SAGE-II Annual Report

Publications: (major publications resulting from the work under the award)

EarthScope runs the Seismological Facility for the Advancement of Geoscience, or SAGE, which is a university research consortium dedicated to exploring the Earth's interior and earthquake processes through the collection and distribution of seismological data. SAGE plays an important supporting role in scientific research, reflected through citations in publications of research papers and abstracts. The existing database of publications based on the use of SAGE-funded resources has more than 8,000 entries from 2014 until present.

To maintain continuity while searching journals and procuring citations, the processes and procedures used since 2014 were followed closely and improved upon where applicable. These procedures and data findings are outlined below.

Citations Summary – Calendar Year 2022

Between January 1, 2022 and December 31, 2022, there were 804 references to SAGE-related data or products in published scientific literature. This includes 618 references in top journals (Top 11 and 26 others),186 references in additional journals and books. We did not compile citations for conference proceedings, theses, or dissertations this year, but typically, those number around 200 citations.

Introduction

The aim of this year's project was to continue the 21-year compilation of IRIS-related citations into one database. In order to maintain continuity while searching journals and procuring citations, the processes and procedures used in previous years were followed as closely as possible and improved upon where applicable. These procedures and data findings are outlined below.

Searching for IRIS Citations from 2021

The 11 most prominent Earth science journals were given priority while searching. These journals are:

- *Bulletin of Seismological Society of America (BSSA)*
- *Journal of Geophysical Research (JGR)*
- *Geophysical Journal International (GJI)*
- *Seismological Research Letters (SRL)*
- *Geophysical Research Letters (GRL)*
- *Earth and Planetary Science Letters (EPSL)*
- *Physics of the Earth and Planetary Interior (PEPI)*
- *Tectonophysics (TP)*
- *Nature and related journals*
- *Science and related journals*
- *Geology*

The journals were searched for the following key words:

- *IRIS*
- *Incorporated Research Institutions for Seismology*
- *PASSCAL*
- *DMC*
- *DMS*
- *Data Management Center*
- *Global Seismographic Network (and Global Seismic Network)*
- *GSN*
- *GDSN*
- *Seismological Facility for the Advancement of Geoscience*
- *SCARDEC*
- *USArray*
- *EarthScope*
- *Transportable Array (TA)*
- *Magnetotellurics*
- *Flexible Array*
- *Greenland Ice Sheet Monitoring Network (GLISN)*
- *www.iris.edu*
- *SAGE*

All searches were carried out electronically with different search engines for journals as follows:

- For American Geophysical Unions publications (*Journal of Geophysical Research* and *Geophysical Research Letters*), the Wiley search engine was used.
- *Geophysical Journal International* was searched with the journal's search engine.
- For Seismological Society of America publications (*Bulletin of Seismological Society of America* and *Seismological Research Letters*), the GeoScienceWorld search engine was used.
- For Elsevier publications (*Earth and Planetary Science Letters*, *Physics of the Earth and Planetary Interiors*, and *Tectonophysics*) the ScienceDirect engine was used.
- *Nature* and *Science* have their own search engines on their respective web pages.
- For the Geological Society of America publication, *Geology,* the GeoScienceWorld engine was used.

Most of these search engines are capable of an all-text search, which often brings up unrelated documents as well as the intended SAGE research results. To cull unrelated references, the initial search results were individually examined, and the unrelated entries were deleted. For the remaining documents, a manual "find" function was performed for the appropriate keyword in the abstract, primary text, figures, funding sources and/or acknowledgements. If the document was relevant, it was marked and exported into the database using Zotero.

The distribution of findings are as follows:

Table 1. Total number of citations in the Top 11 journals.

No.	Journal	Jan 2022 - Dec 2022
1	Bulletin of the Seismological Society of America	42
2	Journal of Geophysical Research (all subjournals)	112
3	Geophysical Journal International	96
4	Geophysical Research Letters	75
5	Earth and Planetary Science Letters	32
6	Seismological Research Letters	82
7	Physics of the Earth and Planetary Interiors	8
8	Tectonophysics	26
9	Science (and related journals)	10
10	Nature (and related journals)	26
11	Geology	8
	TOTAL	**517**

There was a decrease in the total number of citations found in these journals in 2022 compared to calendar year 2021 – there were 606 citations in 2021 and 517 citations in 2022. Since the inception of the SAGE citations database in 2000, the number of IRIS-related citations in these journals has typically increased (Figure 1), although there are occasional decreases like this year.

