

# Publikacje naukowe Centrum Badań Kosmicznych PAN w roku 2018



## Publikacje ukazujące się w czasopiśmie recenzowanych

wyróżnionych przez Journal Citation Reports (JCR, lista A)

1. Abdellaoui G., Abe S., Adams J.H.Jr., Ahriche A., Allard D., Allen L., J. BŁĘCKI, P. ORLEAŃSKI and JEM-EUSO collaboration (360 authors); *EUSO-TA – First results from a ground-based EUSO telescope*; *Astroparticle Physics*, Volume 102, Pages 98-111, DOI: 10.1016/j.astropartphys.2018.05.007, 2018
2. Abdellaoui G., S. Abe, J.H. Adams Jr., A. Ahriche, D. Allard, L. Allen, G. Alonso, L. Anchordoqui, A. Anzalone, Y. Arai, J. BŁĘCKI, P. ORLEAŃSKI and JEM-EUSO collaboration (360 authors); *First observations of speed of light tracks by a fluorescence detector looking down on the atmosphere*; *Journal of Instrumentation*, Volume 13, Article Number: P05023, DOI: 10.1088/1748-0221/13/05/P05023, 2018
3. Abdellaoui G., BŁĘCKI J., ORLEAŃSKI P. and others 320 authors; *Ultra-violet imaging of the night-time earth by EUSO-Balloon towards space-based ultra-high energy cosmic ray observations*; *Astroparticle Physics*, 61pp, DOI: 10.1016/j.astropartphys.2018.10.008, 2018
4. Amati L., O'Brien P., Götz D., Bozzo E., Tenzer C., Frontera F., Ghirlanda G., Labanti C., Osborne J.P., ORLEAŃSKI P. and others 200 authors; *The THESEUS space mission concept: science case, design and expected performances*; *Advances in Space Research*, Volume 62, Issue 1, Pages 191-244, DOI: 10.1016/j.asr.2018.03.010, 2018
5. Arias M., J. Vink, F. de Gasperin, P. Salas, J. B. R. Oonk, R. J. van Weeren, A. S. van Amesfoort, J. Anderson, R. Beck, M. E. Bell, M. J. Bentum, P. Best, R. Blaauw, F. Breitling, J. W. Broderick, W. N. Brouw, M. Brüggen, H. R. Butcher, B. Ciardi, E. de Geus, A. Deller, P. C. G. van Dijk, S. Duscha, J. Eislöffel, M. A. Garrett, J. M. Grießmeier, A. W. Gunst, M. P. van Haarlem, G. Heald, J. Hessels, J. Hörandel, H. A. Holties, A. J. van der Horst, M. Iacobelli, E. Juette, A. Krankowski, J. van Leeuwen, G. Mann, D. McKay-Bukowski, J. P. McKean, H. Mulder, A. Nelles, E. Orru, H. Paas, M. Pandey-Pommier, V. N. Pandey, R. Pekal, R. Pizzo, A. G. Poltidis, W. Reich, H. J. A. Röttgering, H. ROTHKAEHL, D. J. Schwarz, O. Smirnov, M. Soida, M. Steinmetz, M. Tagger, S. Thoudam, M. C. Toribio, C. Vocks, M. H. D. van der Wiel, R. A. M. J. Wijers, O. Wucknitz, P. Zarka, P. Zucca; *Low-frequency radio absorption in Cassiopeia A*; *ASTRONOMY & ASTROPHYSICS*, Volume: 612, Article Number: A110, DOI: 10.1051/0004-6361/201732411, 2018
6. Attree N., O. Groussin, L. Jorda, D. Nébouy, N. Thomas, Y. Brouet, E. Kührt, F. Preusker, F. Scholten, J. Knollenberg, P. Hartogh, H. Sierks, C. Barbieri, P. Lamy, R. Rodrigo, D. Koschny, H. RICKMAN, H. U. Keller, M. F. A'Hearn, A.-T. Auger, M. A. Barucci, J.-L. Bertaux, I. Bertini, D. Bodewits, S. Boudreault, G. Cremonese, V. Da Deppo, B. Davidsson, S. Debei, M. De Cecco, J. Deller, M. R. El-Maarry, S. Fornasier, M. Fulle, P. J. Gutiérrez, C. Güttler, S. Hviid, W.-H. Ip, G. Kovacs, J. R. Kramm, M. Küppers, L. M. Lara, M. Lazzarin, J. J. Lopez Moreno, S. Lowry, S. Marchi, F. Marzari, S. Mottola, G. Naletto, N. Oklay, M. Pajola, I. Toth, C. Tubiana, J.-B. Vincent and X. Shi; *Tensile strength of 67P/Churyumov-Gerasimenko nucleus material from overhangs*; *Astronomy & Astrophysics*, Vol.611, A33 (12pp), DOI: 10.1051/0004-6361/201732155, 2018
7. BARYLAK J., A. BARYLAK, T. MROZEK, O. Grimm, A. Howard, P. PODGÓRSKI, M. STĘŚLICKI; *Simulation of charge sharing in the Caliste-SO detector*, *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, Volume 903, Pages 234-240, DOI: 10.1016/j.nima.2018.05.062, 2018
8. BŁĘCKI J., K. Mizerski; *Subtle structure of streamers under conditions resembling those of Transient Luminous Events*; *ARCHIVES OF MECHANICS*, Vol.70 Issue 6, 535-550, DOI:10.24423/aom.3009, 2018

