



About Extraterrestrial Institute

Extraterrestrial Institute is a first-of-its-kind, **open-access non-profit** decentralized Extraterrestrial Activity Knowledge and Collaboration platform created to promote a greater degree of synergy, efficient cooperation, and discussion among various extraterrestrial activity research participants and stakeholders, including R&D organizations, scientists, governmental bodies, policymakers, and influencers.

'[Extraterrestrial Activity Special Overview 2022](#)' is the an attempt to gather all **extra contextual accessible data** under one analytical framework on search of extraterrestrial intelligence. Within the project we created comprehensive prototypes of analytical frameworks as well as the **interactive platform** in the form of sophisticated **end-to-end dashboard** solution. The platform is dedicated to producing **powerful data mining and visualization systems**, interactive analytics tools, and industry case studies offering deep data-driven insights, novel intelligence, and strategic guidance in the high-growth and significant opportunity areas of extraterrestrial activity research and development.

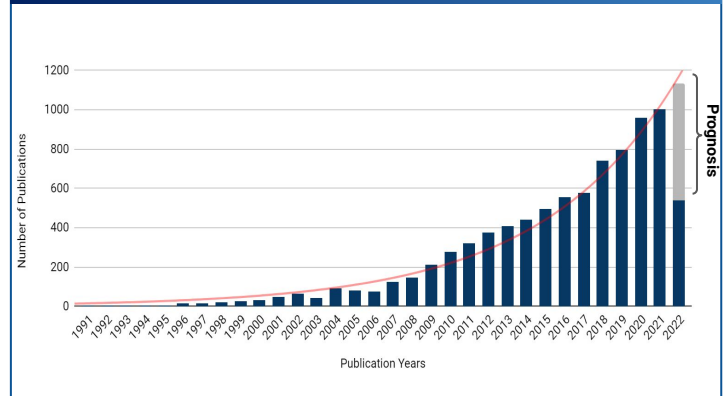
Some of the key takeaways from the report include:

- The most commonly used means of detecting extraterrestrial activity are gravitational waves measuring, spectroscopy, optical methods, planetary conditions modeling, big data ML-modeling for ET research, optical waves detection, and artificial life modeling.
- The chemicals necessary for Earth's biochemistry have already been discovered in the interstellar medium, planetary atmospheres, as well as on the surfaces of comets, asteroids, meteorites, and interplanetary dust particles. In fact, the building blocks of life are not in short supply.
- Astrobiology can barely be separated from its cultural context, including philosophical, ethical, and theological aspects, because the discovery and continued study of extraterrestrial life will radically challenge our understanding of nature, including ourselves.
- The chemicals necessary for Earth's biochemistry have already been discovered in the interstellar medium, planetary atmospheres, as well as on the surfaces of comets, asteroids, meteorites, and interplanetary dust particles. In fact, the building blocks of life are not in short supply.
- Similar to biosignatures, which indicate the presence of life, whether sentient or not, technosignatures also indicate the presence of life. Radio broadcasts are sometimes left out of definitions by authors; however, this limited usage is not common.

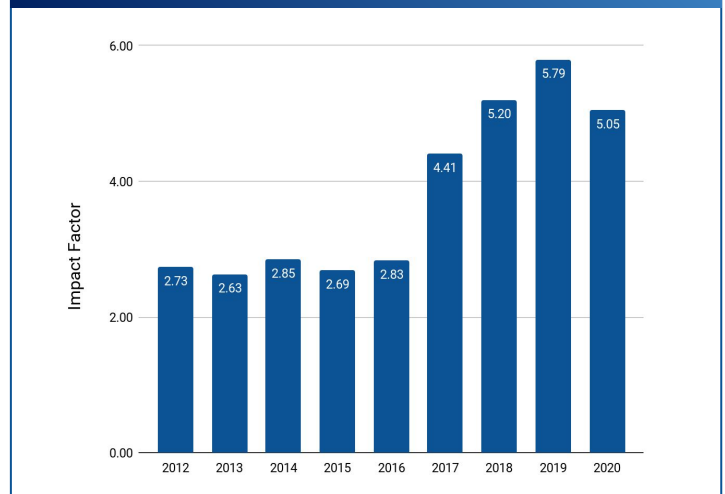


This special overview is the first step in separating truth from fiction in humanity's attempt to find intelligent life beyond our planet **by bringing together in one organization the latest discoveries**, trends, and developments in the field of extraterrestrial activity research. Extraterrestrial Institute created a **framework prototype** in order to provide the interested parties with an **advanced definition** of extraterrestrial activity research, which will provide the niche with a huge leap forward in terms of newfangled R&D.