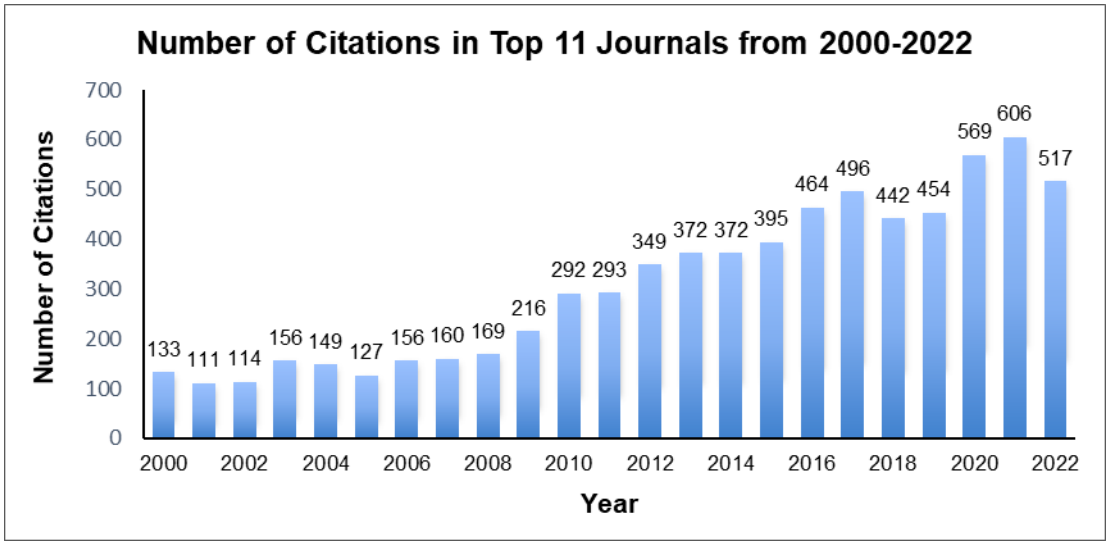

Figure 1. Total number of IRIS-related citations in the 11 most prominent earth science journals since the inception of the database in 2000. The number above each bar is the total number of citations in the Top 11 journals for that year.

This year, there were fewer SAGE-related publications in *BSSA, JGR, SRL, PEPI, Science and related, Nature and related,* and *Geology*. Refer to Figure 2 to see a direct comparison of the number of citations in each journal for the last two calendar years.