9. CIAŻELA J., Koepke J., Dick H.J.B., Botcharnikov R., Muszynski A., Lazarov M., Schuth S., Pieterek B., Kuhn T.; *Sulfide enrichment at an oceanic crust-mantle transition zone: Kane Megamullion (23°N, MAR)*; *Geochimica et Cosmochimica Acta*, Volume 230, Pages 155-189, DOI: 10.1016/j.gca.2018.03.027, 2018
10. Colmenarejo P., M. Graziano, G. Novellia, D. Mora, P. Serra, A. Tomassini, K. SEWERYN, G. Prisco, J. Gil Fernandez; *On ground validation of debris removal technologies*; *Acta Astronautica*, 14pp, DOI: 10.1016/j.actaastro.2018.01.026, 2018
11. CZECHOWSKI A., M. Hilchenbach K. C. Hsieh, M. BZOWSKI, S. GRZEDZIELSKI, J. M. SOKÓŁ, J. GRYGORCZUK; *Structure of the heliosheath from HSTOF energetic neutral atoms measurements*; *Astronomy and Astrophysics*, Volume 618, Article number A26, DOI: 10.1051/0004-6361/201732432, 2018
12. CZECHOWSKI A., Mann, I.; *Dynamics of nanodust particles emitted from elongated initial orbits*; *Astronomy and Astrophysics*, Vol. 617, A43 (14pp), DOI:10.1051/0004-6361/201832922, 2018
13. Deshapriya J.D.P., Barucci M.A., Fornasier S., Hasselmann P.H., Feller C., Sierks H., Lucchetti A., Pajola M., Ockay N., Mottola S., Masoumzadeh N., Tubiana C., Güttler C., Barbieri C., Lamy P.L., Rodrigo R., Koschny D., RICKMAN H., Bertaux J.-L., Bertini I., Bodewits D., Boudreault S., Cremonese G., Da Deppo V., Davidsson B.J.R., Debei S., Cecco M.D., Deller J., Fulle M., Groussin O., Gutierrez P.J., Hoang H.V., Hviid S.F., Ip W., Jorda L., Keller H.U., Knollenberg J., Kramm R., Kühr E., Küppers M., Lara L., Lazzarin M., Lopez Moreno J.J., Marzari F., Naletto G., Preusker F., Shi X., Thomas N., Vincent J.-B.; *Exposed bright features on the comet 67P/Churyumov-Gerasimenko: Distribution and evolution*; *Astronomy and Astrophysics*, Volume 613, Article number A36; DOI: 10.1051/0004-6361/201732112, 2018
14. Dybczyński P. A., M. KRÓLIKOWSKA; *Investigating the dynamical history of the interstellar object 'Oumuamua*; *Astronomy & Astrophysics*, Vol. 610, L11, (12pp), DOI: 10.1051/0004-6361/201732309, 2018
15. Fulle M., I. Bertini, V. Della Corte, C. Güttler, S. Ivanovski, F. La Forgia, J. Lasue, A. C. Levasseur-Regourd, F. Marzari, F. Moreno, S. Mottola, G. Naletto, P. Palumbo, G. Rinaldi, A. Rotundi, H. Sierks, C. Barbieri, P. L. Lamy, R. Rodrigo, D. Koschny, H. RICKMAN, M. A. Barucci, J.-L. Bertaux, D. Bodewits, G. Cremonese, V. Da Deppo, B. Davidsson, S. Debei, M. De Cecco, J. Deller, S. Fornasier, O. Groussin, P. J. Gutiérrez, H. S. Hviid, W. H. Ip, L. Jorda, H. U. Keller, J. Knollenberg, J. R. Kramm, E. Kühr E., M. Küppers, M. L. Lara, M. Lazzarin, J. J. López-Moreno, X. Shi, N. Thomas, C. Tubiana; *The phase function and density of the dust observed at comet 67P/Churyumov-Gerasimenko*; *Monthly Notices of the Royal Astronomical Society*, Volume 476, Issue 2, Pages 2835–2839, DOI:10.1093/mnras/sty464, 2018
16. Gerig S.-B., Marschall R., Thomas N., Bertini I., Bodewits D., Davidsson B., Fulle M., Ip W.-H., Keller H.U., Küppers M., Preusker F., Scholten F., Su C.C., Toth I., Tubiana C., Wu J.-S., Sierks H., Barbieri C., Lamy P.L., Rodrigo R., Koschny D., RICKMAN H., Agarwal J., Barucci M.A., Bertaux J.-L., Cremonese G., Da Deppo V., Debei S., De Cecco M., Deller J., Fornasier S., Groussin O., Gutierrez P.J., Güttler C., Hviid S.F., Jorda L., Knollenberg J., Kramm J.-R., Kühr E., Lara L.M., Lazzarin M., Lopez Moreno J.J., Marzari F., Mottola S., Naletto G., Ockay N., Vincent J.-B.; *On deviations from free-radial outflow in the inner coma of comet 67P/Churyumov-Gerasimenko*; *Icarus*, Volume 311, Pages 1-22, DOI: 10.1016/j.icarus.2018.03.010, 2018
17. Giuranna M., Fonte S., Longobardo A., Sindoni G., WOLKENBERG P., Formisano V.; *PFS/MEX limb observations of 4.3- $\mu$ m CO<sub>2</sub> non-LTE emission in the atmosphere of Mars*; *Icarus*, Volume 315, Pages 46-60, DOI: 10.1016/j.icarus.2018.06.018, 2018
18. GRYCIUK M., P.PODGÓRSKI, S.GBUREK, T.Mrozek, M.SIARKOWSKI, M.STESLICKI, J.BARYLAK, A.BARYLAK; *The expected fluxes observed by STIX during low solar activity*; *Journal of Atmospheric and Solar-Terrestrial Physics*, Volume 179, Pages 94-96, DOI: 10.1016/j.jastp.2018.06.013, 2018
19. GRZESIAK M., Cesaroni C., Spogli L., De Franceschi G., Romano V.; *Regional Short-Term Forecasting of Ionospheric TEC and Scintillation*; *Radio Science*, DOI: 10.1029/2017RS006310, 2018