Dynamics of Scientific Publications on Extraterrestrial Life

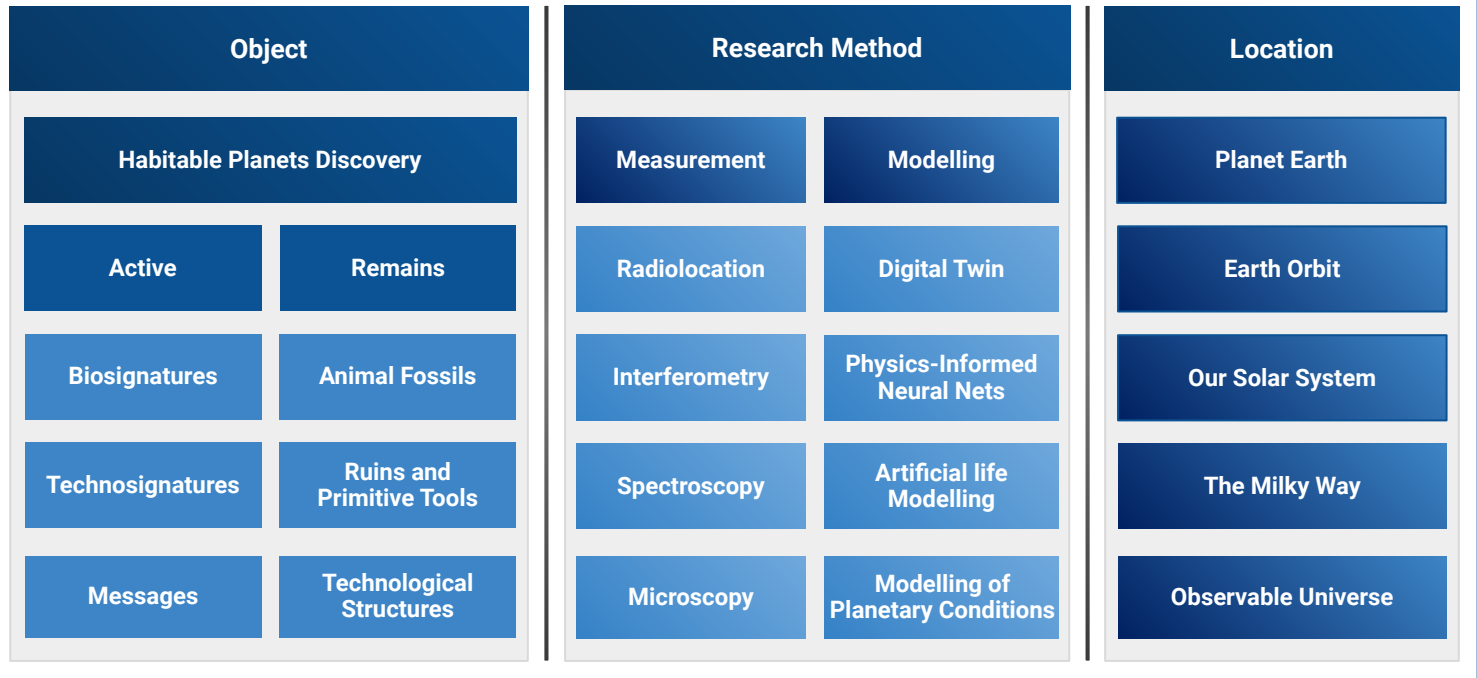


The Impact Factor (IF) of Astrobiology Journal





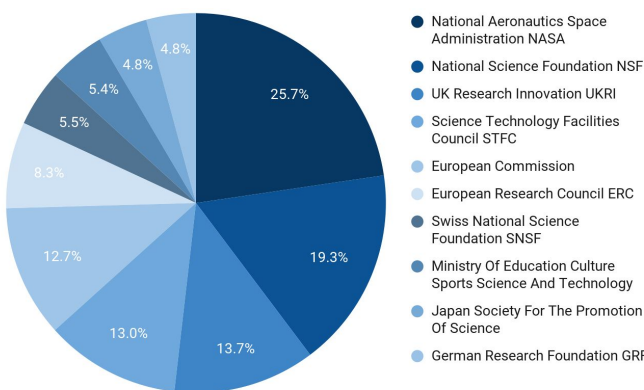
Study of Extraterrestrial Activity Framework Prototype



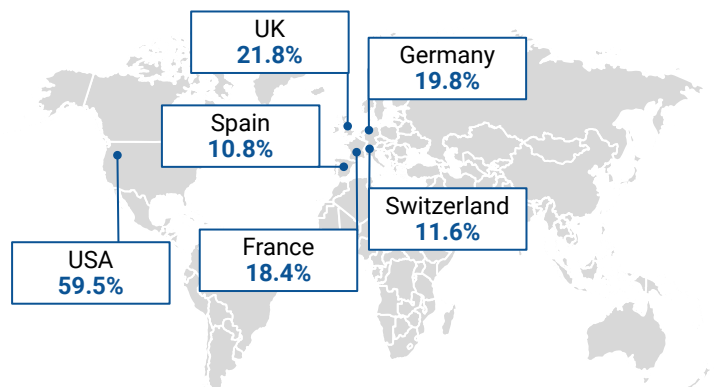
Potentially Habitable Planets (Million) 300	Possible Alien Megastructures (Thousand) 300	Confirmed Exoplanets 5000
Research Organisations 50	Academic Articles (Thousand) 10	Funding Agencies 6500

Research Competition in Finding Extraterrestrial Intelligence

Top-10 Agencies which Fund Astrophysics Research



Top-5 Countries by the Number of Publications on the Topic of Extraterrestrial Life



By the number of publications related to the extraterrestrial life research, USA takes the first place having slightly more than a half of all published scientific papers. It correlates well with the fact that top-2 agencies which fund astrophysics research are both US organisations: NASA and NSF. Other 4 leaders by the number of selected scientific publications are all located in Europe, where the UK accounts 21.8% of all publications. That is not quite a surprise, since it is the British organisations which take 3rd and 4th places in the list of funding agencies: UKRI and STFC (parent organisation: UKRI).