

## L I S T A

**articolelor științifice apărute sau acceptate la publicare în reviste ISI din străinătate în anul 2017**

1. Jarrett T. H., Cluver M. E., Magoulas C., Bilicki M., Alpaslan M., Bland-Hawthorn J., Brough S., Brown M. J. I., Croom S., Driver S., Holwerda B. W., Hopkins A. M., Loveday J., Norberg P., Peacock J. A., **Popescu C. C.**, Sadler E. M., Taylor E. N., Tuffs R. J., Wang L., 2017, *Galaxy and Mass Assembly (GAMA): Exploring the WISE Web in G12*, The Astrophysical Journal, Volume 836, Issue 2, article id. 182, 28 pp. (SRI: 2.381)
2. Miglio A., Chiappini C., Mosser B., Davies G. R., Freeman K., Girardi L., Jofre P., Kawata D., Rendle B. M., Valentini M., Casagrande L., Chaplin W. J., Gilmore G., Hawkins K., Holl B., Appourchaux T., Belkacem K., Bossini D., Brogaard K., Goupil M.-J., Montalbán J., Noels A., Anders F., Rodrigues T., Piotto G., Pollacco D., Rauer H., Prieto C. A., Avelino P. P., Babusiaux C., Barban C., Barbay B., Basu S., Baudin F., Benomar O., Bienayme O., Binney J., Bland-Hawthorn J., Bressan A., Cacciari C., Campante T. L., Cassisi S., Christensen-Dalsgaard J., Combes F., Creevey O., Cunha M. S., Jong R. S., Laverny P., Degl'Innocenti S., Deheuvels S., Depagne E., Ridder J., Matteo P. D., Mauro M. P. D., Dupret M.-A., Eggenberger P., Elsworth Y., Famaey B., Feltzing S., Garcia R. A., Gerhard O., Gibson B. K., Gizon L., Haywood M., Handberg R., Heiter U., Hekker S., Huber D., Ibata R., Katz D., Kawaler S. D., Kjeldsen H., Kurtz D. W., Lagarde N., Lebreton Y., Lund M. N., Majewski S. R., Marigo P., Martig M., Mathur S., Minchev I., Morel T., Ortolani S., Pinsonneault M. H., Plez B., Moroni P. G. P., **Pricopi D.**, Recio-Blanco A., Reyl & C., Robin A., Roxburgh I. W., Salaris M., Santiago B. X., Schiavon R., Serenelli A., Sharma S., Aguirre V. S., Soubiran C., Steinmetz M., Stello D., Strassmeier K. G., Ventura P., Ventura R., Walton N. A., Worley C. C., 2017, *PLATO as it is : A legacy mission for Galactic archaeology*, Astronomische Nachrichten, vol. 338, issue 6, pp. 644-661 (SRI 0.568)
3. Evans A., Banerjee D. P. K., Gehrz R. D., Joshi V., Ashok N. M., Ribeiro V. A. R. M., Darnley M. J., Woodward C. E., Sand D., Marion G. H., Diamond T. R., Eyres S. P. S., Wagner R. M., Helton L. A., Starrfield S., Shenoy D. P., Krautter J., Vacca W. D., **Rushton M. T.**, 2017, *Rise and fall of the dust shell of the classical nova V339 Delphini*, Monthly Notices of the Royal Astronomical Society, Volume 466, Issue 4, p.4221-4238 (SRI 1.855)
4. Grootes M. W., Tuffs R. J., **Popescu C. C.**, Norberg P., Robotham A. S. G., Liske J., Andrae E., Baldry I. K., Gunawardhana M., Kelvin L. S., Madore B. F., Seibert M., Taylor E. N., Alpaslan M., Brown M. J. I., Cluver M. E., Driver S. P., Bland-Hawthorn J., Holwerda B. W., Hopkins A. M., Lopez-Sanchez A. R., Loveday J., **Rushton M. T.**, 2017, *Galaxy And Mass Assembly (GAMA): Gas Fueling of Spiral Galaxies in the Local Universe. I. The Effect of the Group Environment on Star Formation in Spiral Galaxies*, The Astronomical Journal, Volume 153, Issue 3, article id. 111, 49 pp. (SRI: 2.381)
5. **Popescu C. C.**, Yang R., Tuffs R. J., Natale G., **Rushton M.**, Aharonian F., 2017, *A radiation transfer model for the Milky Way: I. Radiation fields and application to high-energy astrophysics*, Monthly Notices of the Royal Astronomical Society, Volume 470, Issue 3, p.2539-2558 (SRI 1.855)
6. Eyres S. P. S., Bewsher D., Hillman Y., Holdsworth D. L., **Rushton M. T.**, Bresnahan D., Evans A., Mroz P., 2017, *Temporal resolution of a pre-maximum halt in a classical nova: V5589 Sgr observed with STEREO HI-1B*, Monthly Notices of the Royal Astronomical Society, Volume 467, Issue 3, p.2684-2689 (SRI 1.855)