20. Hendricks R.J., Ozimek F., Szymaniec K., NAGORNY B., DUNST P., NAWROCKI J., Beattie S., Jian B., Gibble K.; *Cs Fountain Clocks for Commercial Realisations — an Improved and Robust Design*; IEEE Transactions on Ultrasonics, Ferroelectrics and Frequency Control, DOI: 10.1109/TUFFC.2018.2874550, 2018
21. Heriquea Alain, D. Plettemeier, C. Langeç, J. T. Grundmann, V. Ciarletti, T. Ho, W. KOFMAN, B. Agnus, J. Du, W. Fa, O. Gassot, R. Granados-Alfaro, J. Grygorczuk R. Hahnel, C. Hoarau, M. Laabs, C. Le Gac, M. Mütze, S. Ulame; *A radar package for asteroid subsurface investigations: Implications of implementing and integration into the MASCOT nanoscale landing platform from science requirements to baseline design*; Acta Astronautica, 27pp, DOI: 10.1016/j.actaastro.2018.03.058, 2018
22. Hollick S.J., Smith C.W., Pine Z.B., Argall M.R., Joyce C.J., Isenberg P.A., Vasquez B.J., Schwadron N.A., SOKÓŁ J.M., BZOWSKI M., KUBIAK M.A.; *Magnetic Waves Excited by Newborn Interstellar Pickup Ions Measured by the Voyager Spacecraft from 1 to 45 au. I. Wave Properties*; Astrophysical Journal, Volume 863, Issue 1, Article number 75, DOI: 10.3847/1538-4357/aac83b, 2018
23. Hollick S.J., Smith C.W., Pine Z.B., Argall M.R., Joyce C.J., Isenberg P.A., Vasquez B.J., Schwadron N.A., SOKÓŁ J.M., BZOWSKI M., KUBIAK M.A.; *Magnetic Waves Excited by Newborn Interstellar Pickup Ions Measured by the Voyager Spacecraft from 1 to 45 au. II. Instability and Turbulence Analyses*; Astrophysical Journal, Volume 863, Issue 1, Article number 76, DOI: 10.3847/1538-4357/aac839, 2018
24. Hollick S.J., Smith C.W., Pine Z.B., Argall M.R., Joyce C.J., Isenberg P.A., Vasquez B.J., Schwadron N.A., SOKÓŁ J.M., BZOWSKI M., KUBIAK M.A.; *Magnetic Waves Excited by Newborn Interstellar Pickup Ions Measured by the Voyager Spacecraft from 1 to 45 au. III. Observation Times*; Astrophysical Journal, Supplement Series, Volume 237, Issue 2, Article number 34, DOI: 10.3847/1538-4365/aac83a, 2018
25. JANDA A.Z., *Exact solutions and singularities of an X-point collapse in Hall magnetohydrodynamics*; Journal of Mathematical Physics, Volume 59, Issue 6, Article number 061509, DOI: 10.1063/1.5026876, 2018
26. Jiang Z., V. Zhang, Y. Huang, J. Achkar, D. Piester, S. Lin, W. Wu, A. Naumov, S. Yang, J. NAWROCKI, I. Sesia, C. Schlunegger, Z. Yang, M. Fujieda, A. Czubla, H. Esteban, C. Rieck, P. Whibberley; *Use of software-defined radio receivers in two-way satellite time and frequency transfers for UTC computation*; Metrologia Vol. 55, 685–698, DOI:10.1088/1681-7575/aacbe6, 2018
27. KEPA A., B. SYLWESTER, J. SYLWESTER, M. GRYCIUK, M. SIARKOWSKI; *Analysis of the differential emission measure distributions for solar flares observed by RESIK*; Journal of Atmospheric and Solar-Terrestrial Physics, Volume 179, Pages 545-552, DOI: 10.1016/j.jastp.2018.09.004, 2018
28. KOTARBA A.Z., NOWAKOWSKI A.; *Impact of snow cover on impervious surface detection*; International Journal of Remote Sensing, Volume 39, Issue 21, Pages 7607-7627, DOI: 10.1080/01431161.2018.1475775, 2018
29. KOTARBA A.Z.; *Vertical profile of cloud amount over Poland: Variability and uncertainty based on CloudSat-CALIPSO observations*; International Journal of Climatology, Vol.38, 4142-4254p.; DOI: 10.1002/joc.5558, 2018
30. KOWALSKA-LESZCZYŃSKA I., BZOWSKI M., SOKÓŁ J.M., KUBIAK M.A.; *Evolution of the Solar Ly $\alpha$  Line Profile during the Solar Cycle*; Astrophysical Journal, Volume 852, Issue 2, Article number 115, DOI: 10.3847/1538-4357/aa9f2a, 2018
31. KOWALSKA-LESZCZYŃSKA I., BZOWSKI M., SOKÓŁ J.M., KUBIAK M.A.; *Evolution of the solar Ly $\alpha$  line profile during the solar cycle. II. How accurate is the present radiation pressure paradigm for interstellar neutral H in the heliosphere?* The Astrophysical Journal, Volume 868, Number 1, doi.org/10.3847/1538-4357/aae70b, 2018
32. KRÓLIKOWSKA M., P. A Dybczyński; *Dynamical evolution of C/2017 K2 PANSTARRS*; Astronomy & Astrophysics, Vol. 15, A170, DOI: 10.1051/0004-6361/201832917, 2018

33. KRÓLIKOWSKA M., P. A Dybczyński; *How the modified method of orbit quality assessment works for Oort spike comets?* Monthly Notices of the Royal Astronomical Society, Volume 477, Issue 2, Pages 2393–2398, DOI: 10.1093/mnras/sty811, 2018
34. Kulczyk S., WOŹNIAK E., Derek M.; *Landscape, facilities and visitors: An integrated model of recreational ecosystem services*; Ecosystem Services, DOI: 10.1016/j.ecoser.2018.02.016, 2018
35. LEJBA PAWEŁ, TOMASZ SUCHODOLSKI, PIOTR MICHAŁEK, JACEK BARTOSZAK, Stanisław Schillak, STANISŁAW ZAPAŚNIK; *First laser measurements to space debris in Poland*; Advances in Space Research, DOI: 10.1016/j.asr.2018.02.033, 2018
36. Macek W. M., A. KRASIŃSKA, M. V. D. Silveira, D. G. Sibeck, A. WAWRZASZEK, J. L. Burch, C. T. Russell; *Magnetospheric Multiscale Observations of Turbulence in the Magnetosheath on Kinetic Scales*; Astrophysical Journal Letters, Volume 864, Issue 2, Article number L29, DOI: 10.3847/2041-8213/aad9a8, 2018
37. Macek W. M., WAWRZASZEK A., Kucharuk B.; *Intermittent turbulence in the heliosheath and the magnetosheath plasmas based on Voyager and THEMIS data*; Nonlinear Processes in Geophysics, Volume 25, Issue 1, Pages 39-54, DOI: 10.5194/npg-25-39-2018, 2018
38. McComas D.J., Christian E.R., Schwadron N.A., Fox N., Westlake J., Allegrini F., Baker D.N., Biesecker D., BZOWSKI M., Clark G., Cogen C.M.S., Cohen I., Dayeh M.A., Decker R., de Nolfo G.A., Desai M.I., Ebert R.W., Elliott H.A., Fahr H., Frisch P.C., Funsten H.O., Fuselier S.A., Galli A., Galvin A.B., Giacalone J., Gkioullidou M., Guo F., Horanyi M., Isenberg P., Janzen P., Kistler L.M., Korreck K., KUBIAK M.A., Kucharek H., Larsen B.A., Leske R.A., Lugaz N., Luhmann J., Mattheaus W., Mitchell D., Moebius E., Ogasawara K., Reisenfeld D.B., Richardson J.D., Russell C.T., SOKÓŁ J.M., Spence H.E., Skoug R., Sternovsky Z., Swaczyna P., Szalay J.R., Tokumaru M., Wiedenbeck M.E., Wurz P., Zank G.P., Zirnstein E.J. – 2018, *Interstellar Mapping and Acceleration Probe (IMAP): A new NASA mission*, Space Science Reviews, 214:116, 54pp, DOI:10.1007/s11214-018-0550-1, 2018
39. Molotkov I. A., B. ATAMANIUK; *An Analysis of Processes in the Solar Wind in a Thin Layer Adjacent to the Front of the Shock Wave*; ASTROPHYSICAL JOURNAL, Volume: 859, Issue: 1, Article Number: 39, DOI: 10.3847/1538-4357/aaba73, 2018
40. Mrozek T., GBUREK S., SIARKOWSKI M., SYLWESTER B., SYLWESTER J., KEPA A., GRYCIUK M.; *Solar Microflares Observed by SphinX and RHESSI*; Solar Physics, Volume 293, Issue 7, Article number 101, DOI: 10.1007/s11207-018-1319-0, 2018
41. NICOLAU-KUKLINSKA A., Losiak A.; *IF TROILITE IS THE SOURCE OF BUBBLES FORMED IN THE FUSION CRUST?*; METEORITICS & PLANETARY SCIENCE Volume: 53 Pages: 6324-6324 Supplement: 1 Special Issue: SI, 2018
42. Phillips K. J. H., J. SYLWESTER, B. SYLWESTER, M. KOWALIŃSKI, M. SIARKOWSKI, W. TRZEBIŃSKI, S. PŁOCIENIAK, Z. KORDYLEWSKI; *Highly Ionized Calcium and Argon X-Ray Spectra from a Large Solar Flare*; Astrophysical Journal, Volume 863, Issue 1, Article number 10, DOI: 10.3847/1538-4357/aace5b, 2018
43. PŁOCIENIAK S., SZAFORZ Ż.; *Laboratory characterization of bent monocrystal wafers for Bragg X-ray spectroscopy*; Experimental Astronomy, Pages 1-14, DOI: 10.1007/s10686-018-9583-4, 2018
44. Popel S.I., Golub A.P., Zakharov A.V., Zelenyi L.M., Berezhnoy A.A., Zubko E.S., Iten M., Lena R., Sposetti S., Velikodsky Y.I., Tereshchenko A.A., ATAMANIUK B.; *Formation of Dusty Plasma Clouds at Meteoroid Impact on the Surface of the Moon*; JETP Letters, Volume 108, Issue 6, Pages 356-363, DOI: 10.1134/S0021364018180091, 2018
45. Puig L., Pilbratt G., Heske A., Escudero I., Crouzet P.-E., de Vogeleeer B., Symonds K., Kohley R., Drossart P., Eccleston P., Hartogh P., Leconte J., Micela G., Ollivier M., Tinetti G., Turrini D., Vandenbusche B., WOLKENBERG P.; *The phase a study of the ESA M4 mission candidate ARIEL*; Experimental Astronomy, Volume 46, Issue 1, pp 211–239, DOI: 10.1007/s10686-018-9604-3, 2018

