

## List of Publications of Dr. Khodachenko M.L.

### *I. Papers / Contributions in Books / Popular press:*

1. **Khodachenko, M.L.**, Rucker, H.O., Hanslmeier, A., Zaitsev, V.V., Kislyakov, A.G., Gubchenko, V.M., Advances of the theoretical solar plasma physics in IWF Graz, S.Bauer 75 Jubilee Book, Verlag der Oesterreichischen Academie der Wissenschaften, Wien, 2005, p.35-49.
2. Lammer, H., **Khodachenko, M.L.**, Lichtengger, H.I.M., Kulikov, Yu. N., Impact of Stellar Activity to the Evolution of Planetary Atmospheres and Habitability, In: Extrasolar Planets: formation, detection and dynamics, Physics Textbook, Ed.:R.Dvorak, WILEY-VCH, ISBN: 978-3-527-40671-5, 2007, p.127-152.
3. Rucker, H.O., **Khodachenko, M.L.**, Immer wieder geht die Sonne auf: Grazer Physiker erforschen dynamische Phänomene in der solaren Atmosphäre, Universum, No.2, 2007, p.91.
4. Killen, R., Cremonese, G., Lammer, H., Orsini, S., Potter, A., Sprague, A., Wurz, P., **Khodachenko, M.L.**, Lichtenegger, H.I.M., Milillo, A., Mura, A., Processes that promote and deplete the exosphere of Mercury, ISSI-Book series: Mercury, Eds. Balogh et al., DOI: 10.1007/978-0-387-77539-5\_10, 2007, p.251-327.
5. **Khodachenko, M.L.**, Lammer, H., Lichtenegger, H.I.M., Gießmeier, J.-M., Holmström, M., Eckenbäck, A., The role of intrinsic magnetic fields in the planetary evolution and habitability: Planetary protection aspects, in "Cosmic Magnetic Fields: From Planets, to Stars and Galaxies", Eds. K.G. Strassmeier, A.G.Kosovichev, J.E.Beckman, IAU Symp.No.259, 2009, pp.283-295.
6. Gießmeier, J.-M., **Khodachenko, M.L.**, Lammer, H., Grenfell, L., Stadelmann, A., Motschmann, U., Stellar activity and magnetic shielding Solar and Stellar Variability – Impact on Earth and Planets, in "Solar and Stellar Variability - Impact on Earth and Planets", Eds.: Alexandre H. Andrei, Alexander Kosovichev & Jean-Pierre Rozelot, IAU Symp. No.264, 2010, pp.385-394.
7. **Khodachenko, M.L.**, Kislyakov, A.G., Shkelev, E.I., Analysis of long-periodic fluctuations of solar microwave radiation, as a way for diagnostics of coronal magnetic loops dynamics, In: "Fourier Transform", ISBN 978-953-51-0518-3, InTech - Open Access Publisher, 2012, 143-166 (DOI: 10.5772/36919).
8. Lammer, H., Kislyakova, K. G., Odert, P., Leitzinger, M., **Khodachenko, M.L.**, Holmstroem, M., Hanslmeier, A., Exoplanet upper atmosphere environment characterization, in "From Interacting Binaries to Exoplanets: Essential Modeling Tools", IAU Symp. No. 282, 2011, Eds. Richards, M.T., I. Hubeny, Cambridge University Press, Cambridge, 2012, 525-532, (doi:10.1017/S1743921311028316)
9. Belenkaya, E.S., Alexeev, I.I., **Khodachenko, M.L.**, Location of the Inner Edges of Astrophysical Disks Related to the Central Object, in "Multiscale Dynamical Processes in Space and Astrophysical Plasmas", Eds. Leubner, M.P., Vörös, Z., Astrophysics and Spcace Science Proceedings, Volume 33, Springer, 2012, 217-226 (DOI 10.1007/978-3-642-30442-2).
10. **Khodachenko, M.L.**, Alexeev, I.I., Belenkaya, E.S., Lammer, H., Magnetodisk-dominated magnetospheres of close orbit giant exoplanets, In: "ECLA European conference in laboratory astrophysics", Eds.: C. Stehlé, C. Joblin, L.d'Hendecourt, EAS Publications Series, Volume 58, 2013, 233-238 (DOI 10.1051/eas/1258037).
11. Lammer, H., Kislyakova, K.G., Güdel, M., Holmström, M., Erkaev, N.V., Odert, P., **Khodachenko, M.L.**, Stability of Earth-like N<sub>2</sub> atmospheres: Implications for habitability. In: "The Early Evolution of the Atmospheres of Terrestrial Planets", Astrophysics and