7. **Dănilă; B.**, Harko T., Lobo F. S. N., Mak M. K., 2017, *Hybrid metric-Palatini stars*, Physical Review D, Volume 95, Issue 4, id.044031 (SRI 1.280)
8. Shoaib M., Kashif A. R., **Szűcs-Csillik I.**, 2017, *On the planar central configurations of rhomboidal and triangular four- and five-body problems*, Astrophysics and Space Science, Volume 362, Issue 10, article id.182, 19 pp. (SRI 0.509)
9. **Dumitru B. A., Birlan M., Popescu M., Nedelcu D. A.**, 2017, *Association between meteor showers and asteroids using multivariate criteria*, Astronomy & Astrophysics, Volume 607, id.A5, 22 pp. (SRI 1.984)
10. Natale G., **Popescu C. C.**, Tuffs R. J., Clarke A. J., Debattista V. P., Fischera J., Pasetto S., **Rushton M.**, Thirlwall J. J., 2017, *Ray-tracing 3D dust radiative transfer with DART-Ray: code upgrade and public release*, eprint arXiv:1709.03802, accepted for publication, Astronomy & Astrophysics (SRI 1.984)
11. Vaduvescu O., Macias A. A., Tudor V., Predatu M., Galad A., Gajdos S., Vilagi J., Stevance H. F., Errmann R., Unda-Sanzana E., Char F., Peixinho N., **Popescu M., Sonka A.**, Cornea R., Suciú O., Toma R., Santos-Sanz P., Sota A., Licandro J., Serra-Ricart M., Morate D., Mocnik T., Diaz Alfaro M., Lopez-Martinez F., McCormac J., Humphries N., 2017, *The EURONEAR Lightcurve Survey of Near Earth Asteroids*, Earth, Moon, and Planets, Volume 120, Issue 2, pp.41-100 (SRI 0.419)
12. Arneson R. A., Gehrz R. D., Woodward C. E., Helton L. A., Shenoy D., Evans A., Keller L. D., Hinkle K. H., Jura M., Lebzelter T., Lisse C. M., **Rushton M. T.**, Mizrachi J., 2017, *A SOFIA FORCAST Grism Study of the Mineralogy of Dust in the Winds of Proto-planetary Nebulae: RV Tauri Stars and SRd Variables*, The Astrophysical Journal, Volume 843, Issue 1, article id. 51, 22 pp. (SRI: 2.381)
13. Vaduvescu O., Conovici M., **Popescu M., Sonka A.**, Paraschiv A., Lacatus D., Tudorica A., Hudin L., Curelaru L., Inceu V., Zavoianu D., Cornea R., Toma R., Asher D. J., Hadnett J., Cheallaigh L. O., 2017, *Data mining of near-Earth asteroids in the Subaru Suprime-Cam archive*, Astronomische Nachrichten, vol. 338, issue 5, pp. 527-535 (SRI 0.568)
14. **Popescu E., Pricopi D.**, 2017, *Global flow in the generalized Buckingham's two-body problem*, Astrophysics and Space Science, Volume 362, Issue 4, article id.78, 7pp. (SRI 0.509)
15. **Pop A.**, Crăciun M., **Mocanu G. R.**, Vamoş C., 2017, *Evidence for quasiperiodicity in orbital period modulation of WW Cygni*, Astrophysics and Space Science, Volume 362, Issue 4, article id.76, 15 pp. (SRI 0.509)
16. Licandro J., **Popescu M.**, Morate D., de Leon J., 2017, *V-type candidates and Vesta family asteroids in the Moving Objects VISTA (MOVIS) catalogue*, Astronomy & Astrophysics, Volume 600, id. A126, 9 pp. (SRI 1.984)
17. **Chifu I.**, Wiegmann T., Inhester B., 2017, *Nonlinear Force-free Coronal Magnetic Stereoscopy*, The Astrophysical Journal, Volume 837, Issue 1, article id. 10, 7 pp. (SRI: 2.381)
18. **Mocanu G.R.**, I. Raşa, 2017, *Hörmander Representations and Hill Trajectories for Certain Partial Differential Operators*, Mediterranean Journal of Mathematics, 14 (2017), 32 (SRI 0.553)
19. **Mocanu G.R.**, I. Raşa, 2017, *Approximation of  $C_0$ -Semigroups Generated by Differential Operators on the Unit Interval*, Numerical Functional Analysis and Optimization, **38** (2017), Issue 5, 674 – 682 (SRI 0.540)

20. Paulescu M., Brabec, M., **Boata, R.**, Badescu, V., 2017,. *Structured, physically inspired (gray box) models versus black box modeling for forecasting the output power of photovoltaic plants.* Energy 121, Pages 792 – 802. (SRI: 2.741)
21. Ji Y., Yoshioka S., **Manea V.C., Manea M.**, 2017, *Seismogenesis of dual subduction beneath Kanto, central Japan controlled by fluid release*, accepted for publication (16/11/2017) in Nature Scientific Reports (SRI 3.435)

L I S T A  
articolelor științifice apărute în reviste ISI din România în anul 2017

1. Paulescu M., Pop N., Stefu N., Paulescu E., **Boata R.**, Calinoiu D., 2017. *Seasonal modeling of hourly solar irradiation series*. Romanian Journal of Physics, 62 (7-8), 813. (SRI: 0.435)
2. Stefu, N., Paulescu, M., Gravila, P., Paulescu, E., Pop, N., **Boata, R.**, 2017. *Model for the UV biologically effective dose and application under future climate conditions*, Environmental Engineering and Management Journal, Volume: 16 Issue: 1, pp. 225-234. (SRI: 0.131)

## L I S T A

**articolelor științifice apărute în reviste indexate din străinătate în anul 2017**

1. **Popescu M.**, Licandro J.; Morate D., de León, J., **Nedelcu, D. A.**, 2017, *Minor Planet Science with the VISTA Hemisphere Survey*, The Messenger, vol. 167
2. **Sonka A., Popescu M., Nedelcu, D.A.**, Gherase R.M., Vass, G., 2017, *Photometric Observations of the Near-Earth Asteroids (326683) 2002 WP and 2016 LX48*, The Minor Planet Bulletin (ISSN 1052-8091). Bulletin of the Minor Planets Section of the Association of Lunar and Planetary Observers, **44**, 3
3. **Dumitrache C.**, 2017, *Numerical Simulations of the Evolution of Solar Active Regions: the Complex AR12565 and AR12567*, Advances in Astrophysics, **2**, 2

