

SAGE-II Annual Report

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

EarthScope runs the [NSF Seismological Facility for the Advancement of Geoscience](#), or NSF 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. NSF 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 NSF SAGE-funded resources has nearly 9,000 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 2023

Between January 1, 2023 and December 31, 2023, there were 804 references to SAGE-related data or products in published scientific literature. This includes 585 references in top journals (Top 11 and 26 others) and 219 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.

Searching for SAGE Citations from 2023

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:

- | | |
|--|------------------|
| • <i>IRIS</i> | • <i>SCARDEC</i> |
| • <i>Incorporated Research Institutions for Seismology</i> | • <i>USArray</i> |

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

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

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

Most of these search engines are capable of a full-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 using the “find” function for the appropriate keyword. 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 2023 - Dec 2023
1	Bulletin of the Seismological Society of America	58
2	Journal of Geophysical Research (all subjournals)	120
3	Geophysical Journal International	53

4	Geophysical Research Letters	69
5	Earth and Planetary Science Letters	20
6	Seismological Research Letters	88
7	Physics of the Earth and Planetary Interiors	10
8	Tectonophysics	23
9	Science (and related journals)	8
10	Nature (and related journals)	50
11	Geology	4
	TOTAL	503

There was a slight decrease in the total number of citations found in these journals in 2023 compared to calendar year 2022, with there being 517 citations in 2022 and 503 citations in 2023. Since the inception of the SAGE citations database in 2000, the number of SAGE-related citations in these journals has typically increased (Figure 1), although there are occasional decreases like this year.

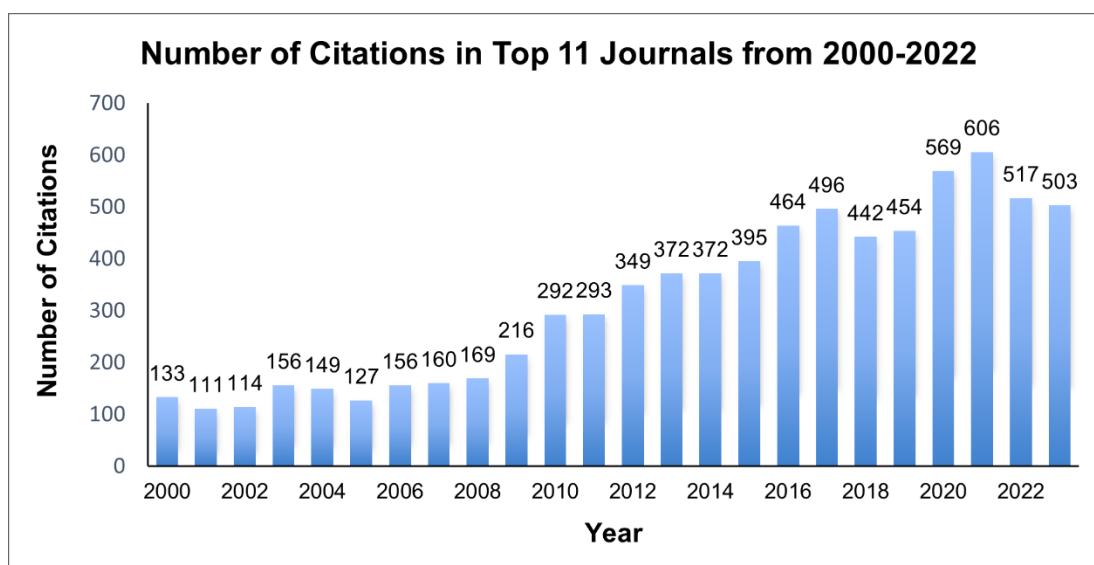


Figure 1. Total number of SAGE-related citations in the 11 most prominent earth science journals since the inception of the database in 2000. The number above each bar is the total number of citations in the Top 11 journals for that year.

This year, there were fewer SAGE-related publications in *GJI*, *GRL*, *EPSL*, *Tectonophysics*, *Science 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.

