

Accurate sea surface heights from Sentinel-3A and Jason-3 retracers by incorporating high-resolution marine geoid and hydrodynamic models

Mostafavi, Majid; Delpeche-Ellmann, Nicole Camille; Ellmann, Artu Journal of geodetic science 2021 / p. 58-74

<https://doi.org/10.1515/jogs-2020-0120> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

AI systems to ensure cyber security in space

Pelin Manti, Nebile; **Carlo, Antonio**; Markova, Rada; Jha, Devanshu; Breda, Paola; Abdin, Adam; Boschetti, Nicolo IAC 2022

congress proceedings 2022 / art. 70423 <https://dl.iafastro.directory/event/IAC-2022/paper/70423/> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Anharmonic vibrational spectrum and experimental matrix isolation study of thioformic acid conformers-potential candidates for molecular cloud and solar system observations?

Lignell, A.; **Osadchuk, Irina**; Rasanen, M.; Lundell, J. The astrophysical journal 2021 / 7 p. : ill <https://doi.org/10.3847/1538-4357/ac06d0>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A bayesian estimation of the Milky Way's circular velocity curve using Gaia DR3

Pöder, Sven; Benito, María; Pata, Joosep; Kipper, Rain; Ramler, Heleri; Hütsi, Gert; Kolka, Indrek; Thomas, Guillaume F. Astronomy

and Astrophysics 2023 / art. A134 <https://doi.org/10.1051/0004-6361/202346474> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cartography of the Apollo 12 landing site from photogrammetric analysis of surface imagery

Pustönski, Vladislav-Veniamin Planetary and space science 2021 / art. 105133, 13 p. : ill <https://doi.org/10.1016/j.pss.2020.105133>

[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Consistency of JWST black hole observations with NANOGrav gravitational wave measurements

Ellis, John; Fairbairn, Malcolm; Hütsi, Gert; **Urrutia, Juan**; Vaskonen, Ville; Veermäe, Hardi Astronomy and astrophysics 2024 / art.

A270 <https://doi.org/10.1051/0004-6361/202450846> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cyber range and digital twin technologies for space resiliency and security

Carlo, Antonio; Manti, Nebile Pelin; Edl, András; Bintang Alam Semesta Wisran, A.M.; Breda, Paola 57th IAA Symposium on

Safety, Quality and Knowledge Management in Space Activities : held at the 75th International Astronautical Congress (IAC 2024) :

Milan, Italy, 14-18 October 2024 2024 / p. 322-332 <https://doi.org/10.52202/078376-0032> [Conference proceedings at Scopus](#) [Article at Scopus](#)

[Article at Scopus](#)

Cyber vulnerabilities and risks of AI technologies in space applications

Breda, Paola; Abdin, Adam; Markova, Rada; Jha, Devanshu; **Carlo, Antonio**; Pelin Manti, Nebile IAC 2022 congress proceedings

2022 / art. 70380 <https://dl.iafastro.directory/event/IAC-2022/paper/70380/> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Development of quality and knowledge management system for the first satellite mission in an educational institution based on ECSS standards

Vihmand, Mart; Dihuliya, Divya; Ehrminger, Robin 66th International Astronautical Congress 2015 (IAC 2015) : Space - The

Gateway for Mankind's Future, Jerusalem, Israel, 12-16 October 2015 2015 / p. 9717-9719

<https://iafastro.directory/iac/paper/id/31145/summary/> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Eccentricity effects on the supermassive black hole gravitational wave background

Raidal, Juhan; Urrutia, Juan; Vaskonen, Ville; Veermäe, Hardi Astronomy and astrophysics 2024 / art. A212

<https://doi.org/10.1051/0004-6361/202451345> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

ESTCube-1 nanosatellite for electric solar wind sail demonstration in low Earth Orbit

Kulu, Erik; Slavinskis, Andris; Kvell, Urmas; Pajusalu, Mihkel; Kuuste, Henri; Sünter, Indrek; Ilbis, Erik; Eenmäe, Tõnis; Laizāns,

Kaspars; **Vahter, Andres**; Eilonen, Elo; Kalde, Jaanus; **Liias, Paul**; Sisask, Andreas; Kimmel, Lauri; Allik, Viljo; Latt, Silver; Noorma,

Mart 64th International Astronautical Congress 2013 (IAC 2013) : Beijing, China, 23 - 27 September 2013 2013 / p. 3898 - 3902

https://www.researchgate.net/publication/289349984_ESTCube-1_nanosatellite_for_electric_solar_wind_sail_demonstration_in_low_Earth_Orbit