46. RICKMAN H., BŁĘCKA M.I., GURGUREWICZ J., Jørgensen U.G., Staby E., SZUTOWICZ S., ZALEWSKA N.; *Water in the history of Mars: An assessment*; Planetary and Space Science DOI: 10.1016/j.pss.2018.08.003, 2018
47. Rooney T.O, Krans S.R., MÈGE D., Arnaud N., Korme T., Kappelman J., Yirgu G.; *Constraining the Magmatic Plumbing System in a Zoned Continental Flood Basalt Province*; Geochemistry, Geophysics, Geosystems, Vol. 19, Issue 10 pages 3917-3944, DOI: 10.1029/2018GC007724, 2018
48. RYBUS T., K. SEWERYN, J. OLEŚ, F. L. BASMADJI, K. TARENKO, R. MOCZYDŁOWSKI, T. BARCIŃSKI, J. Kindracki, Ł. Mężyk, P. Paszkiewicz, P. Wolański; *Application of a planar air-bearing microgravity simulator for demonstration of operations required for an orbital capture with a manipulator*; Acta Astronautica, Volume 155, Pages 211-229, DOI: 10.1016/j.actaastro.2018.12.004, 2018
49. Schwadron N.A., Allegrini F., BZOWSKI M., Christian E.R., Dayeh M.A., Desai M.I., Fairchild K., Frisch P.C., Funsten H.O., Fuselier S.A., Galli A., Janzen P., KUBIAK M.A., McComas D.J., Moebius E., Reisenfeld D.B., SOKÓŁ J.M., Swaczyna P., Szalay J.R., Wurz P., Zirnstein E.J. ; *Time dependence of the IBEX ribbon and the globally distributed energetic neutral atom flux using the first 9 years of observations*, The Astrophysical Journal Supplement Series, Volume 239, Number 1, DOI:10.3847/1538-4365/aae48e, 2018
50. Schwadron, N.A., BZOWSKI, M.; *The heliosphere is not round*, The Astrophysical Journal, Vol. 862, 11, 7pp., DOI: 10.3847/1538-4357/aacbcf, 2018
51. SEWERYN K., J.Z. Sasiadek; *Satellite angular motion classification for active on-orbit debris removal using robots*; Aircraft Engineering and Aerospace Technology, DOI:10.1108/AEAT-01-2018-0049, 2018
52. ŚLIWIŃSKA J., Wińska M., NASTULA J.; *Terrestrial water storage variations and their effect on polar motion*; Acta Geophysica 23pp, DOI: 10.1007/s11600-018-0227-x, 2018
53. Stanica Dragos Armand, Dumitru Stanica, JAN BŁĘCKI, Tomasz Ernst, Waldemar Józwiak, JAN SŁOMIŃSKI; *Pre-seismic geomagnetic and ionosphere signatures related to the Mw5.7 earthquake occurred in Vrancea zone on September 24, 2016*; Acta Geophysica, Volume 66, Issue 2, pp 167–177, DOI: 10.1007/s11600-018-0115-4, 2018
54. STANISLAWSKA I., Gulyaeva T., GRYNYSZYNA-POLIUGA O., Pustovalova L.; *Ionospheric Weather During Five Extreme Geomagnetic Superstorms Since IGY Deduced with the Instantaneous Global Maps GIM-foF2*; SPACE WEATHER-THE INTERNATIONAL JOURNAL OF RESEARCH AND APPLICATIONS, Volume 15, Issue 3, 26pp, DOI: 10.1029/2018SW001945, 2018
55. SWACZYNA P., BZOWSKI M., KUBIAK M.A., SOKÓŁ J.M., Fuselier S.A., Galli A., Heirtzler D., Kucharek H., McComas D.J., Möbius E., Schwadron N.A., Wurz P.; *Interstellar Neutral Helium in the Heliosphere from IBEX Observations. V. Observations in IBEX-Lo ESA Steps 1, 2, and 3*; Astrophysical Journal, Volume 854, Issue 2, Article number 119, DOI: 10.3847/1538-4357/aaabfb, 2018
56. Szymaniec K., R. J. Hendricks, K. Turza, B. NAGÓRNY, P. DUNST, J. NAWROCKI, P. Krehlik, Ł. Śliwczyński A.; Czubla, *Operation of caesium fountain frequency standards with remote hydrogen maser references*, Metrologia, Volume 55, 8pp DOI: 10.1088/1681-7575/aae40d, 2018
57. Tinetti, G.; WOLKENBERG P., RATAJ M., BUJWAN W., BŁĘCKA M., BANASZKIEWICZ M. , GRACZYK R., SKUP K., WAWER P., WAWRZASZEK A., and 230 others authors; *A chemical survey of exoplanets with ARIEL*; Experimental Astronomy, Volume 46, Issue 1, pp 135–209, DOI: 10.1007/s10686-018-9598-x, 2018
58. Turrini D., Miguel Y., Zingales T., Piccialli A., Helled R., Vazan A., Oliva F., Sindoni G., Panić O., Leconte J., Min M., Pirani S., Selsis F.j, Coudé du Foresto V.I, Mura A., WOLKENBERG P.; *The contribution of the ARIEL space mission to the study of planetary formation*; Experimental Astronomy, Pages 1-21, DOI: 10.1007/s10686-017-9570-1, 2018
59. WAJER P., WOŹNIAK E., KOFMAN W., RYBICKI M., LEWIŃSKI S.; *Simulation of SAR images of urban areas by using the ray tracing method with measured values of backscatter coefficients*; INTERNATIONAL JOURNAL OF REMOTE SENSING, Volume: 39 Issue: 9 Pages: 2671-2689, DOI: 10.1080/01431161.2018.1430396, 2018