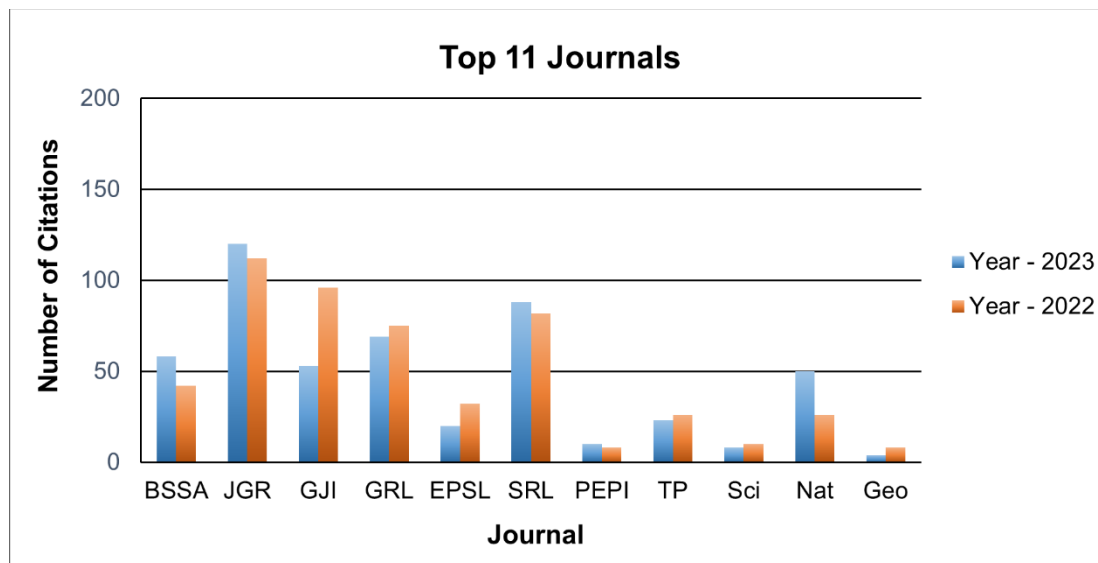


Figure 2. Number of publications in the Top 11 journals during calendar years 2022 and 2023.

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

EarthScope promotes continuous 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 SAGE data, instruments, and facilities. Given the importance of some of these journals, their impact factor and effectiveness citation index, 26 other Earth science publications have been regularly searched for SAGE-related citations. These journals are:

- *Canadian Journal of Earth Sciences*
- *Geophysics*
- *The Leading Edge*
- *Reviews of Geophysics*
- *Tectonics*
- *Polar Science*
- *Journal of Glaciology*
- *Marine Geophysical Research*
- *Lithosphere*
- *Natural Hazards and Earth System Sciences*
- *Journal of Structural Geology*
- *Natural Hazards*
- *Geochemistry, Geophysics, Geosystems*
- *Soil Dynamics and Earthquake Engineering*
- *Russian Journal of Pacific Geology*
- *Journal of Volcanology and Geothermal Research*
- *Marine Geology*
- *Geomorphology*

- *Journal of Geodynamics*
- *Geosphere*
- *Journal of Volcanology and Seismology*
- *Seismic Instruments*
- *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 this 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 journals for the calendar years 2015 - 2023 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	2023
Canadian Journal of Earth Sciences	1	3	1	3	0	0	0	0	1
Geophysics	1	10	1	1	1	3	1	4	8
The Leading Edge	0	1	1	2	0	1	0	2	0
Reviews of Geophysics	4	2	2	0	1	1	0	2	0
Tectonics	4	3	7	5	7	14	12	4	3
Polar Science	0	0	0	2	0	1	0	0	0
Marine Geophysical Research	1	0	4	0	0	2	1	0	0
Journal of Glaciology	0	0	1	2	0	3	1	2	1
Lithosphere	2	0	8	3	2	1	1	4	1
Journal of Geodynamics	4	3	1	3	3	1	1	3	3
Geosphere	3	7	7	8	9	0	1	1	1
Journal of Volcanology and Seismology	0	0	1	1	2	2	1	2	1