- Space Science Proceedings, 37, Eds.: Trigo-Rodriguez, J.M., F. Raulin, C. Muller, C. Nixon, Springer, New York, 2013, 33-52, (doi:10.1007/978-1-4614-5191-4\_4)
12. **Khodachenko, M.L.**, Y. Sasunov, O.V. Arkhypov, I.I. Alexeev, E.S. Belenkaya, H. Lammer, K.G. Kislyakova, P. Odert, M. Leitzinger, M. Güdel: Stellar CME activity and its possible influence on exoplanets' environments: Importance of magnetospheric protection, In: Nature of Prominences and their role in Space Weather. Proceedings of the International Astronomical Union, Volume 8, Symposium S300, Eds. Schmieder, B., J.-M. Malherbe, S.T. Wu, Cambridge University Press, Cambridge, UK, 2014, 335-346, (doi:10.1017/S1743921313011174)
  13. Güdel, M., Dvorak, R., Erkaev, N., Kasting, J., **Khodachenko, M.L.**, Lammer, H., Pilat-Lohinger, E., Rauer, H., Ribas, I., Wood, B., Astrophysical conditions for planetary habitability in Protostars and Planets VI, Eds. H. Beuther et al., Univ of Arizona, Tucson, 2014, 883-906 (doi: 10.2458/azu\_uapress\_9780816531240-ch038)
  14. **Khodachenko, M. L.** and "Pathways to Habitability" Team, Stellar activity and CMEs: Important factors of planetary evolution, In: Solar Prominences, Eds. J.-C. Vial, O. Engvold, Springer Verlag, Heidelberg, New York, London, 2015, 455-482 (DOI: 10.1007/978-3-319-10416-4\_18).
  15. Lammer, H. and **Khodachenko, M. L.**: Characterizing stellar and exoplanetary environments, Astrophys. Space Sci. Library 411, Springer Verlag, Heidelberg, New York, London, pp. 310, 2015 (DOI: 10.1007/978-3-319-09749-7; <https://www.springer.com/de/book/9783319097480>)
  16. Alexeev, I.I., M.S. Grygoryan, E.S. Belenkaya, V.V. Kalegaev, **M.L. Khodachenko**: Magnetosphere environment from solar 6 system planets/moons to exoplanets. In: Characterizing Stellar and Exoplanetary Environments, Eds. Lammer, H., Khodachenko, M.L., Springer, Berlin, 2015, 59-80 (DOI: 10.1007/978-3-319-09749-7\_10)
  17. Belenkaya, E.S., **M.L. Khodachenko**, I.I. Alexeev: Alfvén radius: A key parameter for astrophysical magnetospheres. In: Characterizing Stellar and Exoplanetary Environments, Eds. Lammer, H., Khodachenko, M.L., Springer, Berlin, 2015, 239-246 (DOI: 10.1007/978-3-319-09749-7\_12)
  18. Kern, R., Al-Ubaidi, T., Sabol, V., Krebs, S., **Khodachenko, M.L.**, Scherf, M., Astro- and Geoinformatics - Visually Guided Classification of Time Series Data, In: Knowledge Discovery in Big Data from Astronomy and Earth Observation, 1st Edition., Eds. Skoda, P., Fathallahman, A., Elsevier, 2020, 267-282, ISBN: 978-0-128-19154-5 (DOI: 10.1016/B978-0-12-819154-5.00025-4)

