois, J; Peng, R; Feng, DL; **Chareev, DA**; Silhanek, AV; Krellner, C; Vasiliev, AN; Chen, XJ

PHYSICAL REVIEW B, Volume: 93, Issue: 22, Article Number: 224508.

Published: JUN 8 2016,

Количество цитирований: 4

22. General principles of the synthesis of chalcogenides and pnictides in salt melts using a steady-state temperature gradient

By: **Chareev, D. A.**

CRYSTALLOGRAPHY REPORTS Volume: 61 Issue: 3 Pages: 506-511.

Published: MAY 2016

Количество цитирований: 0

23. Experimental study of amphibole interaction with H₂O-NaCl Fluid at 900A degrees C, 500 MPa: toward granulite facies melting and mass transfer

By: **Khodorevskaya, L. I.; Aranovich, L. Ya.**

PETROLOGY Volume: 24 Issue: 3 Pages: 215-233.

Published: MAY 2016

Количество цитирований: 0

24. Experimental study of binary solid solutions in the system $\text{CaMgSi}_2\text{O}_6$ - $\text{CaFeSi}_2\text{O}_6$ - $\text{NaFeSi}_2\text{O}_6$ and Mg and Fe partition between $\text{Ca}(\text{Mg,Fe})\text{Si}_2\text{O}_6$ and $\text{K}(\text{Mg,Fe})_3(\text{AlSi}_3\text{O}_{10})[\text{OH}]_2$

By: **Kotel'nikov, AR**; Koval'skii, AM; **Suk, NI**; **Kotel'nikova, ZA**, **Petukhov, PA**; **Koval'skaya, TN**

RUSSIAN GEOLOGY AND GEOPHYSICS, Volume: 57, Issue: 4, Pages: 549-561.

Published: APR 2016

Количество цитирований: 0

25. Doubling of the critical temperature of FeSe observed in point contacts

By: Naidyuk, YG; Fuchs, G; **Chareev, DA**; Vasiliev, AN

PHYSICAL REVIEW B, Volume: 93, Issue: 14. Article Number: 144515.

Published: APR 28 2016

Количество цитирований: 0

26. Growing Negative Pressure in Dissolved Solutes: Raman Monitoring of Solvent-Pulling Effect

By: Mercury, L; **Shmulovich, KI**; Bergonzi, I; Canizares, A; Simon, P

JOURNAL OF PHYSICAL CHEMISTRY C, Volume: 120, Issue: 14, Pages: 7697-7704.

Published: APR 14 2016

Количество цитирований: 1

27. Nickeltsumorite, $\text{Pb}(\text{Ni,Fe}^{3+})_2(\text{AsO}_4)_2(\text{H}_2\text{O,OH})_2$, a new tsumcorite-group mineral from Lavrion, Greece

By: Pekov, IV; Chukanov, NV; **Varlamov, DA**; Belakovskiy, DI; Turchkova, AG.; Voudouris, P; Katerinopoulos, A; Magganas, A

MINERALOGICAL MAGAZINE, Volume: 80, Issue: 2, Pages: 337-346

Published: APR 2016

Количество цитирований: 0

28. Catalytic transformations of fluids

By: Barelko, VV; **Safonov, OG**; Bykova, NV; Bykov, LA; Dorokhov, VG; Kuznetsov, MV

HERALD OF THE RUSSIAN ACADEMY OF SCIENCES, Volume: 86, Issue: 2, Pages: 105-110.

Published: MAR 2016

Количество цитирований: 0

29. A multichannel electrochemical cell with glycerin-based liquid electrolyte

By: **Osadchii, E. G.**; **Korepanov, Ya. I.**; **Zhdanov, N. N.**

INSTRUMENTS AND EXPERIMENTAL TECHNIQUES, Volume: 59, Issue: 2, Pages: 302-304.

Published: MAR 2016

Количество цитирований: 0

30. Pressure dependence of upper critical fields in FeSe single crystals

By: Kang, JH; Jung, SG; Lee, S; Park, E; Lin, JY; **Chareev, DA**; Vasiliev, AN; Park, T

SUPERCONDUCTOR SCIENCE & TECHNOLOGY, Volume: 29, Issue: 3, Article Number: 035007.