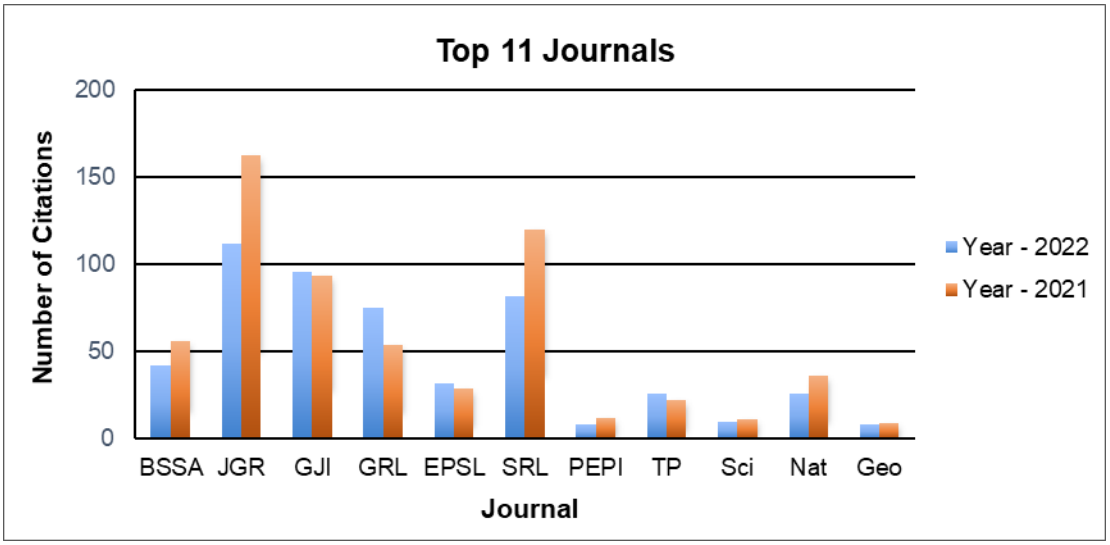

Figure 2. Number of publications in the Top 11 journals during calendar years 2021 and 2022.

Searching for SAGE-related Citations in Other Important Earth Science Journals

EarthScope promotes continuous conducting of geophysical investigations of seismic sources and Earth properties through its facilities and allows free and unrestricted access to its seismic database, which is one of the largest in the world. Researchers around the world use the EarthScope/SAGE database to explore the lithosphere, cryosphere, atmosphere, hydrosphere and deep Earth in unprecedented ways. The types of scientific findings aided by SAGE facilities are extremely varied, and this is reflected in the number and type of journals that cite IRIS data, instruments, and facilities. Given the importance of some of these journals, their impact factor and effectiveness citation index, 26 other Earth science publications were selected for expanding the search for SAGE-related citations. These journals are:

- *Canadian Journal of Earth Sciences*
- *Geophysics*
- *The Leading Edge*
- *Reviews of Geophysics*
- *Tectonics*
- *Natural Hazards and Earth System Sciences*
- *Journal of Structural Geology*
- *Natural Hazards*
- *Geochemistry, Geophysics, Geosystems*
- *Soil Dynamics and Earthquake Engineering*

- *Polar Science*
- *Journal of Glaciology*
- *Marine Geophysical Research*
- *Lithosphere*
- *Journal of Geodynamics*
- *Geosphere*
- *Journal of Volcanology and Seismology*
- *Seismic Instruments*
- *Russian Journal of Pacific Geology*
- *Journal of Volcanology and Geothermal Research*
- *Marine Geology*
- *Geomorphology*
- *Pure and Applied Geophysics*
- *Chinese Journal of Geophysics*
- *Journal of Seismology*
- *Eos*

Note: Due to changes in publishing since the 2019 report, three of the previously searched other journals have been removed from the list.

- *Earth Surface* is part of the Top 11 journal *Journal of Geophysical Research*.
- *Nature Geoscience/Nature Communication* was combined with the Top 11 journal *Nature.*
- *Journal of Earthquake Science* is no longer published and was removed. This journal is not the same as *Earthquake Science*, which began publication in 2020 and is included in Table 3.

The number of citations for each of these other important journals for the calendar years 2015 - 2022 are presented in Table 2.

Table 2. Number of citations found in 26 other important journals.

Journal	2015	2016	2017	2018	2019	2020	2021	2022
Canadian Journal of Earth Sciences	1	3	1	3	0	0	0	0
Geophysics	1	10	1	1	1	3	1	4
The Leading Edge	0	1	1	2	0	1	0	2
Reviews of Geophysics	4	2	2	0	1	1	0	2
Tectonics	4	3	7	5	7	14	12	4
Polar Science	0	0	0	2	0	1	0	0
Marine Geophysical Research	1	0	4	0	0	2	1	0
Journal of Glaciology	0	0	1	2	0	3	1	2
Lithosphere	2	0	8	3	2	1	1	4