## L I S T A

**cataloagelor de observații astronomice indexate în bazele de date internaționale în anul 2017**

1. **Popescu, C. C.**; Yang, R.; Tuffs, R. J.; Natale, G.; Rushton, M.; Aharonian, F., 2017, *VizieR Online Data Catalog: Radiation fields of the Milky Way (Popescu+, 2017)*, VizieR On-line Data Catalog: J/MNRAS/470/2539. Originally published in: 2017MNRAS.470.2539P

## L I S T A

**articolelor științifice apărute în reviste românești recunoscute de CNCSIS categoria B+ în anul 2017**

1. Bărbosu M., Chiruță C., **Oproiu T.**, 2017, *Stability of Triangular Equilibrium Points for the Elliptic Restricted Three-Body Problem with Drag*, Romanian Astronomical Journal, **27**, 1
2. **Dumitrache, C., Dumitru, L., Blagoi L., Dănescu, C., Stere O., Sonka A.**, 2017, *The AR12644 evolution – observations and simulations*, Romanian Astronomical Journal, **27**, 2
3. **Popescu N. A., Dumitrache C.**, 2017, *Five days of solar wind evolution at 1 AU in May 2016*, Romanian Astronomical Journal, **27**, 2
4. **Birlan M.**, Colas F., Cochard F., Carry B., Vernazza P. Fornasier S., Perna D., *New concept of spectrograph for Near-Earth Asteroids observations*, Romanian Astronomical Journal, **27**, 2
5. **Gornea A. I., Nedelcu D. A., Dumitru P. D.**, *Some results regarding statistical evaluation of the CCD astro-geodetic vertical deviation*, Romanian Astronomical Journal, **27**, 2
6. Gherase R. M., **Popescu M., Sonka A. B., Paraschiv, P.**, *AIRA T40 – First Light*, Romanian Astronomical Journal, **27**, 2
7. **Sorin MARIN**, *Laying the Foundations of Contemporary Romanian Astronomy*, Romanian Astron. J. , Vol. 27, No. 2, p. 143–160, Bucharest, 2017;
8. **Blăgoi O., Dănescu C.**, 2017, *Upgrading the solar instruments for space weather observations at AIRA*, Romanian Astronomical Journal, **27**, 2
9. Szucs-Csillik, I., 2017, *Orbital Flower*, Romanian Astronomical Journal, **27**, 2
10. Anghel S., **Birlan M.**, 2017, *Data ingestion methods and taxonomic results using M4AST*, Romanian Astronomical Journal, **27**, 1.
11. **Popescu E., Popescu N. A.**, 2016, *The behaviour of cross-helicity and residual energy at different heliolatitudes - Ulysses data*, Romanian Astronomical Journal, **26**, 3

L I S T A  
articolelor științifice apărute în alte reviste din România în anul 2017

1. **Constantin D. R., Pricopi D.,** Mocanu A. A., Varga-Verebelyi, Viculescu V., 2017, *Bărbosu - Constantin potential*, Balkan Society of Geometers
2. **Ionescu D.**, 2017, *Virginia Woolf și astronomia*, revista Magazin Istoric, februarie 2017



L I S T A  
**articolelor științifice apărute în volume din străinătate în anul 2017**

1. **Szücs-Csillik I.**, Maxim Z., In (eds. C.-E. Ursu, A. Poruciuc, C.-M. Lazarovici), Volume of the International Symposium „*From Symbol to Signs. Symbol and signs on altars and in the sanctuaries*”, 26-28 mai 2017, Suceava, Romania, Bucovinei Museum Suceava, Karl. A. Romstorfer Press, 2017 (acceptat). *Ethno-astronomical studies on several constelations in the northern hemisphere*
2. **Szücs-Csillik I.**, Maxim Z. In (eds. S. A. Luca, G. Lazarovici, M. Lazarovici), volume of the International Symposium „*The Image of Divinity in the Neolithic and Eneolithic. Ways of Communication*”, 2017 (acceptat), „*Crown*” and „*Necklace*” constellations – symbol and sign

L I S T A  
articolelor științifice apărute în volume din România în anul 2017

1. **Szücs-Csillik I., Maxim Z.** In (eds. ) *ArheoVest*, Nr. V: In Honorem Prof. Univ. Emerit Doina Benea, *Interdisciplinaritate în Arheologie și Istorie*, JATE Press Kiadó, Szeged, 2017 (in press).  
**„Observed” constellations from the Parța Neolithic Sanctuary**

**L I S T A**  
**cărilor publicate la Editura Academiei Române în anul 2017**

1. INSTITUTUL ASTRONOMIC (colectiv), *Anuarul Astronomic 2017*, Ed. Acad. Rom., București, 2017
2. INSTITUTUL ASTRONOMIC (colectiv), *Anuarul Astronomic 2018*, Ed. Acad. Rom., București, 2018 (sub tipar)