60. WASILEWSKI T.G.; *Evaluation of drilling-based water extraction methods for Martian ISRU from mid-latitude ice resources*; Planetary and Space Science, Volume 158, Pages 16-24, DOI: 10.1016/j.pss.2018.05.012, 2018
61. Wińska M., ŚLIWIŃSKA J.; *Assessing hydrological signal in polar motion from observations and geophysical models*; Studia Geophysica et Geodaetica, 24pp., DOI: 10.1007/s11200-018-1028-z, 2018
62. Witkowski M., Munoz-Rodriguez R., Raczyński A., Zaremba J., NAGÓRNY B., Zuchowski P.S., Ciuryło R., Zawada M.; *Photoionization cross sections of the 5S<sub>1/2</sub> and 5P<sub>3/2</sub> states of Rb in simultaneous magneto-optical trapping of Rb and Hg*; Physical Review A, Volume 98, Issue 5, Article number 053444, 2018
63. WOLKENBERG P., Piccioni G., BANASZKIEWICZ M.; *Vertical temperature profiles in the Venus mesosphere obtained by two retrieval methods from the VIRTIS-VEX observations*; Journal of Quantitative Spectroscopy and Radiative Transfer, Volume 217, Pages 407-415, DOI: 10.1016/j.jqsrt.2018.06.010, 2018
64. WOŹNIAK E., KOFMAN W., LEWIŃSKI S., WAJER P., RYBICKI M., ALEKSANDROWICZ S., WŁODARKIEWICZ A.; *Multi-temporal polarimetry in land-cover classification*; International Journal of Remote Sensing, 18pp, DOI: 10.1080/01431161.2018.1483084, 2018
65. WOŹNIAK E., Kulczyk S., Derek M.; *From intrinsic to service potential: an approach to assess tourism landscape potential*; Landscape and Urban Planning, Volume 170, Pages 209-220, DOI: 10.1016/j.landurbplan.2017.10.006, 2018
66. Zhang S., A. Santangelo, M. Feroci, Y. Xu, F. Lu, S. Brandt, M. Hernanz, M. MICHALSKA, P. ORLEAŃSKI, Luca Baldini, Enrico Bozzo et al.; *The enhanced X-ray Timing and Polarimetry mission—eXTP*; SCIENCE CHINA Physics, Mechanics & Astronomy, Volume 62, Issue 2: 029502, DOI:10.1007/s11433-018-9309-2, 2018
67. Zucca P., D. E. Morosan, A. P. Rouillard, R. Fallows, P. T. Gallagher, J. Magdalenic, K.-L. Klein, G. Mann, C. Vocks, E. P. Carley, M. M. Bisi, E. P. Kontar, H. ROTHKAEHL, B. Dabrowski, A. Krankowski, J. Anderson, A. Asgekar, M. E. Bell, M. J. Bentum, P. Best, R. Blaauw, F. Breitling, J. W. Broderick, W. N. Brouw, M. Brügggen, H. R. Butcher, B. Ciardi, E. de Geus, A. Deller, S. Duscha, J. Eisloffel, M. A. Garrett, J. M. Grießmeier, A. W. Gunst, G. Heald, M. Hoeft, J. Hörandel, M. Iacobelli, E. Juette, A. Karastergiou, J. van Leeuwen, D. McKay-Bukowski, H. Mulder, H. Munk, A. Nelles, E. Orru, H. Paas, V. N. Pandey, R. Pekal, R. Pizzo, A. G. Polatidis, W. Reich, A. Rowlinson, D. J. Schwarz, A. Shulevski, J. Sluman, O. Smirnov, C. Sobey, M. Soida, S. Thoudam, M. C. Toribio, R. Vermeulen, R. J. van Weeren, O. Wucknitz and P. Zarka; *Shock location and CME 3D reconstruction of a solar type II radio burst with LOFAR*; ASTRONOMY & ASTROPHYSICS, Vol. 615, A89, DOI: 10.1051/0004-6361/201732308, 2018

## Publikacje ukazujące się w czasopismach recenzowanych

wyróżnionych przez Journal Citation Reports (JCR, lista B)

1. Chmaj G., SEWERYN K., RYBUS T., Buratowski T., Musioł M., BANASZKIEWICZ M.; *The dynamics aspects of modeling and control of the flying robot with attached two Degree of Freedom manipulator*; GeoPlanet: Earth and Planetary Sciences, Aerospace Robotics III, 121-148, 10.1007/978-3-319-94517-0\_8, 2018
2. Kulczyk S., WOŹNIAK E., Derek M.; *Ecosystem services in tourism and recreation research - the example of fishing in the Great Masurian Lakes, Poland*; Problemy Ekologii Krajobrazu [The Problems of Landscape Ecology] , Vol. 44, 79-88p., 2017
3. RYBUS T., SEWERYN K., SAŚIADEK J.Z.; *Nonlinear Model Predictive Control (NMPC) for free-floating space manipulator*; GeoPlanet: Earth and Planetary Sciences, 17-29p, DOI: 10.1007/978-3-319-94517-0\_2, 2018
4. WAWRZASZEK R., M. Waraksa, M. KALARUS, G. JUCHNIKOWSKI, T. Górski; *Detection and Decoding of AIS Navigation Messages by a Low Earth Orbit Satellite*; GeoPlanet: Earth and Planetary Sciences, 45-62p, DOI: 10.1007/978-3-319-94517-0\_4, 2018

5. Wolski L., Matelski W., SEWERYN K., PAŚKO P.; *Supercapacitors based driving system for space fast surface sample acquisition system [Superkondensatorowy układ napędowy gruntowego próbnika kosmicznego]*; Przegląd Elektrotechniczny, Volume 94, Issue 5, Pages 153-158; DOI: 10.15199/48.2018.05.27, 2018

