Dmitriy A. Chareev – Curriculum Vitae

Date of birth:	August 2, 1980.
Place of birth:	Moscow, USSR.
Education:	Faculty of Material Sciences, Moscow State University 2003.
Scientific degrees:	Ph.D. in Geochemistry, Vernadsky Institute of Geochemistry and Analytical Chemistry, RAS 2006. D.Sc. in Crystallography, Shubnikov Institute of Crystallography of the FSRC "Crystallography and Photonics" RAS, 2018. Associate professor, Dubna University, 2012.
Affiliation:	Junior researcher, researcher, senior researcher, leading researcher at the Institute of Experimental Mineralogy RAS 2003 – at present. Associate professor, Professor, Dubna University, 2008 – at present
Invited researcher:	Bayerisches Geoinstitut (BGI) Germany, 3 months, 2008. Institute of Solid state Physics and Materials Research, Dresden, Germany, 2 months, 2012.
Awards:	Medal of the Russian Academy of Sciences for young scientists 2008 Laureate of the Prize of the Government of the Russian Federation in the field of science and technology for young scientists 2012 Laureate of the Prize of the Government of the Moscow in the field of science and technology for young scientists 2020
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Field of expertise:	Crystal growth, solid state chemistry, functional materials, sulfide equilibria
Grants:	Grants of Russian Foundation for Basic Research Grant of the President of the Russian Federation for young PhD 2009, 2011, for scientific schools 2022
Monographs:	Vymazalová, A., **Chareev, D.A.** (2018). Experimental aspects of Platinum-group minerals. - Chapter 10 in book: *"Processes and Ore Deposits of Ultramafic-Mafic Magmas through Space and Time", S.K. Mondal and W.L. Griffin (eds.), Elsevier*, Pages 303-354, ISBN: 978-0-12-811159-8.
Papers	About 130 papers in peer-reviewed national and international journals
Metrics	Number of citation ~ 1850, Hirsch index 19.
Others	

1. **Chareev, D. A.,** Evstigneeva, P. V., Phuyal, D., Man, G., Rensmo, H., Vasiliev, A. N., & Abdel-Hafiez, M. (2020). Growth of Transition Metal Dichalcogenides by Solvent Evaporation Technique. *Crystal Growth & Design* (принято в печать).
2. **Д. А. Чареев,** О. С. Волкова, Н. В. Герингер, П. В. Евстигнеева, Н. А. Згурский, А. В. Кошелев, А. Н. Некрасов, В. О. Осадчий, Е. Г. Осадчий, О. Н. Филимонова (2019) Синтез кристаллов халькогенидов K, Zr, Hf, Hg и некоторых других элементов в галоидных расплавах в стационарном температурном градиенте *Кристаллография*, *64*(6), 992-998.
3. **Chareev, D.,** Ovchenkov, Y., Shvanskaya, L., Kovalskii, A., Abdel-Hafiez, M., Trainer, D. J., ... & Vasiliev, A. (2018). Single crystal growth, transport and scanning tunneling microscopy and spectroscopy of $FeSe_{1-x}S_x$. *CrystEngComm*, *20*(17), 2449-2454.
4. **Chareev**, **D. A.,** Osadchii, V.O., Shiryaev, A.A., Nekrasov, A.N., Koshelev, A.V., Osadchii, E.G. (2017) Single crystal Fe-bearing sphalerite: synthesis, lattice parameter, thermal expansion coefficient and microhardness. *Physics and chemistry of minerals 44*(4), 287-296.

5. **Чареев, Д.** (2016). Общие принципы синтеза кристаллов халькогенидов и пниктидов в солевых расплавах при стационарном температурном градиенте. *Кристаллография*, *61*(3), 475-481.

6. **Чареев, Д.,** Волкова, О., Герингер, Н., Кошелев, А., Некрасов, А., Осадчий, В., Осадчий, Е., Филимонова, О. (2016). Синтез кристаллов халькогенидов и пниктидов в солевых расплавах при стационарном температурном градиенте. *Кристаллография*, *61*(4), 652-662.

7. **Chareev, D. A.** (2015). The low temperature electrochemical growth of iron, nickel and other metallic single crystals from halide eutectic fluxes in a temperature gradient. *Journal of Crystal Growth*, *429*, 63-67.

8. **Chareev, D. A.,** Voronin, M. V., & Osadchii, E. G. (2014). Thermodynamic study of monoclinic pyrrhotite in equilibrium with pyrite in the Ag-Fe-S system by solid-state electrochemical cell technique. *American Mineralogist*, *99*(10), 2031-2034.

9. **Chareev, D.**, Osadchii, E., Kuzmicheva, T., Lin, J. Y., Kuzmichev, S., Volkova, O., & Vasiliev, A. (2013). Single crystal growth and characterization of tetragonal $FeSe_{1-x}$ superconductors. *CrystEngComm*, *15*(10), 1989-1993.

10. **Chareev, D. A.,** Kurnosov, A. V., Dubrovinsky, L. S., Narygina, O. V., Gavrilenko, P. G., Zarechnaya, E. Y., ... & Osadchii, E. G. (2010). New synthetic high-density nickel sulfide: A plausible component of the Earth's core and terrestrial planets. In *Doklady Earth Sciences* (Vol. 432, No. 2, p. 771).

11. Патент РФ № 2013116439/05, 11.04.2013 **Чареев Д.А.**, Волкова О.С., Митрофанова Е.С. Способ синтеза монокристаллических тетрагональных теллуридов железа и теллуридов железа, легированных серой и/или селеном // Патент России № 2538740 С2, 2015, Бюллетень № 1.

12. Патент РФ № 2012129650/05, 13.07.2012 **Чареев Д.А.**, Волкова О.С. Способ синтеза монокристаллических селенидов железа // Патент России № 2522591 С2, 2014, Бюллетень № 20.