L I S T A  
comunicărilor la conferințe în anul 2017

1. Hanus J., Vernazza P., Marsset M., Marchis F., Carry B., Santana-Ros T., **Birlan M.**, Viikinkoski M., Durech J., Kaasalainen M., and the Large Asteroid Survey with SPHERE (LASS), 2017, *Shape models of large asteroids based on disk-resolved images collected with the SPHERE Extreme AO system*, American Astronomical Society, DPS meeting #49, id.208.05
2. Marchis F., Vernazza P., Marsset M., Hanus J., Carry B., **Birlan M.**, Santana-Ros T., Yang B., and the Large Asteroid Survey with SPHERE (LASS), 2017, *A Large Program to derive the shape, cratering history and density of the largest main-belt asteroids*, American Astronomical Society, DPS meeting #49, id.208.04
3. Erard S., Cecconi B., Le Sidaner P., Rossi A. P., Schmitt B., Rousseau B., Andrieu F., Minin M., Genot V., Glorian J.-M., **Birlan M.**, 2017, *Spectroscopy of planetary surfaces in a VO context (VESPA)*, European Planetary Science Congress 2017, held 17-22 September, 2017 in Riga Latvia, id. EPSC2017-789
4. **Birlan M.**, Colas F., Cochard F., Carry B., Vernazza P., Fornasier S., Perna D., 2017, *Technics for observing asteroids: SOVAG instrument*, Presented at "Asteroids, Comets, Meteors", Montevideo, Uruguay, 10-14 April 2017
5. Barucci M. A., Perna D., Fornasier S., Doressoundiram A., Lantz C., **Popescu M.**, Merlin F., Fulchignoni M., 2017, *NEOShield-2 Project: Final Results on Compositional Characterization of small NEOs*, American Astronomical Society, DPS meeting #49, id.110.08
6. Oszkiewicz D., Skiff B., Warner B., Buie M., Tanga P., **Popescu M.**, Cellino A., Licandro J., Hestroffer D., 2017, *Asteroid phase-curves from Gaia-calibrated data*, European Planetary Science Congress 2017, held 17-22 September, 2017 in Riga Latvia, id. EPSC2017-743
7. **Popescu M.**, Vaduvescu O., de Leon J., **Boaca I. L.**, Gherase R. M., **Nedelcu D. A.**, INT students I. N. G., 2017, *Spectral properties of near-Earth asteroids on cometary orbits*, European Planetary Science Congress 2017, held 17-22 September, 2017 in Riga Latvia, id. EPSC2017-537
8. Barucci M. A., Perna D., Belskaya I., **Popescu M.**, Fornasier S., Doressoundiram A., Lantz C., Merlin F., Fulchignoni M., 2017, *NEOShield-2 project: Phase effects in NEA visible spectra*, European Planetary Science Congress 2017, held 17-22 September, 2017 in Riga Latvia, id. EPSC2017-137
9. **Popescu M.**, Licandro J., de León J., Morate D., **Boaca I. L.**, *Taxonomical classification of asteroids based on the near-infrared colors observed by VISTA-VHS survey*, Asteroids, Comets, Meteors, Montevideo, April 10th-14th 2017.
10. **Popescu M.**, Barucci M.A., Perna D., Fulchignoni M., Fornasier S., Doressoundiram A., Lantz C., Merlin F., *Assessment of D-type asteroids accessible for a space-mission rendezvous* Asteroids, Comets, Meteors, Montevideo, April 10th-14th 2017.
11. **Popescu M.**, *Spectral properties of near-Earth asteroids on cometary orbits*, European Planetary Science Congress 2017 17–22 Septembrie 2017, Riga, Latvia.

12. **Popescu M.**, *The MAST tool and spectroscopy databases*, Workshop la Observatoire de la Côte d'Azur, Nice, France, 06 Noiembrie 2017
13. **Besliu-Ionescu D.**, Talpeanu D., Mierla M., Maris Muntean G.: *On geoeffectiveness of CMES during SC24*, General Symposium (VarSITI-2017), 10-15 iulie, 2017, Irkutsk, Russia
14. **Chifu I.**, Wiegelmann T., Inhester B., *Nonlinear Force-free Coronal Magnetic Stereoscopy*, SOLARNET IV, Lanzarote, Spania, 16-20 ianuarie 2017
15. **Chifu I.**, Wiegelmann T., Inhester B., *Nonlinear Force-free Coronal Magnetic Stereoscopy*, DPG meeting, Bremen, Germania, 13 - 17 martie 2017
16. Inhester B., **Chifu I.**, *A regularized VARPRO full-Newton iteration for the stereoscopic reconstruction of loops in EUV images*, ESWW 14, Oostende, Belgia, 27 noiembrie -1 decembrie 2017
17. Pop N., Mezei J. Zs., Colboc F., Moulane Y., Niyonzima S., Epée Epée M. D., Motapon O., Iacob F., **Boatã R.**, Laporta V., Chakrabarti K., Tennyson J., Schneider I. F., 2017, *Excitation, recombination and dissociation of molecular cations by electron-impact in cold plasmas: Application to H<sub>2</sub><sup>+</sup>, HD<sup>+</sup>, BeD<sup>+</sup> and BF<sup>+</sup>*, The XXXIII edition of International Conference on Phenomena in Ionized Gases, ICPIG 2017, 9-14 July 2017, Estoril / Lisbon, Portugal.
18. Cristea O., **Turcu V.**, Ober B., Flohrer T., Prieto-Cerdeira, R., *Angular Position Measurement of Galileo Satellites with Telescopes*, Scientific and Fundamental Aspects of GNSS / Galileo, 6th International Colloquium, 25-27 October 2017, Technical University of Valencia, Valencia, Spain; European Space Agency, Universitat Politècnica de València, VAL space Consortium.
19. Mezei J. Zs., Colboc F. , Moulane Y., Pop N., Niyonzima S., Epée Epée M. D., Motapon O., Little D. A., Iacob F., **Boatã R.**, Laporta V., Celiberto R., Chakrabarti K., Jehin E. , Benkhaldoun Z. , Hassouni, K., Benredjem D., Faure A., Bultel A., Tennyson I, Schneider I.F., 2017. *Electron/molecular-cation collisions in cold plasmas: super-excited states at "zero" energy*. The XXXIII edition of International Conference on Phenomena in Ionized Gases, ICPIG 2017, 9-14 July 2017, Estoril / Lisbon, Portugal.
20. **Szücs-Csillik I.**, *120 celestial seconds' slices from Romania*, Satellite Dynamics and Space Missions School: Theory and Applications of Celestial Mechanics, 30 septembrie 2017, San Martino al Cimino, Italia
21. **Dănilă, B.**, *High precision optical astrometry of MEO satellites*, IMCCE – Observatoire de Paris, 16 October 2017, Paris, France
22. **Rushton M. T.**, **Popescu C.**, Tuffs R., Natale G., **Pricopi D.**, *Modeling the ultraviolet / submillimetre spectral energy distributions of spiral galaxies*, International Conference Connections in Astronomy, Astrophysics, Space and Planetary Sciences, 29-30 mai 2017, Cluj-Napoca, Romania
23. Popescu E., **Pricopi D.**, Constantin D. R., *Orbits stability under the influence of Mücket-Treder potential*, International Conference Connections in Astronomy, Astrophysics, Space and Planetary Sciences, 29-30 mai 2017, Cluj-Napoca, Romania
24. **Dumitrache C.**, **Blăgoi O.**, **Dănescu C.**, **Dumitru L.**, **Șonka A.**, **Stere O.**, *Space Weather Programs – Past and present at the Bucharest Solar Station*, International Conference Connections in Astronomy, Astrophysics, Space and Planetary Sciences, 29-30 mai 2017, Cluj-Napoca, Romania