Seismic Instruments	0	0	2	4	4	3	3	8	0
Natural Hazards and Earth System Sciences	0	1	0	1	0	2	3	2	2
Journal of Structural Geology	5	2	0	0	0	0	0	0	0
Natural Hazards	4	1	1	1	3	5	5	4	3
Geochemistry, Geophysics, Geosystems	28	22	12	21	33	34	39	26	26
Soil Dynamics and Earthquake Engineering	0	2	1	5	0	0	1	1	5
Russian Journal of Pacific Geology	0	0	0	3	0	0	0	0	0
Journal of Volcanology and Geothermal Research	8	3	2	7	4	3	9	8	5
Marine Geology	2	0	0	1	0	0	1	0	0
Geomorphology	1	0	0	0	1	0	0	1	1
Pure and Applied Geophysics	12	9	4	13	16	30	15	11	8
Chinese Journal of Geophysics	0	6	5	2	0	1	0	1	1
Journal of Seismology	0	2	3	13	11	4	11	10	11
Eos	4	0	0	5	8	6	5	5	1
Top 26 (formerly 29) Journals	88	85	68	119	105	117	111	101	82

The total number of citations found in these journals in 2023 is lower than what was found the previous year (Figure 3).

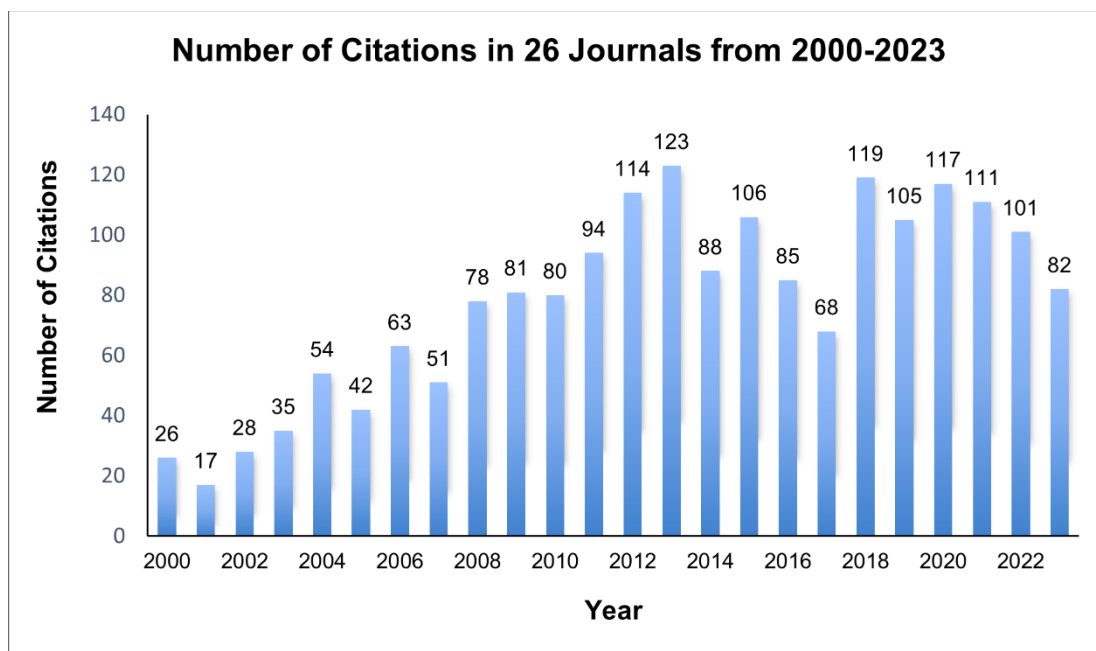


Figure 3. Graph showing the number of citations per year in the 26 journals that were also individually searched (formerly 29 journals). The number above each bar is the number of citations for that year.

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 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 219 citations in these miscellaneous journals, which is higher than the 186 citations found in 2022 (Table 3). Because citations aren't found in every journal every year, we only show the data from 2023.