## *II. Papers in Peer-reviewed Journals:*

19. Berezutsky, A.G., Shaikhislamov, I. F., Rumenskikh, M. S., **Khodachenko, M.L.**, Lammer, H., Miroshnichenko, I.B., On the transit spectroscopy features of warm Neptunes in the TOI-421 system, revealed with their 3D aeronomy simulations, MNRAS, 2022, 515(1), 706-715 (DOI: 10.1093/mnras/stac1633)
20. Shergelashvili, B.M., Philishvili, E., Buitendag, S., Poedts, S., **Khodachenko, M.L.**, Categorization model of moving small-scale intensity enhancements in solar active regions, Astron. & Astrophys., 2022, 662, art.id.A30 (DOI: 10.1051/0004-6361/202142547) (<http://arxiv.org/abs/2203.06285>)
21. Rumenskikh, M. S., Shaikhislamov, I. F., **Khodachenko, M.L.**, Lammer, H., Miroshnichenko, I.B., Berezutsky, A.G., Fossati, L., Global 3D simulation of the upper atmosphere of HD189733b and absorption in metastable HeI and Ly $\alpha$  lines, ApJ, 2022, 927(2), art.id.238 (DOI: 10.3847/1538-4357/ac441d)
22. Fossati, L., Guilluy, G., Shaikhislamov, I. F., Carleo, I., Borsa, F., Bonomo, A. S., Giacobbe, P., Rainer, M., Cecchi-Pestellini, C., **Khodachenko, M.L.**, Efimov, M. A.,

- Rumenskikh, M. S., Miroshnichenko, I. B., Berezutsky, A. G., Nascimbeni, V., Brogi, M., Lanza, A. F., Mancini, L., Affer, L., Benatti, S., Biazzo, K., Bignamini, A., Carosati, D., Claudi, R., Cosentino, R., Covino, E., Desidera, S., Fiorenzano, A., Harutyunyan, A., Maggio, A., Malavolta, L., Maldonado, J., Micela, G., Molinari, E., Pagano, I., Pedani, M., Piotto, G., Poretti, E., Scandariato, G., Sozzetti, A., Stoev, H., The GAPS Programme at TNG. XXXII. The revealing non-detection of metastable He I in the atmosphere of the hot Jupiter WASP-80b, *Astron. & Astrophys.*, 2022, 658, A136 (DOI: 10.1051/0004-6361/202142336)
23. Dumbadze, G., Shergelashvili, B.M., Poedts, S., Zaqarashvili, T.V., **Khodachenko, M.L.**, De Causmaecker, P., Eigenspectra of solar active region long-period oscillations, *Astron. & Astrophys.*, 2021, 653, A39 (DOI: 10.1051/0004-6361/202038124) (<http://arxiv.org/abs/2109.04189>)
  24. **Khodachenko M.L.**, Shaikhislamov, I.F., Lammer, H., Miroshnichenko, I.B., Rumenskikh, M.S., Berezutsky, A.G., Fossati, L., The impact of intrinsic magnetic field on the absorption signatures of elements probing the upper atmosphere of HD209458b, *MNRAS*, 2021, 507(3), 3626–3637 (DOI: 10.1093/mnras/stab2366)
  25. Arkhypov, O.V., **Khodachenko, M.L.**, Empirically revealed properties of Rieger-type cycles of stellar activity, *Astron. & Astrophys.*, 2021, 651, A28 (DOI: <https://doi.org/10.1051/0004-6361/202140629>).
  26. Sasunov, Yu.L., **Khodachenko, M.L.**, Kubyshkin, I.V., Dwivedi, N., Alexeev, I.I., Belenkaya, E.S., Malova, H.V., Kulminskaya, N., Transient particle acceleration by a dawn–dusk electric field in a current sheet, *Phys. of Plasmas*, 2021, 28, 042902 (DOI: <https://doi.org/10.1063/5.0037060>).
  27. Shaikhislamov, I.F., **Khodachenko, M.L.**, Berezutskiy, A.G., The Atmospheric Wind of Hot Exoplanets and its Manifestations in Observations: from Energy Estimates to 3D MHD Models, *Astronomy Reports*, 2021, 65, 8-25 (DOI: 10.1134/S1063772921010054)
  28. **Khodachenko, M. L.**, Shaikhislamov, I. F., Fossati, L., Lammer, H., Rumenskikh, M.S., Berezutsky, A. G., Miroshnichenko, I. B., Efimof, M.A., Simulation of 10830 Å absorption with a 3D hydrodynamic model reveals the solar He abundance in upper atmosphere of WASP-107b, *MNRAS: Letters*, 2021, 503, Issue 1, L23–L27 (DOI: <https://doi.org/10.1093/mnrasl/slab015>)<https://academic.oup.com/mnrasl/article/503/1/L23/6134065?guestAccessKey=970e42e9-5c15-48a1-beff-1ffc6f7271c1>
  29. Arkhypov, O.V., **Khodachenko, M.L.**, Hanslmeier, A., Revealing of peculiar exoplanetary shadows from transit light-curves, *Astron. & Astrophys.*, 2021, 646, A136 (DOI: <https://doi.org/10.1051/0004-6361/202039050>).
  30. Philishvili, E., Shergelashvili, B.M., Buitendag, S., Raes, J., Poedts, S., **Khodachenko, M.L.**, Case study on the identification and classification of small-scale flow patterns in flaring active region, *Astron. & Astrophys.*, 2021, **645**, id.A52 (DOI: 10.1051/0004-6361/202038895) (<https://arxiv.org/abs/2011.07634>)
  31. Shaikhislamov, I. F., **Khodachenko, M. L.**, Lammer, H., Berezutsky, A. G., Miroshnichenko, I. B., & Rumenskikh, M. S., Global 3D hydrodynamic modeling of absorption in Ly $\alpha$  and He 10830 Å lines at transits of GJ3470b. *MNRAS*, 2021, **500**(1), 1404-1413 (DOI: 10.1093/mnras/staa2367).
  32. Owen, J.E., Shaikhislamov, I.F., Lammer, H., Fossati, L., **Khodachenko, M.L.**, Hydrogen Dominated Atmospheres on Terrestrial Mass Planets: Evidence, Origin and Evolution, *Space Sci. Rev.*, 2020, **216**, 129 (<https://doi.org/10.1007/s11214-020-00756-w>)
  33. Shaikhislamov, I. F., Fossati, L., **Khodachenko, M. L.**, Lammer, H., García Muñoz, A., Youngblood, A., Dwivedi, N. K., Rumenskikh, M. S., Three-dimensional hydrodynamic simulations of the upper atmosphere of  $\pi$  Men c: comparison with Ly $\alpha$  transit observations, *Astron. & Astrophys.*, 2020, **639**, A109 (<https://doi.org/10.1051/0004-6361/202038363>).