25. **Blăgoi O., Dănescu C., Şonka A.**, *Solving technical problems by upgrading the solar instruments for space weather programs*, International Conference Connections in Astronomy, Astrophysics, Space and Planetary Sciences, 29-30 mai 2017, Cluj-Napoca, Romania
26. **Dumitrache C.**, *Active regions evolution – MHD numerical simulations*, 2017, International Conference Connections in Astronomy, Astrophysics, Space and Planetary Sciences, 29-30 mai 2017, Cluj-Napoca, Romania
27. **Popescu N.A., Dumitrache C., Stere O.**, *Interplanetary magnetic structures between 5 and 9 May 2016 and their geoeffectiveness*, International Conference Connections in Astronomy, Astrophysics, Space and Planetary Sciences, 29-30 mai 2017, Cluj-Napoca, Romania
28. **Dumitru L., Blăgoi O., Dănescu C., Şonka A., Stere O., Dumitrache C.**, *Analysis of two high eruptive active regions in the declining phase of the solar cycle*, 2017, International Conference Connections in Astronomy, Astrophysics, Space and Planetary Sciences, 29-30 mai 2017, Cluj-Napoca, Romania
29. **Stere O., Dumitrache C., Popescu N. A.**, *Analysis of the complex event that gave a high geomagnetic storm on 4 April 2017*, 2017, International Conference Connections in Astronomy, Astrophysics, Space and Planetary Sciences, 29-30 mai 2017, Cluj-Napoca, Romania
30. **Boată R.**, 2017., *Fuzzy systems applied in computing of the solar irradiation*. International Conference Connections in Astronomy, Astrophysics, Space and Planetary Sciences, 29-30 May 2017, Cluj-Napoca.
31. **Pricopi D.**, Suran, M.D., **Constantin D.R.**, *Looking into rotating red giant star KIC 006144777 by means of asteroseismology with Kepler*, “The PLATO Mission Conference 2017: Exoplanetary systems in the PLATO era”, University of Warwick, UK, 5 – 7 Septembrie 2017
32. **Constantin D.R., Pricopi D.**, Suran M.D., *Modelling of the RGs KIC 003758458 and KIC 009882316 by means of asteroseismology with Kepler*, “The PLATO Mission Conference 2017: Exoplanetary systems in the PLATO era”, University of Warwick, UK, 5 – 7 Septembrie 2017
33. **Ficuţ-Vicaş D.**, *A view on bars: the case of DDO168 and DDO133*, Zilele Academice Clujene 2017, International Conference Connections in Astronomy, Astrophysics, Space and Planetary Sciences, 29-30 mai 2017, Cluj-Napoca, Romania
34. Bărbosu M., **Oproiu T.**, Wiandt T. *High Accuracy Force Function Approximation in the Restricted Three-Body Problem*, Zilele Academice Clujene 2017, International Conference Connections in Astronomy, Astrophysics, Space and Planetary Sciences, 29-30 mai 2017, Cluj-Napoca, Romania
35. Bărbosu M., Chiruţă C., **Oproiu T.**, *Romania Stability of Triangular Equilibrium Points in Rein’s ER3BP with Drag*, Zilele Academice Clujene 2017, International Conference Connections in Astronomy, Astrophysics, Space and Planetary Sciences, 29-30 mai 2017, Cluj-Napoca,
36. **Turcu V., Moldovan D., Mircea L.**, *Asteroid „2014 JO25” observational results*, Zilele Academice Clujene 2017, International Conference Connections in Astronomy, Astrophysics, Space and Planetary Sciences, 29-30 mai 2017, Cluj-Napoca, Romania
37. **Szücs-Csillik I.**, *Orbital flower*, Zilele Academice Clujene 2017, International Conference Connections in Astronomy, Astrophysics, Space and Planetary Sciences, 29-30 mai 2017, Cluj-Napoca, Romania