Published: MAR 2016

Количество цитирований: 2

31. Local features of the crystal structure of superconducting iron chalcogenides Fe(TeSe)(1-delta)

By: Ivanov, VG; **Chareev, DA**; Ivanov, AA; Vasil'ev, AN; Menushenkov, AP /
PHYSICS OF THE SOLID STATE, Volume: 58, Issue: 3, Pages: 447-453.

Published: MAR 2016

Количество цитирований: 0

32. The novel arsenate Na₃Al₅O₂(OH)₂(AsO₄)₄: crystal structure and topological relations with minerals of the palermoite and carminite-attakolite families

By: Yakubovich, OV; **Kotelnikov, AR**; **Suk, NI**; Chukanov, NV

EUROPEAN JOURNAL OF MINERALOGY, Volume: 28, Issue: 1, Pages: 83-91

Published: MAR 2016

Количество цитирований: 0

33. Anomalous correlation effects and unique phase diagram of electron-doped FeSe revealed by photoemission spectroscopy

Автор: Wen, CHP; Xu, HC; Chen, C; Huang, ZC; Lou, X; Pu, YJ; Song, Q; Xie, BP ; Abdel-Hafiez, M; **Chareev, DA**

NATURE COMMUNICATIONS, Том: 7, Номер статьи: 10840

Опубликовано: MAR 2016

Количество цитирований: 17

34. Gold recycling and enrichment beneath volcanoes: A case study of Tolbachik, Kamchatka

Автор: **Zelenski, Michael**; Kamenetsky, Vadim S.; Hedenquist, Jeffrey

EARTH AND PLANETARY SCIENCE LETTERS, Том: 437, Стр.: 35-46

Опубликовано: MAR 1 2016

Количество цитирований: 1

35. Phase states of hydrous-hydrocarbon fluids at elevated and high temperatures and pressures: Study of the forms and maximal depths of oil occurrence in the Earth's interior

By: **Balitsky, V. S.**; Penteley, S. V.; Pironon, J.; et al.

DOKLADY EARTH SCIENCES Volume: 466, Issue: 2, Pages: 130-134.

Published: FEB 2016

Количество цитирований: 0

36. Features of the electron structure of FeTe compounds (vol 41, pg 990, 2015)

By: Grechnev, GE; Lyogenkaya, AA; Panfilov, AS; Logosha, AV; Kotlyar, OV ; Gnezdilov, VP; Makarova, IP; **Chareev, DA**; Mitrofanova, ES

LOW TEMPERATURE PHYSICS, Volume: 42, Issue: 2, Pages: 162-162.

Published: FEB 2016,

Количество цитирований 0

37. Strong interplay between stripe spin fluctuations, nematicity and superconductivity in FeSe

Автор: Wang, QS; Shen, Y; Pan, BY; Hao, YQ; Ma, MW; Zhou, F; Steffens, P (Steffens, P.)^[41]; Schmalzl, K; Forrest, TR; Abdel-Hafiez, M; Chen, XJ, **Chareev, DA**; Vasiliev, AN; Bourges, P; Sidis, Y; Cao, HB; Zhao, J

NATURE MATERIALS Том: 15 Выпуск: 2 Стр.: 159-+

Опубликовано: FEB 2016

Количество цитирований: 35

38. Experimental study of the influence of water on the buffer equilibrium of magnetite-wustite and wustite-metallic iron

Автор: **Bezmen, N. I.; Gorbachev, P. N.;** Martynenko, V. M.

PETROLOGY, Том: 24 Выпуск: 1, Стр.: 84-99.

Опубликовано: JAN 2016

Количество цитирований: 0

39. The long-range magnetic order and underlying spin model in shattuckite $\text{Cu}_5(\text{SiO}_3)_4(\text{OH})_2$

Автор: Koshelev, A. V.; Zvereva, E. A.; **Chareev, D. A.;** и др.

PHYSICS AND CHEMISTRY OF MINERALS, Том: 43 Выпуск: 1, Стр.: 43-49

Опубликовано: JAN 2016

Количество цитирований: 1

39. Analysis of nonlinear conductivity of point contacts on the base of FeSe in the normal and superconducting state

Автор: Naidyuk, YG; Gamayunova, NV; Kvitnitskaya, OE; Fuchs, G; **Chareev, DA.**

LOW TEMPERATURE PHYSICS, Том: 42, Выпуск: 1, Стр.: 31-35.

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