## Pozostałe publikacje naukowe

1. Barbera Marco; Ugo Lo Cicero; Luisa Sciortino; Fabio D'Anca; Giancarlo Parodi; MIROSLAW RATAJ; SZYMON POLAK; Adam Pilch; Norbert Meidinger; Salvatore Sciortino; Gregor Rauw; Graziella Branduardi Raymont; Teresa Mineo; Emanuele Perinati; Paolo Giglio; Alfonso Collura; Salvatore Varisco; Roberto Candia; *ATHENA WFI optical blocking filters development status toward the end of the instrument phase-A*; Proceedings of SPIE - The International Society for Optical Engineering, Volume 10699, Article number 106991K, DOI: 10.1117/12.2314448, 2018
2. Barret D., Lam Trong T., Den Herder J.-W., Piro L., Cappi M., Houvelin J., Kelley R., Mas-Hesse J.M., Mitsuda K., Paltani S., Rauw G., Rozanska A., Wilms J., Bandler S., Barbera M., Barcons X., Bozzo E., Ceballos M.T., Charles I., Costantini E., Decourchelle A., Den Hartog R., Duband L., Duval J.-M., Fiore F., Gatti F., Goldwurm A., Jackson B., Jonker P., Kilbourne C., MacCuli C., Mendez M., Molendi S., ORLEANSKI P., Pajot F., Pointecouteau E., Porter F., Pratt G.W., Prêle D., Ravera L., Sato K., Schaye J., Shinozaki K., Thibert T., Valenziano L., Valette V., Vink J., Webb N., Wise M., Yamasaki N., Douchin F., Mesnager J.-M., Pontet B., Pradines A., Branduardi-Raymont G., Bulbul E., Dadina M., Etori S., Finoguenov A., Fukazawa Y., Janiuk A., Kaastra J., Mazzotta P., Miller J., Miniutti G., Naze Y., Nicastro F., Scioritino S., Simonescu A., Torrejon J.M., Frezouls B., Geoffray H., Peille P., Aicardi C., André J., Daniel C., Clénet A., Etcheverry C., Gloaguen E., Hervet G., Jolly A., Ledot A., Maussang I., Paillet A., Schmitter R., Travert J.-M., Vella B., Damery J.-C., Boyce K., D'Ippiro M., Lotti S., Schwander D., Smith S., Van Leeuwen B.-J., Van Weers H., Clerc N., Cobo B., Dauser T., De Plaa J., Kirsch C., Cucchetti E., Eckart M., Ferrando P., Natalucci L.; *The ATHENA X-ray Integral Field Unit (X-IFU)*; Proceedings of SPIE - The International Society for Optical Engineering Volume 10699, Article number 106991G, 2018
3. BARYLAK J., BARYLAK A., MROZEK T., STĘŚLICKI M., PODGÓRSKI P.; *Investigation of cosmic ray and solar energetic particle background of STIX using GEANT4 simulation*; Proceedings of SPIE - The International Society for Optical Engineering Volume 10808, Article number 1080848, DOI: 10.1117/12.2501722, 2018
4. BASMADJI F.L., BIEDRZYCKA A., PAWLUS M., SEWERYN K., SAŚIADEK J.; *Naziemna weryfikacja manewrów realizowanych przez robotę kosmicznego*; Prace naukowe Politechniki Warszawskiej – Elektronika, z.196, 35-50p., 2018
5. Birylo M., Rzepecka Z., NASTULA J.; *Assessment of the Water Budget from GLDAS Model*; Proceedings - 2018 Baltic Geodetic Congress, BGC-Geomatics 2018, Article number 8453671, Pages 86-90, 2018
6. Chen C. Y., Tiger J. Y. Liu, I. T. Lee, H. ROTHKAEHL, D. PRZEPIORKA, Loren C. Chang, B. MATYJASIAK, K. Ryu, K.-I. Oyama; *The Midlatitude Trough and the Plasmopause in the Nighttime Ionosphere Simultaneously Observed by DEMETER During 2006–2009*; Journal of Geophysical Research: Space Physics, 123, 5917 – 5932, DOI: 10.1029/2017JA024840, 2018
7. CIAŻELA JAKUB, Roszak Sandra; *NATURISTS OF THE LUBIEWO RESORT, MIĘDZYDROJE, POLAND – CHARACTERISTICS AND MOTIVATIONS*; Geoprzestrzeń 1, 97-111, 2018
8. CIAŻELA M., D. MEGE, J. CIAŻELA, J. GURGUREWICZ, P. TESSON; *Lithology of the Martian surface from thermal remote sensing data*; MINERALOGIA - SPECIAL PAPERS, Vol.48, p.42, 2018
9. Dąbrowska-Szewczyk E., A. Zawadzka, P. Kowalczyk, R. Podgórski, M. Wojasiński, T. Ciach, R. GRACZYK, T. Zawistowski, P. Kukołowicz; *[P213] Influence of beam spoiler and air gap on dose distribution in build-up region for X6 MV static field*; Physica Medica, Volume 52, Supplement 1, Pages 161-162, DOI: 10.1016/j.ejmp.2018.06.505, 2018
10. De Angelis A., Tatischeff V., Grenier I.A., McEnery J., Mallamaci M., Tavani M., ORLEANSKI P and other 230 authors; *Science with e-ASTROGAM: A space mission for MeV–GeV gamma-ray*