[Conference Proceedings at Scopus](#) [Article at Scopus](#)

Examining the performance of along track multi-mission satellite altimetry – a case study for Sentinel-6

Heinoja, Lenne-Liisa; **Delpeche-Ellmann, Nicole Camille; Ellmann, Artu** Journal of geodetic science 2023 / art. 20220159

<https://doi.org/10.1515/jogs-2022-0159> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Going digital, staying secure : cyber ERM activities in a post-pandemic setup

Carlo, Antonio; Casamassima, Francesca IAC 2022 congress proceedings 2022 / art. 70417

<https://iafastro.directory/iac/paper/id/70417/summary/> [Conference proceedings at Scopus](#) [Article at Scopus](#)

High-energy sources at low radio frequency : the Murchison Widefield Array view of Fermi blazars

Giroletti, M.; Massaro, F.; D'Abrusco, R.; **Kudryavtseva, Nadezhda** Astronomy and astrophysics 2016 / p. 1-9 : ill

<https://doi.org/10.1051/0004-6361/201527817> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

In search of the biggest bangs since the big bang

Ellis, John; **Urrutia, Juan**; Fairbairn, Malcolm; **Vaskonen, Ville** International Journal of Modern Physics D 2024 / art. 2440004
<https://doi.org/10.1142/S0218271824400042> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A matched filter technique for slow radio transient detection and first demonstration with the Murchison Widefield Array

Feng, L.; Vaulin, R.; Hewitt, J. N.; Remillard, R.; **Kudryavtseva, Nadezhda** The astronomical journal 2017 / art. 98
<https://doi.org/10.3847/1538-3881/153/3/98> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Microlensing of gravitational waves by dark matter structures

Fairbairn, Malcolm; **Urrutia Perez, Juan**; **Vaskonen, Ville** Journal of cosmology and astroparticle physics 2023 / art. 007
<https://doi.org/10.1088/1475-7516/2023/07/007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Monograin layer solar cell for future lunar outpost

Kristmann, Katriin; **Altosaar, Mare**; **Raudoja, Jaan**; **Grossberg, Maarja**; **Krustok, Jüri**; **Raadi, Taavi** IAC 2020 congress proceedings Proceedings of the International Astronautical Congress, IAC 2020 / 7 p. : ill [Monograin layer solar cell for future lunar outpost](#) <https://dl.iafastro.directory/event/IAC-2020/paper/56905/> [Conference proceeding at Scopus](#) [Article at Scopus](#)

Palatini F(R,X): a new framework for inflationary attractors

Dioguardi, Christian; Racioppi, Antonio Physics of the Dark Universe 2024 / art. 101509, 8 p. : ill
<https://doi.org/10.1016/j.dark.2024.101509> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Probing supermassive black hole seed scenarios with gravitational-wave measurements

Ellis, John; Fairbairn, Malcolm; **Urrutia, Juan**; Vaskonen, Ville The astrophysical journal 2024 / 7 p <https://doi.org/10.3847/1538-4357/ad27d5> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Producing pyrite based solar panels for the future lunar habitat

Kristmann, Katriin; **Raadi, Taavi**; **Heemskerk, Marc Vincent**; Woods, Arthur; Vogel, Andreas; Collins, Patrick; Gasperovics, Dimitrijs; Makaya, Advenit IAF Space Power Symposium : held at the 75th International Astronautical Congress (IAC 2024) : Milan, Italy, 14-18 October 2024 2024 / p. 312 - 317 <https://doi.org/10.52202/078370-0035> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Prospects for future binary black hole gravitational wave studies in light of PTA measurements

Ellis, John; Fairbairn, Malcolm; Hütsi, Gert; Raidal, Martti; **Urrutia Perez, Juan**; Vaskonen, Ville; Veermäe, Hardi Astronomy and astrophysics 2023 / art. A38 <https://doi.org/10.1051/0004-6361/202346268> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Pyrite as prospective monograin layer solar cell absorber material for in-situ solar cell fabrication on the Moon

Kristmann, Katriin; **Raadi, Taavi**; **Altosaar, Mare**; **Grossberg, Maarja**; **Krustok, Jüri**; **Pilvet, Maris**; **Mikli, Valdek**; **Kauk-Kuusik, Marit** IAC 2021 congress proceedings 2021 / p. 1-6 : ill https://deepzone3.ttu.ee/~juri.krustok/PDF-s/IAC-21_C3.4.7_x64087.pdf [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Pyrite based solar panel in-situ production on the Moon for space-based solar power