38. Dănescu R., **Dănilă B.**, **Turcu V.**, *Single pass real time adjustment of orbital parameters for prediction of follow up observations*, Zilele Academice Clujene 2017, International Conference Connections in Astronomy, Astrophysics, Space and Planetary Sciences, 29-30 mai 2017, Cluj-Napoca, Romania
39. Lindner A., **Turcu V.**, Marcu A., *Y Leonis oEA system scrutiny*, Zilele Academice Clujene 2017, International Conference Connections in Astronomy, Astrophysics, Space and Planetary Sciences, 29-30 mai 2017, Cluj-Napoca, Romania
40. **Botez E.**, *Cluj Members of the Romanian Academy of Sciences*, Zilele Academice Clujene 2017, International Conference Connections in Astronomy, Astrophysics, Space and Planetary Sciences, 29-30 mai 2017, Cluj-Napoca, Romania
41. **Pop A.**, Vamoș C., *Differential diagnosis of orbital period variability phenomena: cyclic magnetic activity and orbital motion. The case of AB Cas*, Zilele Academice Clujene 2017, International Conference Connections in Astronomy, Astrophysics, Space and Planetary Sciences, 29-30 mai 2017, Cluj-Napoca, Romania
42. **Danilă B.**, Harko T., **Mocanu G. R.**, *Radiation of a test particle in a circular equatorial orbit around a rotating black hole*, Zilele Academice Clujene 2017, International Conference Connections in Astronomy, Astrophysics, Space and Planetary Sciences, 29-30 mai 2017, Cluj-Napoca, Romania
43. **Nedelcu D. A.**, **Birlan M.**, *Fast numerical integration of Solar System bodies orbits with precomputed planetary positions*, International Conference Connections in Astronomy, Astrophysics, Space and Planetary Sciences, 29-30 mai 2017, Cluj-Napoca, Romania
44. **Sonka A.**, **Nedelcu D. A.**, **Popescu, M.**, *Minor Planet Photometry from AIRA*, Zilele Academice Clujene 2017, International Conference Connections in Astronomy, Astrophysics, Space and Planetary Sciences, 29-30 mai 2017, Cluj-Napoca, Romania
45. **Gornea A.I.**, *Some results regarding statistical evaluation of the CCD astro-geodetic vertical deviation*, Zilele Academice Clujene 2017, International Conference Connections in Astronomy, Astrophysics, Space and Planetary Sciences, 29-30 mai 2017, Cluj-Napoca, Romania
46. **Șonka A.**, *SID station – Romania 2*, Zilele Academice Clujene 2017, International Conference Connections in Astronomy, Astrophysics, Space and Planetary Sciences, 29-30 mai 2017, Cluj-Napoca, Romania
47. **Ionescu D.**, *On the Romanian Popular Calendar*, Zilele Academice Clujene 2017, International Conference Connections in Astronomy, Astrophysics, Space and Planetary Sciences, 29-30 mai 2017, Cluj-Napoca, Romania
48. **Marin S.**, *Installing the Foundations of Contemporary Romanian Astronomy. The Meridian Hall of Bucharest Observatory in 1926 - The people, the Instruments and the Building*, Zilele Academice Clujene 2017, International Conference Connections in Astronomy, Astrophysics, Space and Planetary Sciences, 29-30 mai 2017, Cluj-Napoca, Romania
49. **Birlan M.**, Colas F., Cochard F., Carry B., Veranza P., Fornasier S., Perna D., *New concept of spectrograph for Near-Earth Asteroids observations*, Zilele Academice Clujene 2017, International Conference Connections in Astronomy, Astrophysics, Space and Planetary Sciences, 29-30 mai 2017, Cluj-Napoca, Romania

50. **Birlan M.**, *Asteroid families: diversity inside the small solar system body population*, Zilele Academice Clujene 2017, International Conference Connections in Astronomy, Astrophysics, Space and Planetary Sciences, 29-30 mai 2017, Cluj-Napoca, Romania
51. **Popescu, M.**, *Physical properties of Solar System objects from ESA Euclid observations* "Universul intunecat: de la Planck la Euclid" 11 mai 2017, Auditoriul ISS, Măgurele, România
52. **Dănilă B.**, Harko T., **Mocanu G. R.**, *Accretion disk radiation in Kerr metric*, 8th International Student Summer School "Nuclear Physics – Science and Applications", 26 July – 4 August 2017, Braşov, Romania
53. **Szücs-Csillik, I.**, Zoia Maxim, „Crown” and „Necklace” constellations – symbol and sign, International Symposium The Image of Divinity in the Neolithic and Eneolithic. Ways of Communication, 26-28 octombrie 2017, Sibiu, Romania
54. **Szücs-Csillik I.**, Zoia Maxim, *Constelațiile „Coroana” și „Colierul” – simbol și semn*, International Symposium From Symbol to Signs. Symbol and signs on altars and in the sanctuaries, 26-28 mai 2017, Suceava, Romania
55. **Szücs-Csillik I.**, Maxim Z., „Observed” constellations from the Parța Neolithic Sanctuary, Simpozionul Național de Interdisciplinaritate în Arheologie și Istorie, Ediția I (In Honorem Prof. Univ. Emerit Doina Benea), 25 noiembrie 2017, Timișoara
56. **Stere O., Dumitru L.**, *Trigger factors of the geomagnetic storm that occurred on March 27, 2017*, Bucharest University Faculty of Physics 2017 Meeting
57. **Constantin D. R., Pricopi D.**, Mocanu A. A., Varga-Verebelyi, Viculescu V., 2017, *Bărbosu - Constantin potential*, The International Conference "Differential Geometry and Dynamical Systems – 2017 (DGDS-2017) 12-15 October 2017, University Politehnica of Bucharest, Romania
58. **Botez E., Oproiu T., Turcu V., Mircea L., Moldovan D., Szücs-Csillik I.**, *60 de ani de la lansarea primului satelit artificial al Pământului. Observarea optică a primilor sateliți artificiali la Observatorul Astronomic din Cluj-Napoca*, Conferința Națională Didactică Matematicii, Reghin, 6 mai 2017



**Citările articolelor Institutului Astronomic în anul 2017**

Baza de date internațională SAO/NASA Astrophysics Data System (ADS) conține un număr de 463 de articole (281 în jurnale cu referenți, ISI sau BDI) pentru care cel puțin unul dintre autori are ca afiliere **“The Astronomical Institute of the Romanian Academy”**. Aceste articole au primit în anul 2017 un număr total de 549 de citări (423 în jurnale cu referenți).