11. Dudnik, O.V., Lazarev I.V., Kurbatov EV., KOWALIŃSKI M., PODGORSKI P., ŚCISŁOWSKI D.; *Advisability of the axes orientation in p-terphenyl crystal of scintillation detector of the charged particle monitor in ChemiX solar X-ray spectrophotometer*; Space Science and Technology, Vol.3 (112), p. 33-39 DOI: 10.15407/knit2018.03.033, 2018
12. DUNST P., NAGORNY B., LEMAŃSKI D., NOGAŚ P., NAWROCKI J., Hendricks R.J., Ozimek F., Szymaniec K.; *Preliminary evaluation of the AOS-CsF1 primary frequency standard-2017*; 2017 Joint Conference of the European Frequency and Time Forum and IEEE International Frequency Control Symposium, Article number 8088980, Page 628, DOI: 10.1109/FCS.2017.8088980, 2018
13. Dybczyński P. A., M. KRÓLIKOWSKA; *Have we missed an interstellar comet four years ago?*; arXiv eprint, No. 1810.12766, 2018
14. Eyraud C., Hérique A., Geffrin J.M., KOFMAN W.; *Imaging the inner structure of a comet from few measurements in a bistatic scenario: Case of a scale model*; IET Conference Publications, Volume 2018, Issue CP741, 2018
15. Feroci Marco, Mahdi Ahangarianabhari, Giovanni Ambrosi, Filippo Ambrosino, Andrea Argan, Marco Barbera, Joerg Bayer, Pierluigi Bellutti, Bruna Bertucci, Giuseppe Bertuccio, Giacomo Borghi, Enrico Bozzo, Franck Cadeaux, Riccardo Campana, Francesco Ceraudo, Tianxiang Chen, Daniela Cirrincione, Alessandra De Rosa, Ettore Del Monte, Sergio Di Cosimo, Sebastian Diebold, Yuri Evangelista, Qingmei Fan, Yannick Favre, Francesco Ficorella, Fabio Fuschino, Olivier Gevin, Marco Grassi, Bin Hong, Hanqi Mao, Vladimir Karas, Tom Kennedy, Claudio Labanti, Olivier Limousin, Ugo Lo Cicero, Fangjun Lu, Tao Luo, Piero Malcovati, Adrian Martindale, Aline Meuris, MALGROZATA MICHALSKA, Alfredo Morbidini, Fabio Muleri, PIOTR ORLEAŃSKI, Stephane Paltani, Teng Pan, Emanuele Perinati, Antonino Picciotto, Martin Pohl, Irina Rashvskaia, Andrea Santangelo, Stéphane Schanne, KORNAD SKUP, Jiri Svoboda, Chris Tenzer, Andrea Vacchi, Dave Walton, Berend Winter, Xin Wu, Yupeng Xu, Gianluigi Zampa, Nicola Zampa, Silvia Zane, Andrzej Zdziarski, Long Zhang, Shu Zhang, Shuangnan Zhang, Wenda Zhang, Xiaoli Zhang, Yupeng Zhou, Nicola Zorzi; *The Large Area Detector onboard the eXTP mission*; Proceedings of SPIE - The International Society for Optical Engineering, Volume 10699, Article number 106991C, DOI: 10.1117/12.2312466, 2018
16. Galano D., Bemporad A., Buckley S., Cernica I., Dániel V., Denis F., De Vos L., Fineschi S., Galy C., GRACZYK R., Horodyska P., Jacob J., Jansen R., Kranitis N., Kurowski M., LADNO M., Ledent P., Loreggia D., Melich R., Mollet D., Mosdorf M., Paschalis A., Peresty R., Purica M., Radzik B., RATAJ M., Rougeot R., Salvador L., Thizy C., Versluys J., Walczak T., Zarzycka A., Zender J., Zhukov A.; *Development of ASPIICS: A coronagraph based on Proba-3 formation flying mission*; Proceedings of SPIE - The International Society for Optical Engineering, Volume 10698, Article number 106982Y, 2018
17. Hernanz M., S. Brandt, M. Feroci, P. ORLEANSKI, A. Santangelo, S. Schanne, Xin Wu, J. in't Zand, S. N. Zhang, Y. P. Xu, E. Bozzo, Y. Evangelista, J. L. Gálvez, C. Tenzer, F. Zwart, F. J. Lu, S. Zhang, T. X. Cheng, F. Ambrosino, A. Argan, E. Del Monte, C. Budtz-Jorgensen, N. Lund, P. Olsen, C. Mansanet, R. Campana, F. Fuschino, C. Labanti, A. Rachevski, A. Vacchi, G. Zampa, N. Zampa, I. Rashevskaya, P. Bellutti, G. Borghi, F. Ficorella, A. Picciotto, N. Zorzi, O. Limousin, A. Meris; *The wide field monitor onboard the eXTP mission*; Proceedings of SPIE - The International Society for Optical Engineering, Volume 10699, Article number 1069948, DOI: 10.1117/12.2313214, 2018
18. JENEROWICZ M., BANASZKIEWICZ M.; *ASTEROID (21) LUTETIA: SEMI-AUTOMATIC IMPACT CRATERS DETECTION AND CLASSIFICATION*; International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, Volume 42, Issue 2, Pages 479-486, DOI: 10.5194/isprs-archives-XLII-2-479-2018, 2018
19. KACZOROWSKI M., Kasza D., ZDUNEK R., WRONOWSKI R.; *Application of observations of recent tectonic activity in the Świebodzice Depression (the Sudetes, SW Poland) in assessing seismic hazard in the Fore-Sudetic Monocline*; E3S Web of Conferences Volume 55, Article number 00001, 23rd Autumn School of Geodesy, DOI: 10.1051/e3sconf/20175500001, 2018
20. Kasza D., Kowalski A., Wojewoda J., KACZOROWSKI M.; *Indicators of recent geodynamic activity in the Książ Castle area (Świebodzice Unit, Sudetes) in the light of structural analysis and geodetic*



measurements; E3S Web of Conferences Volume 29, Article number 00021, DOI: 10.1051/e3sconf/20182900021, 2018

