

Сведения о ведущей организации

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Список публикаций сотрудников за последние 5 лет по теме диссертации:

Публикации в журналах, входящих в БД WoS

1. Kiskin M. Y., Vasyunin A. I., Akimkin V. V. A numerical approach to model chemistry of complex organic molecules in a protoplanetary disk // *Open Astronomy*, 2022, Volume 31, 80.
2. Zolotarev R. V., Shustov B. M. Mass Indices of Meteoric Bodies: II. Evolution of Meteoroid Streams // *Astronomy Reports*, 2022, Volume 66, 255.
3. Vorobyov E. I., Skliarevskii A. M., Molyarova T., Akimkin V., Pavlyuchenkov Y., Kóspál Á., Liu H. B., Takami M., Topchieva A. Evolution of dust in protoplanetary disks of eruptive stars // *Astronomy and Astrophysics*, 2022, Volume 658, A191.
4. Shustov B. M., Zolotarev R. V. Mass Indices of Meteoric Bodies: I. Formation Model of Meteoroid Streams // *Astronomy Reports*, 2022, Volume 66, 179.
5. Dong R., Liu H. B., Cuello N., Pinte C., Ábrahám P., Vorobyov E., Hashimoto J., Kóspál Á., Chiang E., Takami M., Chen L., Dunham M., Fukagawa M., Green J., Hasegawa Y., Henning T., Pavlyuchenkov Y., Pyo T.-S., Tamura M. A likely flyby of binary protostar Z CMa caught in action // *Nature Astronomy*, 2022, Volume 6, 331.
6. Gong M., Ivlev A. V., Akimkin V., Caselli P. Impact of Magnetorotational Instability on Grain Growth in Protoplanetary Disks. II. Increased Grain Collisional Velocities // *The Astrophysical Journal*, 2021, Volume 917, 82.
7. Emel'yanenko V. V. Features of the Dynamical Evolution of a Massive Disk of Trans-Neptunian Objects // *Solar System Research*, 2021, Volume 55, 341.
8. Zolotarev R. V., Shustov B. M. On the Dynamic Evolution of the Population of Near-Earth Asteroids // *Astronomy Reports*, 2021, Volume 65, 518.
9. Molyarova T., Vorobyov E. I., Akimkin V., Skliarevskii A., Wiebe D., Güdel M. Gravitoviscous Protoplanetary Disks with a Dust Component. V. The Dynamic Model for Freeze-out and Sublimation of Volatiles // *The Astrophysical Journal*, 2021, Volume 910, 153.
10. Skliarevskii A. M., Pavlyuchenkov Y. N., Vorobyov E. I. Restoration of the Parameters of a Gas-Dust Disk Based on Its Synthetic Images // *Astronomy Reports*, 2021, Volume 65, 170.
11. Borisov G. V., Shustov B. M. Discovery of the First Interstellar Comet and the Spatial Density of Interstellar Objects in the Solar Neighborhood // *Solar System Research*, 2021, Volume 55, 124.
12. Akimkin V., Vorobyov E., Pavlyuchenkov Y., Stoyanovskaya O. Gravitoviscous protoplanetary discs with a dust component - IV. Disc outer edges, spectral indices, and