34. Kislyakova, K. G., Johnstone, C. P., Scherf, M., Holmstroem, M., Alexeev, I. I., Lammer, H., **Khodachenko, M. L.**, Guedel, M., Evolution of the Earth's polar outflow from mid-Archean to present, *JGR Space Phys.*, 2020, 125, e2020JA027837, (<https://doi.org/10.1029/2020JA027837>).
35. Shergelashvili, B. M., Melnik, V.N., Dididze, G., Fichtner, H., Brenn, G., Poedts, S., Foyasi, H., **Khodachenko M.L.**, Zaqarashvili T.V., A new class of discontinuous solar wind solutions, *MNRAS*, 2020, **496**, 1023–1034 (DOI: 10.1093/mnras/staa1396)
36. Arkhypov, O.V., **Khodachenko, M.L.**, Hanslmeier, A., Variability of transit light curves of Kepler objects of interest, *Astron. & Astrophys.*, 2020, **638**, A143 (<https://doi.org/10.1051/0004-6361/201937303>)
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38. Arkhypov, O.V., **Khodachenko, M.L.**, Hanslmeier, A., Dusty phenomena in the vicinity of giant exoplanets, *Astron. & Astrophys.*, 2019, **631**, A152 (DOI: <https://doi.org/10.1051/0004-6361/201936521>)
39. **Khodachenko, M.L.**, Shaikhislamov, I.F., Lammer, H., Berezutsky, A.G., Miroshnichenko, I.B., Rumenskikh, M.S., Kislyakova, K.G., Dwivedi, N.K., Global 3D hydrodynamic modeling of in-transit Ly $\alpha$  absorption of GJ436b, *ApJ*, 2019, 885:67 (DOI: <https://doi.org/10.3847/1538-4357/ab46a4>, Open Access)
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42. Berezutsky, A. G., Shaikhislamov, I. F., Miroshnichenko, I. B., Rumenskikh, M. S., **Khodachenko, M.L.**, Interaction of the Expanding Atmosphere with the Stellar Wind around Gliese 436b, *Solar System Research*, 2019, **53**, No.2, p.138–145 (in Russian appeared in *Astronomicheskii Vestnik*, 2019, **53**, p.147–154, ISSN 0038-0946) (DOI: 10.1134/S0038094619020011)
43. Dididze, G., Shergelashvili, B. M., Melnik, V. N., Dorovskyy, V. V., Brazhenko, A. I., Poedts, S., Zaqarashvili, T. V., **Khodachenko, M.L.**, Comparative analysis of solar radio bursts before and during CME propagation, *Astron. & Astrophys.*, 2019, **625**, A63 (DOI: <https://doi.org/10.1051/0004-6361/201629489>)
44. Johnstone, C. P., **Khodachenko, M.L.**, Lüftinger, T., Kislyakova, K. G., Lammer, H., Güdel, M., Extreme hydrodynamic losses of Earth-like atmospheres in the habitable zones of very active stars, *Astron. & Astrophys.*, 2019, **624**, L10 (DOI: <https://doi.org/10.1051/0004-6361/201935279>, Open Access).
45. Kislyakova, K. G., Holmström, M., Odert, P., Lammer, H., Erkaev, N. V., **Khodachenko, M. L.**, Shaikhislamov, I. F., Dorfi, E., Güdel, M., Transit Lyman- $\alpha$  signatures of terrestrial planets in the habitable zones of M dwarfs, *Astron. & Astrophys.*, 2019, **623**, id.A131 (DOI: 10.1051/0004-6361/201833941).