21. Kozłowski S., KUREK K., Skarzynski J., Szczygielska K., DARMETKO M.; *Investigation on adaptive satellite communication system performance using SDR technique*; MIKON 2018 - 22nd International Microwave and Radar Conference, Pages 363-366, DOI: 10.23919/MIKON.2018.8405226, 2018
22. Lewandowski W., L. Błaszkiwicz, B. Śmierciak, M. POŻOGA, J. Kijak, A. Krankowski, K. Chyży, H. ROTHKAEHL, R. Pękal, T. Sidorowicz, M. Sendyk, M. Curyło, B. MATYJASIAK; *Observations of the interstellar scattering of pulsars with the POLFAR stations*; 2018 Baltic URSI Symposium (URSI), No. 17899165, DOI: 10.23919/URSI.2018.8406733, 2018
23. MAKOWSKI A.E., BARYLAK J., STĘŚLICKI M., SZAFORZ Z., PODGÓRSKI P., BAKAŁA J., SCISŁOWSKI D.; *Geant4-based simulations of the x-ray luminescence background in the rotating drum spectrometer/SOLPEX*; Proceedings of SPIE - The International Society for Optical Engineering, Volume 10808, Article number 1080846, DOI: 10.1117/12.2501715, 2018
24. MAREK M., R. SCHREIBER; *Is the AKR Cyclotron Maser Instability a self-organized criticality system?* Planetary Radio Emissions VIII, 269-277, Proceedings of the 8th International Workshop on Planetary, Solar and Heliospheric Radio Emissions held at Seggau near Graz, Austria, 2018
25. Parodi Giancarlo, Fabio D'Anca, Ugo Lo Cicero, Luisa Sciortino, MIROSLAW RATAJ, SZYMON POLAK, Adam Pilch, Norbert Meidinger, Kurt Dittrich, Johannes Hartwig, Valérie Samain, Alfonso Collura, Salvatore Ferruggia Bonura, Antonino Buttacavoli, Marco Barbera; *Structural modelling and mechanical tests supporting the design of the ATHENA X-IFU thermal filters and WFI optical blocking filter*; Proceedings of SPIE - The International Society for Optical Engineering, Volume 10699, Article number 106994C, DOI: 10.1117/12.2314451, 2018
26. Pascale E., Bezawada N., Barstow J., Beaulieu J.-P., Bowles N., Coudé Du Foresto V., Coustenis A., Decin L., Drossart P., Eccleston P., Encrenaz T., Forget F., Griffin M., Güdel M., Hartogh P., Heske A., Lagage P.-O., Leconte J., Malaguti P., Micela G., Middleton K., Min M., Moneti A., Morales J.C., Mugnai L., Ollivier M., Pace E., Papageorgiou A., Pilbratt G., Puig L., RATAJ M., Ray T., Ribas I., Rocchetto M., Sarkar S., Selsis F., Taylor W., Tennyson J., Tinetti G., Turrini D., Vandenbussche B., Venot O., Waldmann I.P., WOLKENBERG P., Wright G.t, Zapatero Osorio M.-R., Zingales T.; *The ARIEL space mission*; Proceedings of SPIE - The International Society for Optical Engineering, Volume 10698, Article number 106980H, DOI: 10.1117/12.2311838, 2018
27. Patkó L., J.CIAŻĘLA, L. Aradi, N. Liptai, I. Kovács, F. Holtz, C. Szabó; *Fe and Cu isotope signatures in sulfide blebs from various upper mantle xenoliths from the Nógrád-Gömör Volcanic Field (Northern Pannonian Basin)*; MINERALOGIA - SPECIAL PAPERS, Vol.48, p.72, 2018
28. Porczek M., D. Rucińska, S. LEWIŃSKI; *Using raster and vector data to identify objects for classify in flood risk. A case study: Raciborz*; E3S Web of Conferences, Volume 29, Article number 00026, 17th Conference of PhD Students and Young Scientists, DOI: 10.1051/e3sconf/20182900026, 2018
29. POŻOGA M., B. MATYJASIAK, H. ROTHKAEHL, D. PRZEPIÓRKA, M. GRZESIAK, R. WRONOWSKI; *Observations of the geomagnetic storm 27-28.05.2017 with LOFAR PL610*; Proceedings of the Polish Astronomical Society, Vol. 7, pp.91-93, 2018
30. Prinsloo D.S., Ruiter M., Arts M., Marel J.V.D., Boonstra A.J., Kruithof G., Wise M., Falcke H., Klein-Wolt M., ROTHKAEHL H., Cecconi B., Dekkali M., Ping J.; *EMI modelling of an 80 kHz to 80 MHz wideband antenna and low-noise amplifier for radio astronomy in space*; IET Conference Publications, Volume 2018, Issue CP741, DOI:10.1049/cp.2018.0820, 2018
31. ROTHKAEHL H., M. POŻOGA, M. MORAWSKI, B. MATYJASIAK, D. PRZEPIÓRKA, M. GRZESIAK, R. WRONOWSKI; *Near Earth space monitoring with LOFAR PL610 station in Borówiec*; Proceedings of the Polish Astronomical Society, Vol. 7, 48-54, 2018
32. RYBUS T., SEWERYN K., Sasiadek J.Z.; *Application of predictive control for manipulator mounted on a satellite*; Archives of Control Sciences, Volume 28, Issue 1, Pages 105-118, DOI: 10.24425/119079, 2018

33. SEWERYN K., RYBUS T., Colmenarejo P., Mollinedo L., Novelli G., OLEŚ J., Pietras M., SASIADEK J.Z., Scheper M., TARENKO K.; *Validation of the Robot Rendezvous and Grasping Manoeuvre Using Microgravity Simulators*; 2018 IEEE International Conference on Robotics and Automation (ICRA), DOI:10.1109/ICRA.2018.8460475, 2018
34. SKUP K., POLAK S., RATAJ M., Życki p., Róžańska A.; *Polish contribution to the ATHENA Wide Field Imager*; Proceedings of the Polish Astronomical Society, Vol. 7, 349-354, 2018
35. Tatischeff V., A. De Angelis, M. Tavani, I. Grenier, U. Oberlack, L. Hanlon, R. Walter, A. Argan, P. von Ballmoos, A. Bulgarelli, I. Donnarumma, M. Hernanz, I. Kuvvetli, M. Mallamaci, M. Pearce, A. Zdziarski, A. Aboudan, M. Ajello, G. Ambrosi, D. Bernard, E. Bernardini, V. Bonvicini, A. Brogna, M. Branchesi, C. Budtz-Jorgensen, A. Bykov, R. Campana, M. Cardillo, S. Ciprini, P. Coppi, P. Cumani, R. M. Curado da Silva, D. De Martino, R. Diehl, M. Doro, V. Fioretti, S. Funk, G. Ghisellini, J. E. Grove, F. Giordano, C. Hamadache, D. H. Hartmann, M. Hayashida, J. Isern, G. Kanbach, J. Kiener, J. Knödseder, C. Labanti, P. Laurent, M. Leising, O. Limousin, F. Longo, K. Mannheim, M. Marisaldi, M. Martinez, N. M. Mazziotta, J. E. McEnery, S. Mereghetti, G. Minervini, A. Moiseev, A. Morselli, K. Nakazawa, P. ORLEANSKI, J. M. Paredes, B. Patricelli, J. Peyré, G. Piano, M. Pohl, R. Rando, M. Roncadelli, F. Tavecchio, D. J. Thompson, R. Turolla, A. Ulyanov, A. Vacchi, X. Wu, A. Zoglauer; *The e-ASTROGAM gamma-ray space observatory for the multimessenger astronomy of the 2030s*; Proceedings of SPIE - The International Society for Optical Engineering, Volume 10699, Article number 106992J, DOI: 10.1117/12.2315151, 2018
36. WITEK P., WAJER P., BANASZKIEWICZ M., KOFMAN W., Czechowski L., Pommerol A.; *Photochemical model of the Martian atmosphere to investigate the fate of trace gases*; European Planetary Science Congress Abstracts, Vol. 12, EPSC2018-648, 2018
37. WRONOWSKI; *Ionospheric scintillations over the polish LOFAR station PL610*; Proceedings of the Polish Astronomical Society, Vol. 7, pp.94-96, 2018
38. ZDUNEK R., KACZOROWSKI M., R. WRONOWSKI, D. Kasza; *Relations Between Distribution of Extension and Compressions Phases of Świebodzice Depression Massif Registered by Water-Tube Tiltmeters With Southern Fault Wings Movements Observed On GPS Vector*; Abstracts of the 19th Czech-Polish Workshop "On Recent Geodynamics Of Central Europe", 27-28, 2018

### **Monografie** (lub ich rozdziały) autorstwa pracowników jednostki

1. Ernst Hauber, DANIEL MÈGE, Thomas Platz, Petr Brož; *"Endogenic Processes"*, Planetary Geology, part of the Astronomy and Planetary Sciences book sub series, 147-183, DOI: 10.1007/978-3-319-65179-8\_8, 2018