- opacity gaps // *Monthly Notices of the Royal Astronomical Society*, 2020, Volume 499, 5578.
13. Smirnov-Pinchukov G. V., Semenov D. A., Akimkin V. V., Henning T. Using HCO⁺ isotopologues as tracers of gas depletion in protoplanetary disk gaps // *Astronomy and Astrophysics*, 2020, Volume 644, A4.
 14. Zolotarev R. V., Shustov B. M., Korchagin V. I. On the dynamic scale of the population of near-Earth asteroids // *INASAN Science Reports*, 2020, Volume 5, 225.
 15. White J. A., Kóspál Á., Hughes A. G., Ábrahám P., Akimkin V., Banzatti A., Chen L., Cruz-Sáenz de Miera F., Dutrey A., Flock M., Guilloteau S., Hales A. S., Henning T., Kadam K., Semenov D., Sicilia-Aguilar A., Teague R., Vorobyov E. I. ALMA and VLA Observations of EX Lupi in Its Quiescent State // *The Astrophysical Journal*, 2020, Volume 904, 37.
 16. Emel'yanenko V. V. Orbital features of distant trans-Neptunian objects induced by giant gaseous clumps // *Astronomy and Astrophysics*, 2020, Volume 642, L20.
 17. Maksimova L. A., Pavlyuchenkov Y. N., Tutukov A. V. Evolution of a Viscous Protoplanetary Disk with Convectively Unstable Regions. II. Accretion Regimes and Long-Term Dynamics // *Astronomy Reports*, 2020, Volume 64, 815.
 18. Fouchard M., Emel'yanenko V., Higuchi A. Long-period comets as a tracer of the Oort cloud structure // *Celestial Mechanics and Dynamical Astronomy*, 2020, Volume 132, 43.
 19. Elbakyan V. G., Johansen A., Lambrechts M., Akimkin V., Vorobyov E. I. Gravitoviscous protoplanetary disks with a dust component. III. Evolution of gas, dust, and pebbles // *Astronomy and Astrophysics*, 2020, Volume 637, A5.
 20. Emel'yanenko V. V. Migration of Giant Gaseous Clumps and Structure of the Outer Solar System // *Solar System Research*, 2020, Volume 54, 64.
 21. Stoyanovskaya O. P., Okladnikov F. A., Vorobyov E. I., Pavlyuchenkov Y. N., Akimkin V. V. Simulations of Dynamical Gas-Dust Circumstellar Disks: Going Beyond the Epstein Regime // *Astronomy Reports*, 2020, Volume 64, 107.
 22. Pavlyuchenkov Y. N., Tutukov A. V., Maksimova L. A., Vorobyov E. I. Evolution of a Viscous Protoplanetary Disk with Convectively Unstable Regions // *Astronomy Reports*, 2020, Volume 64, 1.
 23. Akimkin V. V., Ivlev A. V., Caselli P. Inhibited Coagulation of Micron-size Dust Due to the Electrostatic Barrier // *The Astrophysical Journal*, 2020, Volume 889, 64.
 24. Vorobyov E. I., Skliarevskii A. M., Elbakyan V. G., Pavlyuchenkov Y., Akimkin V., Guedel M. Gravitoviscous protoplanetary disks with a dust component. I. The importance of the inner sub-au region // *Astronomy and Astrophysics*, 2019, Volume 627, A154.
 25. Pavlyuchenkov Y., Akimkin V., Wiebe D., Vorobyov E. Revealing dust segregation in protoplanetary discs with the help of multifrequency spectral index maps // *Monthly Notices of the Royal Astronomical Society*, 2019, Volume 486, 3907.
 26. Wiebe D. S., Molyarova T. S., Akimkin V. V., Vorobyov E. I., Semenov D. A. Luminosity outburst chemistry in protoplanetary discs: going beyond standard tracers // *Monthly Notices of the Royal Astronomical Society*, 2019, Volume 485, 1843.
 27. Molyarova T., Akimkin V., Semenov D., Ábrahám P., Henning T., Kóspál Á., Vorobyov E., Wiebe D. Chemical Signatures of the FU Ori Outbursts // *The Astrophysical Journal*, 2018, Volume 866, 46.
 28. Emel'yanenko V. V. Dynamics and Origin of Comets: New Problems Appeared after the Rosetta Space Mission // *Solar System Research*, 2018, Volume 52, 382.
 29. Vorobyov E. I., Akimkin V., Stoyanovskaya O., Pavlyuchenkov Y., Liu H. B. Early evolution of viscous and self-gravitating circumstellar disks with a dust component // *Astronomy and Astrophysics*, 2018, Volume 614, A98.
 30. Dong R., Liu S.-yuan., Eisner J., Andrews S., Fung J., Zhu Z., Chiang E., Hashimoto J., Liu H. B., Casassus S., Esposito T., Hasegawa Y., Muto T., Pavlyuchenkov Y., Wilner D., Akiyama E., Tamura M., Wisniewski J. The Eccentric Cavity, Triple Rings, Two-

- armed Spirals, and Double Clumps of the MWC 758 Disk // The Astrophysical Journal, 2018, Volume 860, 124.
31. Shustov B., Sachkov M., Gómez de Castro A. I., Vallejo J. C., Kanev E., Dorofeeva V. Comets in UV // Astrophysics and Space Science, 2018, Volume 363, 64.
 32. Emel'yanenko V. V., Emel'yanenko N. Y. Long-Lived Near-Earth Asteroid 2013 RB6 // Solar System Research, 2018, Volume 52, 61.