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47. Shaikhislamov, I.F., **M.L. Khodachenko**, H. Lammer, A. G. Berezutsky, I. B. Miroshnichenko, M. S. Rumenskikh, 3D Aeronomy modelling of close-in exoplanets, *MNRAS*, 2018, **481**, 5315–5323 (doi:10.1093/mnras/sty2652)
48. I. F. Shaikhislamov, **M. L. Khodachenko**, H. Lammer, L. Fossati, N. Dwivedi, M. Güdel, K.G. Kislyakova, C.P. Johnstone, A. G. Berezutsky, I. B. Miroshnichenko, V. G. Posukh, N. V. Erkaev, V. A. Ivanov, Modeling of absorption by heavy minor species for the hot Jupiter HD 209458b, *Astrophysical Journal*, 2018, 866:47 (<https://doi.org/10.3847/1538-4357/aadf39> Open access).
49. Sasunov, Yu.L., **M.L. Khodachenko**, I.I. Alexeev, E.S. Belenkaya, V.M. Gubchenko, N. Dwivedi, A. Hanslmeier: Self-consistent description of the tangential-discontinuity-type current sheet, using the particle trajectory method and angular variables, *Phys. Plasmas*, 2018, 25, 092110, (doi:10.1063/1.5044720)
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51. J.L. Ballester, I.I. Alexeev, M. Collados, T. Downes, R.F. Pfaff, H. Gilbert, **M.L. Khodachenko**, E. Khomenko, I.F. Shaikhislamov, R. Soler, E. Vázquez-Semadeni, T. Zaqarashvili, Partially Ionized Plasmas in Astrophysics, *Space Sci. Rev.* 2018, 214:58 (<https://doi.org/10.1007/s11214-018-0485-6>)
52. S.R. Bagashvili, B.M. Shergelashvili, D.R. Japaridze, V. Kukhianidze, S. Poedts, T.V. Zaqarashvili, **M.L. Khodachenko**, P. De Causmaecker, Evidence for Precursors of the Coronal Hole Jets in Solar Bright Points, *Astrophysical Journal Lett.*, 2018, 855, L21 (<https://doi.org/10.3847/2041-8213/aab08b>)
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55. R. Modolo, Hess, S., Génot, V., Leclercq, L., Leblanc, F., Chaufray, J.-Y., Weill, P., Gangloff, M., Fedorov, A., Budnik, E., Bouchemit, M., Steckiewicz, M., André, N., Beigbeder, L., Popescu, D., Toniutti, J.-P., Al-Ubaidi, T., **Khodachenko, M.L.**, Brain, D., Curry, S., Jakosky, B., Holmstroem M., The LatHyS database for planetary plasma environment investigations. Comparison between MAVEN and Mars Express observations and simulation results - a case study, *Planetary and Space Science*, 2018, 150, 13–21 (Open Access: <https://doi.org/10.1016/j.pss.2017.02.015>)
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