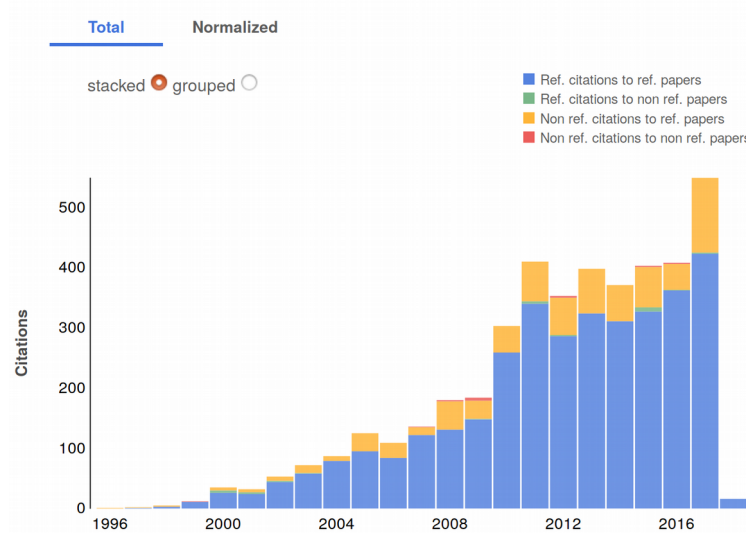


Fig 1. Citări din anul 2017 ale articolelor Institutului Astronomic conform SAO/NASA ADS (<https://goo.gl/xe6Ane>)

L I S T A  
proiectelor extrabugetare de cercetare din anul 2017

**Obținute în străinătate:**

1. Contract European Space Agency (ESA) – European Space Research and Technology Centre (ESTEC) ESA Contract No. 4000114740/15/NL/MM “EGEP ID 89.26 – GNSS Evolution Scientific and Innovative Technology Research Announcement of Opportunity (AO) *TELEGAL: Angular Position Measurement of Galileo Satellite with Telescopes* 22.07.2015; 2015-2017; Prime-contractor: BITNET CCSS SRL Cluj-Napoca (ESA Vendor Code 1000014061), **Subcontractor Romanian Academy – Cluj-Napoca Branch, Astronomical Observatory Cluj** (ESA Vendor Code 1000016320); suma totală subcontractor 30000 Euro (pentru 2017 12000 Euro).

2. Contract European Space Agency (ESA) – European Space Research and Technology Centre (ESTEC) ESA Contract No. 4000xxxxxx/17/NL/LvH/mm *Magnetic Field Perturbations by Thermo-Electric Effects “MAGTHER”* “ESA AO/1-8868/16/NL/LvH/abz ESA EXPRESS PROCUREMENT (EXPRO+) / OPEN-COMPETITIVE” / 30.11.2017; 2017-2018; **Prime-contractor: Romanian Academy – Cluj-Napoca Branch, Astronomical Observatory Cluj** (ESA Vendor Code 1000016320), no subcontractors; suma totală 137465 Euro. (avans 26998 Euro)

**Obținute din țară**

3. Contract Ministerul Cercetării și Inovării, Programului Sectorial, Apelul pentru proiecte competiția 2017, 2017 – 2018, *Dezvoltarea capacității de monitorizare și coordonare a activității de supraveghere spațială, pentru prognoza riscurilor asociate căderii din atmosferă și din cosmos a corpurilor naturale și artificiale - ARGOS*, Coordonator: Agenția Spațială Română, Parteneri: **Institutul Astronomic al Academiei Române** (responsabil CSI dr. **Nedelcu Dan Alin**), **Academia Română – Filiala Cluj-Napoca, Observatorul Astronomic Cluj-Napoca** (responsabil CSI dr. **Turcu Vlad**), SC RARTEL SA, BITNET Centrul de Cercetări Senzori & Sisteme SRL. Suma totală Institutul Astronomic al Academiei Române, Observatorul Astronomic Cluj Napoca 250.000 Lei, buget etapa 2017 56.000 lei.

4. Contract PN-II-RU-TE-2014-2017,172/01.10.2015, “*Statistica compozițională a asteroizilor pe baza observațiilor spectroscopice și spectrofotometrice*”, 2015-2017, partener unic Institutul Astronomic al Academiei Române, Director proiect CSIII Dr. **Popescu Marcel**. Buget total 549.125 lei, buget etapa 2017 263513lei.

5. Programul de Cercetare-Dezvoltare-Inovare pentru Tehnologie Spațială și Cercetare Avansată - STAR Competiția pentru proiecte C3 - 2016 Proiecte tip "CENTRE DE COMPETENȚA ÎN TEHNOLOGII SPAȚIALE", *Centre of Competence for Planetary Sciences - ASTRES*, 2016-2018, Partener unic **Institutul Astronomic al Academiei Române**, Director proiect CSI Dr. **Bădescu Octavian**. Buget total 2.970.000 lei, buget etapa 2017: 2.171.952 lei.

6. Programul de Cercetare-Dezvoltare-Inovare pentru Tehnologie Spațială și Cercetare Avansată – STAR, Competiția pentru proiecte C3 – 2016, Proiecte tip "Cercetare-Dezvoltare-Inovare / CDI", *Instrument zenital controlat de la distanță pentru determinarea astro-geodezică a deviației verticalei, acronim ASTROZEN*, 2017-2019, Coordonator **Institutul Astronomic al Academiei Române**, Director proiect CSI Dr. **Bădescu Octavian**, Partener Universitatea Tehnică de Construcții București. Buget total Institutul Astronomic al Academiei Române 1.157.377, buget etapa 2017 641.265 lei.