Journal of Geodynamics	4	3	1	3	3	1	1	3
Geosphere	3	7	7	8	9	0	1	1
Journal of Volcanology and Seismology	0	0	1	1	2	2	1	2
Seismic Instruments	0	0	2	4	4	3	3	8
Natural Hazards and Earth System Sciences	0	1	0	1	0	2	3	2
Journal of Structural Geology	5	2	0	0	0	0	0	0
Natural Hazards	4	1	1	1	3	5	5	4
Geochemistry, Geophysics, Geosystems	28	22	12	21	33	34	39	26
Soil Dynamics and Earthquake Engineering	0	2	1	5	0	0	1	1
Russian Journal of Pacific Geology	0	0	0	3	0	0	0	0
Journal of Volcanology and Geothermal Research	8	3	2	7	4	3	9	8
Marine Geology	2	0	0	1	0	0	1	0
Geomorphology	1	0	0	0	1	0	0	1
Pure and Applied Geophysics	12	9	4	13	16	30	15	11
Chinese Journal of Geophysics	0	6	5	2	0	1	0	1
Journal of Seismology	0	2	3	13	11	4	11	10
Eos	4	0	0	5	8	6	5	5
Top 26 (formerly 29) Journals	**88**	**85**	**68**	**119**	**105**	**117**	**111**	**101**

The total number of citations found in these journals in 2022 is slightly lower than what was found the previous year (Figure 3).

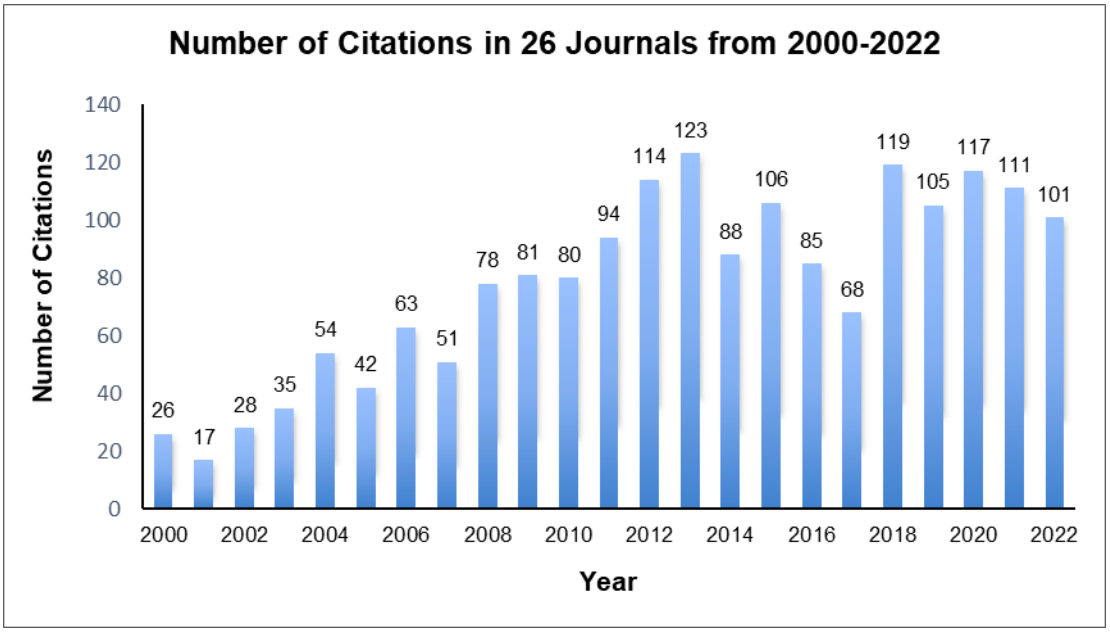

Figure 3. Graph showing the number of citations per year in the 26 journals that were also individually searched (formerly 29 journals). The number above each bar is the number of citations for that year.

Searching for SAGE Citations in Other Journals

As the application of SAGE facilities expands into new realms (e.g. rapid response, distributed acoustic sensing, and weather-related applications), citations in journals that were previously not relevant to SAGE-related research are expected. Additionally, unexpected and novel uses of the data and facilities are creating an exciting body of work outside of the traditional Earth science journals. Occasionally, books and book chapters that include SAGE data are found using our search methods.

In years past, to explore the use of SAGE data and products in journals and books outside of the traditional Earth science sphere and to show the breadth of the data usage, a generalized search was done on the aforementioned search terms using Google Scholar and Web of Science. This functionality became possible for SAGE in 2014. Each year, this search uncovers more journals that did not previously feature SAGE-related research, demonstrating the diverse applications of the data collected and provided by SAGE facilities. These journals cover a diverse range of subjects, including acoustics and radio, engineering, computer science, law, planetary science, meteorology, marine science, petroleum geology, and education.

