

# Ruiqi Chen

Hangzhou, China

☎ +86 13606543970

✉ ruiqi\_chen@163.com

🌐 <https://www.linkedin.com/in/ruiqi-riki-chen/>

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## Education

Sep 2015 – Jun 2019 **B.S. in Geophysics and Geochemistry**, *Saint Petersburg State University, St Petersburg, Russia.*

- **Supervisor:** Professor Oleg Siidra.
- **Thesis:** The Synthesis, Properties, and Crystal-Chemical Features of Some Analogues of Anhydrous Sulfate Minerals.
- **Professional courses:** mathematics, (geo, crystal)physics, (geo, crystal)chemistry, physical chemistry, geology, geodesy, geodynamics, (micro)mineralogy, lithology, crystallography, crystal optics, etc.
- **Elective courses:** philosophy, economics, elocution and business communication, general theory of management, computer science, legal foundation of resource management, etc.

Sep 2019 – Jun 2021 **Msc. in Structural Mineralogy and Material Science**, *Saint Petersburg State University, St Petersburg, Russia.*

- **Supervisor:** Professor Oleg Siidra.
- **Thesis:** Study of metamict minerals and their transformations under HT conditions.
- **Professional courses:** materials science, space chemistry and space mineralogy, biotechnology, etc.
- **Elective courses:** technology and security, countering corrupt behavior and extremism, etc.

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## Skills

Language English, Russian, Chinese.

Lab skills Single-crystal and powder X-ray diffraction (XRD) analysis, crystal and molecular structure analysis.

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## Experience

Sep 2015 – Jun 2019 **Research Assistant**, *Dept. Crystallography, Saint Petersburg State University, St. Petersburg, Russia.*

- The synthesis, crystal structures, and properties of the sulfate minerals from volcano Tolbachik, Kamchatka peninsula. The research is supported by Russian Science Foundation and supervised by Professor Oleg Siidra.

Sep 2019 – Jun 2021 **Research Assistant**, *Dept. Crystallography, Saint Petersburg State University, St. Petersburg, Russia.*

- Effects of radioactive decay on the crystal structure of metamict minerals containing radioactive and rare-earth elements and their structural changes under high temperature conditions. The research is supported by Russian Science Foundation and supervised by Professor Oleg Siidra.

Jun 2017 – Aug 2017 **Research Assistant**, *Second Institute of Oceanography, State Oceanic Administration, Hangzhou, China.*

- The extraction and analysis of microalgal DNA using scanning electron microscope, fluorescence microscope, and laser scanning confocal microscope.

July 2018 – July 2018 **Assistant**, *Zhejiang FANGYUAN Test Group, Hangzhou, China.*

- Testing and certifications of the gold and jewelry products.

### Field Research.

- Jun 2016 – Jul 2016, Leningrad Oblast, Russia. Geology and geodesy field research.
- Jun 2017 – Jul 2017, Alta and Tromsø, Norway. Geology and geocartography field research.
- Jun 2018 – Jul 2018, Oslo, Bergen, and Kongsberg, Norway. Geology and mineralogy field research.

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### Publication

- [2018a] Diana NeNrasova, **Zhuici Chen**, Vadim Kovrugin, Olivier Mentré, Marie Colmont, and Oleg Siidra. “Synthesis and properties of puninite-type  $A_2Cu_3O(SO_4)_3$  ( $A = Na, K, Rb, Cs$ ) sulfate materials.” *Acta Crystallographica Section A: Foundations and Advances*, 74. e266-e266. 2018.
- [2018b] Oleg Siidra, Diana Nekrasova, **Zhuici Chen**, Vadim Kovrugin, Olivier Mentré, and Marie Colmont. “Solid-state synthesis and structural characterization of novel geo-inspired sulfate,  $Na_2CuM_2(SO_4)_4$  ( $M = Mg, Zn$ ).” *Acta Crystallographica Section A: Foundations and Advances*, 74, e239-e239. 2018.
- [2019a] **Ruiqi Chen**, Oleg I. Siidra, Evgeny V. Nazarchuk, Evgeniya A. Lukina, Karim A. Zagidullin, and Dmitri O. Charkin. “Belousovite-a sulfate mineral from the Tolbachik volcano, and its synthetic analogues  $KZn(SO_4)X$ ,  $X = Cl, Br$ .” In *XIX International Meeting on Crystal Chemistry, X-ray Diffraction and Spectroscopy of Minerals*, pp. 130-130. 2019.
- [2021a] Diana O. Nekrasova, Oleg I. Siidra, Anatoly N. Zaitsev, Valery L. Ugolkov, Marie Colmont, Dmitry O. Charkin, Olivier Mentré, **Ruiqi Chen**, Vadim M. Kovrugin, and Artem S. Borisov. “A fumarole in a one-pot: synthesis, crystal structure and properties of Zn-and Mg-analogs of itelmenite and a synthetic analog of glikinite.” *Physics and Chemistry of Minerals* 48(1), 1-14. 2021.

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### Awards & Fundings

Sep 2019 – **Russian Scholarships for International Students**, *the Russian Federation, Russia*.  
Jun 2021