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

Other Journals	2023
Acta Geophysica	2
Acta Seismologica Sinica	1
Advances in Space Research	1
AGU Advances	1
Annals of Geophysics	1
Annual Review of Earth and Planetary Sciences	1
Applied Geophysics	1
Applied Science	7
Arabian Journal of Geosciences	1
Artificial Intelligence in Geoscience	1
Atmosphere	1
Carbonates and Evaporites	1
Circuits, Systems, and Signal Processing	1
Cognizance Journal of Multidisciplinary Studies	1
Computers & Geosciences	2
Data in Brief	1
Dynamics of Plate Tectonics and Mantle Convection (book)	1
Earth and Space Science	4
Earth Science Informatics	2

Earth System Science Data	1
Earth-Science Reviews	2
Earth, Planets, and Space	3
Earthquake Research Advances	5
Earthquake Science	7
Earthquake Spectra	3
Economic and Environmental Geology	1
Encyclopedia of Mathematical Geosciences	1
Environmental Earth Sciences	1
Environmental Research Letters	1
Environmental Research, Engineering and Management	1
Frontiers in Earth Science	21
Future Generation Computer Systems	1
Geo-Marine Letters	1
Geochimica et Cosmochimica Acta	1
Geofísica internacional	1
Geohazards	1
Geohazards: Analysis, Modelling and Forecasting (book)	1
Geomatics, Natural Hazards and Risk	2
Geoscience Frontiers	1
Geoscience Letters	1

Geosciences	2
Geoscience Journal	1
Geoscientific Model Development	1
Geosystems and Geoenvironment	3
Gondwana Research	2
GSA Bulletin	2
IAES International Journal of Artificial Intelligence (IJ-AI)	1
IEEE Geoscience and Remote Sensing Letters	1
IEEE Open Journal of Instrumentation and Measurement	1
IEEE Sensors Journal	1
IEEE Transactions on Geoscience and Remote Sensing	1
IEEE Transactions on Neural Networks and Learning Systems	1
Indonesian Journal of Earth Sciences	1
Intelligent Methods and Motivations to Use in Volcanology and Seismology (book)	1
IOP Conference Series: Earth and Environmental Science	13
iScience	1
Izvestiya, Atmospheric and Oceanic Physics	1
Izvestiya, Physics of the Solid Earth	4
Journal of African Earth Sciences	1
Journal of Applied Geophysics	2

Journal of Asian Earth Sciences	6
Journal of Asian Earth Sciences: X	1
Journal of Earth Science	2
Journal of Earth System Science	1
Journal of Geoscience Education	2
Journal of Mechanical Science and Technology	1
Journal of Physics: Conference Series	1
Journal of Physics: Theories and Applications	1
Journal of South American Earth Sciences	7
Natural Hazards Research	1
Perspectives of Earth and Space Scientists	1
Petrology	1
Physical Review D	1
Proceedings of the National Academy of Sciences	1
Progress in Earth and Planetary Science	2
Remote Sensing	5
Remote Sensing of Environment	1
Resources Policy	1
Revista Mexicana de Ciencias Geológicas	1
Russian Geology and Geophysics	1
Sādhana	1
Science Bulletin	1

Science China Earth Sciences	3
SEG Discovery	1
Seismica	6
Sensors	5
Solid Earth	3
Space Weather	3
Studies in Science Education	1
Sustainability	1
Temblor	1
The Cryosphere	1
The European Physical Journal Plus	1
The Planetary Science Journal	1
The Seismic Record	18
Tikrit Journal of Administrative and Economic Sciences	1
Volcanica	1
Water	1
Water Resources Research	1
Applications of Data Assimilation and Inverse Problems in the Earth Sciences (book)	1
Total	219

Findings from 2022

Between January 1, 2023 and December 31, 2023, there were 804 references to SAGE-related data or products in published scientific literature that we searched. This includes 585 references in top journals (Top 11 and 26 others), and 219 references in additional journals and books. Interestingly, the total number of citations remained steady from 2022 to 2023. We note that although citations in the top journals have decreased, other journals have increased, which could suggest that the breadth of researchers utilizing SAGE data products has increased.

The 2023 List of Citations for this SAGE-II Annual Report is provided in Appendix A.

Appendix A

SAGE January – December 2024 Citations

- Abbasi, S., Yu, S., Akram, J., Alam, M. I., & Sarosh, B. (2023). An adaptive linear-mode decomposition for effective separation of linear and nonlinear seismic events, ground roll, and random noise. *Geophysics*, 88(4), V303–V315. <https://doi.org/10.1190/geo2022-0470.1>
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