However, as the list of journals grows, this style of search has become inefficient. Instead, we chose to use publisher search engines for each search term. We used Google Scholar when publisher search engines failed to unearth citations. Using this method, we found 186 citations in these miscellaneous journals, which is somewhat lower than the 227 found in 2021 (Table 3). Because citations aren't found in every journal every year, we only show the data from 2022.

Table 3. Additional journals and total number of SAGE-related citations in each.

Other Journals	2022
AAPG Bulletin	1
Acta Geophysica	1
Advances in Space Research	1
AGU Advances	1
Applied Sciences	4
Arabian Journal of Geosciences	4
Bulletin de la Société Géologique du France	1
Bulletin of Earthquake Engineering	1
Bulletin of Volcanology	11
China Seismic Experimental Site: Theoretical Framework and Ongoing Practice (book)	1
Computers & Geosciences	4
Data in Brief	1
Doklady Earth Sciences	1
Earth and Space Science	13
Earth Science Informatics	1
Earth System Science Data	1
Earth-Science Reviews	1
Earth, Planets, and Space	6
Earthquake Research Advances	2
Earthquake Science	3
Earthquake Spectra	3
Elements	1

Energies	1
Environmental Earth Sciences	1
Expert Systems with Applications	1
Frontiers in Built Environment	1
Frontiers in Earth Science	10
Frontiers in Physics	1
Geodesy and Geodynamics	1
Geomagnetism and Aeronomy	1
Geoscience Communication	2
Geoscience Frontiers	1
Geoscience Letters	2
Geosciences	1
Geosciences Journal	2
Geoscientific Instrumentation, Methods and Data Systems	1
Gondwana Research	1
GSA Bulletin	1
IEEE Sensors Journal	1
International Geology Review	1
International Journal of Disaster Risk Reduction	1
International Journal of Earth Sciences	4
International Journal of Rock Mechanics and Mining Sciences	1
Izvestiya, Atmospheric and Oceanic Physics	4

Izvestiya, Physics of the Solid Earth	3
Journal of African Earth Sciences	3
Journal of Applied Geophysics	2
Journal of Applied Volcanology	1
Journal of Asian Earth Sciences	5
Journal of Earth Science	2
Journal of Earth System Science	2
Journal of Ocean University of China	1
Journal of Petroleum Science and Engineering	1
Journal of South American Earth Sciences	8
Journal of the Geological Society of India	1
Landslides	2
Marine and Petroleum Geology	1
Minerals	1
Natural Hazards and the Mitigation of their Impact (book chapter)	1
Ocean Dynamics	1
Ocean Engineering	1
Oceanology	1
Perspectives of Earth and Space Scientists	2
Physics and Chemistry of the Earth, Parts A/B/C	1
Precambrian Research	1
Preview	2
Proceedings of the National Academy of Sciences	2
Progress in Earth and Planetary Science	1

Remote Sensing	1
Rocky Mountain Geology	1
Science China Earth Sciences	2
Scientific Drilling	1
Seismica	2
Sensors	2
Solid Earth	1
Space Weather	2
Surveys in Geophysics	2
Symmetry	1
Terrestrial, Atmospheric and Oceanic Sciences	3
The Journal of the Acoustical Society of America	1
The Planetary Science Journal	1
The Seismic Record	17
Total	**186**

Findings from 2022

Between January 1, 2021 and December 31, 2021, there were 804 references to SAGE-related data or products in published scientific literature that we searched. This includes 618 references in top journals (Top 11 and 26 others), and 186 references in additional journals and books.

The 2022 List of Citations for this SAGE-II Annual Report is provided in Appendix A.

SAGE January – December 2022 Citations

Abbey, A. L., Choi, E., Neumann, F., Ortiz-Guerrero, C., & Tondi, R. (2022). Tectonophysics Perspectives on Integrated, Coordinated, Open, Networked (ICON) Science. Earth and Space Science, 9(5), e2021EA002144. https://doi.org/10.1029/2021EA002144

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