7. Programul 2 UEFISCDI - Creșterea competitivității economiei românești prin cercetare, dezvoltare și inovare, Tip proiect "Proiect Experimental – Demonstrativ / PED", *Platforma astro-geodezică*

pentru măsurători de deviația verticalei în timp real, acronim VERA, 2017-2018, Coordonator Universitatea Tehnică de Construcții București, Partener **Institutul Astronomic al Academiei Române**, Responsabil partener **CSI Dr. Bădescu Octavian**. Buget total Institutul Astronomic al Academiei Române 214.661 lei, buget etapa 2017 79.750 lei.

8. Programul 2 UEFISCDI - Creșterea competitivității economiei românești prin cercetare, dezvoltare și inovare, Tip proiect "Proiect Experimental – Demonstrativ / PED", *Software de inalta performanta cu arhitectura paralela pentru procesarea datelor din Misiunile NASA-Kepler si ESA - PLATO*, 2017-2018, Coordonator **Institutul Astronomic al Academiei Române** (responsabil partener CSII **Dr. Dumitru Pricopi**), Partener MBM SOFTWARE & PARTNERS S.R.L. Buget total Institutul Astronomic al Academiei Române 420.125, buget etapa 2017 253.000 lei.

9. Programul de Cercetare-Dezvoltare-Inovare pentru Tehnologie Spațiala și Cercetare Avansată – STAR, Competiția pentru proiecte C3 – 2016, Proiecte tip "Cercetare-Dezvoltare-Inovare / CDI", *Near Earth Environment Mobile Observatory NEEMO*, 2017-2019, Coordonator SC WING COMPUTER GROUP SRL, Parteneri: **Institutul Astronomic al Academiei Române** (responsabil partener **CSI Dr. Nedelcu Dan Alin**), Institutul de Științe Spațiale. Buget total Institutul Astronomic al Academiei Române 200.000 lei, buget etapa 2017 30.000 lei.

10. Planul Național de Cercetare - Dezvoltare și Inovare pentru perioada 2015 - 2020 (PNCDI III), Programul 2: Creșterea competitivității economiei românești prin cercetare, dezvoltare și inovare, Subprogramul 2.1: Competitivitate prin cercetare, dezvoltare și inovare – Proiect tip Soluții, *Tehnologii spațiale în managementul dezastrelor și crizelor majore, manifestate la nivel local, național și regional*, 2017-2020, Coordonator Institutul National de Cercetare-Dezvoltare în Informatică (ICI), Parteneri **Institutul Astronomic al Academiei Române**, Responsabil partener **CSI Dr. Bădescu Octavian**, Buget total Institutul Astronomic al Academiei Române 630.000 lei, buget etapa 2017 162.000 lei.

L I S T A  
**seminariilor științifice organizate de Institutul Astronomic în anul 2017**

1. Mioara Manda, Centre National d'Etudes Spatiale, Paris, *Geomagnetic storms: between beauty and risk*, 24 noiembrie
2. Marcel Popescu, Radu Gherase, Bogdan Dumitru, Ioana Boacă, Institutul Astronomic, *Proiectul CMAPS*, 5 octombrie
3. Mirel Birlan, IMCCE, CNRS, Paris Observatory, PSL Research University, Institutul Astronomic, *New spectrograph for Near Earth Asteroids in Pic du Midi Observatory: technical requirements and design*, 20 septembrie
4. Diana Ionescu, Institutul Astronomic, *Despre geo-efectivitatea ejectiilor coronale de masa din Ciclul Solar 24*, 19 iulie
5. Ioana Boaca, Institutul Astronomic, *Clasificare taxonomică a corpurilor mici din Sistemul Solar folosind analiza în componente principale*, 29 iunie
6. Mihai Ducea, Professor of Geology, University of Arizona, Department of Geosciences, *Testing new evolutionary tectonic models with zircon geochemistry and geochronology*, 27 iunie
7. Universite de Lorraine, Institut Elie Cartan de Lorraine, Nancy, *Structură și formă în date geo-localizate: modelizare probabilistă și inferență statistică*, 26 aprilie
8. Marilena Mierla, Royal Observatory of Belgium, *CMEs: reconstrucție 3D și propagare*, 6 aprilie
9. Vlad Constantin Manea, National Institute of Earth Physics, Măgurele, Romania, Computational Geodynamics Laboratory, Geosciences Center, UNAM, Mexico, National Laboratory for Advanced Scientific Visualization (LAVIS), UNAM, Mexico, *Large Scale Numeric Simulations Assisted by Supercomputing*, 2 martie
10. Marina Manea, National Institute of Earth Physics, Măgurele, Romania, Computational Geodynamics Laboratory, Geosciences Center, UNAM, Mexico, National Laboratory for Advanced Scientific Visualization (LAVIS), UNAM, Mexico, *National Laboratory for Advanced Scientific Visualization at UNAM – Mexico*, 2 martie

L I S T A  
**manifestărilor științifice organizate de Institutul Astronomic în anul 2017**

1. International Conference “*Connections in Astronomy, Astrophysics, Space and Planetary Sciences*”, Zilele Academice Clujene 2017, Cluj-Napoca, România, 29-30 mai 2017
2. Sesiunea de conferințe științifice “*Asteroid Day*”, *Asteroizii geointersectori, cratere in Sistemul Solar, Tunguska & Chelyabinsk, Q&A live cu Observatorul din Paris*, București 30 iunie 2017