Raadi, Taavi; **Kristmann, Katriin**; Ciazela, J.; Jozefowicz, M.; Kowalinski, M.; Sniadkowski, A.; Bakala, J.; Steslicki, M.; Zalewska, N.; Pieterek, B.; Ciazela, M.; Marciniak, D. IAC 2023 congress proceedings 2023 / 9 p. : ill
<https://iafastro.directory/iac/paper/id/79277/abstract-pdf/IAC-23.D3.2B.6.x79277.brief.pdf?2023-03-30.12:16:44> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Pyrite FeS₂ solar cells fabrication for lunar base energy production

Kristmann, Katriin; **Raadi, Taavi**; **Altosaar, Mare**; **Grossberg-Kuusik, Maarja**; **Krustok, Jüri**; **Pilvet, Maris**; **Mikli, Valdek**; **Kauk-Kuusik, Marit**; **Makaya, Advenit** IAC 2022 congress proceedings 2022 / art. 190266 [Pyrite FeS₂ solar cells fabrication for lunar base energy production](#) [Conference proceedings at Scopus](#) [Article at Scopus](#)

Regulatory frameworks for lunar resources exploitation and insights from deep sea mining practices

Bruseghello, Ilenia; **Carlo, Antonio**; Pessôa-Lopes, Isabel 22nd IAA Symposium on Visions and Strategies for the Future : held at the 75th International Astronautical Congress (IAC 2024) : Milan, Italy, 14-18 October 2024 2024 / p. 374-381
<https://doi.org/10.52202/078375-0046> [Conference proceeding at Scopus](#) [Article at Scopus](#)

Securing outer space through cyber : risks and countermeasures

Carlo, Antonio; Casamassima, Francesca IAC 2021 congress proceedings 2021 / art. 64939 <https://dl.iafastro.directory/event/IAC-2021/paper/64939/> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Shipborne GNSS acquisition of sea surface heights in the Baltic Sea

Liibus, Aive; **Varbla, Sander**; **Ellmann, Artu**; **Vahter, Kaimo**; **Uiboupin, Rivo**; **Delpeche-Ellmann, Nicole Camille** Journal of geodetic science 2022 / 21 p. : ill., map <https://doi.org/10.1515/jogs-2022-0131> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Space industry : applications and implications of digital transformation

Carlo, Antonio; Casamassima, Francesca IAC 2021 congress proceedings 2021 / art. 65506 <https://dl.iafastro.directory/event/IAC-2021/paper/65506/> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Towards a resilient cyber architecture for space infrastructures : mitigating the new attack vectors

Carlo, Antonio; Pelin Manti, Nebile; Breda, Paola; Rollinde de Beaumont, Maelys; Jha, Devanshu IAC 2022 congress proceedings Proceedings of the International Astronautical Congress, IAC 2023 / art. 78079 <https://dl.iafastro.directory/event/IAC-2023/paper/78079/> [Towards a resilient cyber architecture for space infrastructures: mitigating the new attack vectors](#) [Conference at Scopus](#) [Article at Scopus](#)

Understanding space vulnerabilities : developing technical and legal frameworks for AI and cybersecurity in the spatial field

Carlo, Antonio; Pelin Manti, Nebile; A.S.W.A.M., Bintang; Casamassima, Francesca; Boschetti, Nicolo; Breda, Paola; Rahloff, Tobias IAC 2022 congress proceedings 2022 / art. 70406 <https://dl.iafastro.directory/event/IAC-2022/paper/70406/> [Conference proceedings at Scopus](#) [Article at Scopus](#)

The (un)predictable challenges and opportunities in a changing world

Carlo, Antonio; Pessôa-Lopes, Isabel; Bruseghello, Ilenia IAF Businesses and Innovation Symposium held at the 75th International Astronautical Congress (IAC 2024) : Milan, Italy, 14-18 October 2024 2024 / p. 354 - 362 <https://doi.org/10.52202/078383-0026> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Workforce management in small student run satellite program

Dihuliya, Divya; Vihmand, Mart; Ehrminger, Robin 66th International Astronautical Congress 2015 (IAC 2015) : Space - The Gateway for Mankind's Future, Jerusalem, Israel, 12-16 October 2015 2015 / p. 10135-10137 <https://dl.iafastro.directory/event/IAC-2015/paper/31126/> [Conference proceedings at Scopus](#) [Article at Scopus](#)