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Должности:

Научный сотрудник МИИ ИМ

Образование и ученые степени:

Высшее, кандидат ф.-м. наук

Направления исследований (ключевые слова):

Метеориты; тектиты; межзвёздная среда; XANES.

Область научных интересов:

Исследование метеоритов и тектитов методами рентгеновской спектроскопии.

Методы:

XANES

Научные публикации в реферируемых журналах:

Монографии, статьи и др.: 8

10 наиболее цитируемых публикаций:

1. A.N. Kravtsova, L. V. Guda, O.E. Polozhentsev, I.A. Pankin, A.V. Soldatov "XANES spectroscopic diagnostics of the 3D local atomic structure of nanostructured materials" Journal of Structural Chemistry 2018 59 (17) 1749-1765 (Impact-factor: 0.521) DOI: 10.26902/JSC20180725
2. L.V. Guda, A.N. Kravtsova, S.P. Kubrin, M.I. Mazuritsky, M.V. Kirichkov, Yu.V. Rusalev, V.V. Shapovalov, A.V. Soldatov "Structure and chemical composition of the ordinary chondrite Jiddat Al Harasis 055" Journal of Structural Chemistry 2018 59 (8) 1921-1928 (Impact-factor: 0.521) DOI: 10.1134/S0022476618080140
3. Guda, L. V.; Kravtsova, A. N.; Badyukov, D. D.; Trigub, A. L.; Soldatov, A. V. "Studing of the tektites and impactites using X-RAY absorption spectroscopy" METEORITICS & PLANETARY SCIENCE 2018 53 (SI) 6159-6159 (Impact-factor: 2.949 / Q2)
4. L.V. Guda, A.N. Kravtsova, A.A. Guda, S.P. Kubrin, M.I. Mazuritskiy, A.V. Soldatov "Comprehensive Investigation of Some Ordinary Chondrites Based on X-ray Methods and Mossbauer Spectroscopy" Journal of Surface Investigation: X-ray, Synchrotron and Neutron Techniques 2019 13 (6) 995-1004 (Impact-factor: 0.359 / Q3) DOI: 10.1134/S1027451019060089

5. A.N. Kravtsova, L.V. Guda, A.A. Guda, A.L. Trigub, D.D. Badyukov, A.V. Soldatov "Iron oxidation state of impact glasses from the Zhamanshin crater studied by X-ray absorption spectroscopy." *Radiation Physics and Chemistry* 2020 175 108097 (Impact-factor: 2.226 / Q1) DOI: 10.1016/j.radphyschem.2018.12.017
6. Guda, S. A., Algasov, A. S., Guda, A. A., Martini, A., Kravtsova, A. N., Bugaev, A. L., Guda, L. V., Soldatov, A. V. "Search for Analytical Relations between X-Ray Absorption Spectra Descriptors and the Local Atomic Structure Using Machine Learning" *JOURNAL OF SURFACE INVESTIGATION* 2021 15 (5) 934-938 (Impact-factor: 0.359 / Q4) DOI: 10.1134/S1027451021050050
7. A. A. Guda, S. A. Guda, A. Martini, A. N. Kravtsova, A. Algasov, A. Bugaev, S. P. Kubrin, L. V. Guda, P. Šot, J. A. van Bokhoven, C. Copéret and A. V. Soldatov "Understanding X-ray absorption spectra by means of descriptors and machine learning algorithms" *npj Computational Materials* 2021 7 203 (Impact-factor: 12.241 / Q1) DOI: 10.1038/s41524-021-00664-9
8. Complex diagnostics of ordinary chondrites Markovka, Polujamki, Sayh al Uhaymir 001, Dhofar 020, and Jiddat al Harasis 055 by X-ray techniques and Mössbauer spectroscopy // Guda L.V., Kravtsova A.N., Guda A.A., Tereshchenko A.A., Soldatov A.V., Kubrin S.P., Mazuritskiy M.I., Popov Y.V. / *Meteoritics and Planetary Science*. 2021.V. 56. № 12. PP. 2191-2210. DOI:10.1111/maps.13769.



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Academic positions : Scientist.

Education and Degrees: PhD in Physics.

Research sectors (Keywords):

Meteorites; tektites; interstellar medium; XANES.

Fields of interest

Investigation of meteorites and tektites by X-ray spectroscopy.

Methods:

XANES.

Scientific publications in referred journals:

Monographs, book chapters, papers, etc.: 8.

Top of 10 most cited publications:

1. A.N. Kravtsova, L. V. Guda, O.E. Polozhentsev, I.A. Pankin, A.V. Soldatov "XANES spectroscopic diagnostics of the 3D local atomic structure of nanostructured materials" Journal of Structural Chemistry 2018 59 (17) 1749-1765 (Impact-factor: 0.521) DOI: 10.26902/JSC20180725.
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Synchrotron and Neutron Techniques 2019 13 (6) 995-1004 (Impact-factor: 0.359 / Q3) DOI: 10.1134/S1027451019060089.

5. A.N. Kravtsova, L.V. Guda, A.A. Guda, A.L. Trigub, D.D. Badyukov, A.V. Soldatov "Iron oxidation state of impact glasses from the Zhamanshin crater studied by X-ray absorption spectroscopy." Radiation Physics and Chemistry 2020 175 108097 (Impact-factor: 2.226 / Q1) DOI: 10.1016/j.radphyschem.2018.12.017.
6. Guda, S. A., Algasov, A. S., Guda, A. A., Martini, A., Kravtsova, A. N., Bugaev, A. L., Guda, L. V., Soldatov, A. V. "Search for Analytical Relations between X-Ray Absorption Spectra Descriptors and the Local Atomic Structure Using Machine Learning" JOURNAL OF SURFACE INVESTIGATION 2021 15 (5) 934-938 (Impact-factor: 0.359 / Q4) DOI: 10.1134/S1027451021050050.
7. A. A. Guda, S. A. Guda, A. Martini, A. N. Kravtsova, A. Algasov, A. Bugaev, S. P. Kubrin, L. V. Guda, P. Šot, J. A. van Bokhoven, C. Copéret and A. V. Soldatov "Understanding X-ray absorption spectra by means of descriptors and machine learning algorithms" npj Computational Materials 2021 7 203 (Impact-factor: 12.241 / Q1) DOI: 10.1038/s41524-021-00664-9.
8. Complex diagnostics of ordinary chondrites Markovka, Polujamki, Sayh al Uhaymir 001, Dhofar 020, and Jiddat al Harasis 055 by X-ray techniques and Mössbauer spectroscopy // Guda L.V., Kravtsova A.N., Guda A.A., Tereshchenko A.A., Soldatov A.V., Kubrin S.P., Mazuritskiy M.I., Popov Y.V. / Meteoritics and Planetary Science. 2021.V. 56. № 12. PP. 2191-2210. DOI:10.1111/maps.13769.