

1. Go to the Scopus website and search for relevant papers
2. For example, we searched for each journal of interest by each year (example below: *Trends in Neuroscience*, 2020)

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Author name

Bayne, T. (2)

Massimini, M. (2)

Seth, A.K. (2)

Adalikkan, C. (1)

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1	The Brain's Glymphatic System: Current Controversies <i>Open Access</i>	Mestre, H., Mori, Y., Nedergaard, M.	2020	Trends in Neurosciences 43(7), pp. 458-466	181
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2	Astrocytes and Microglia: In Sickness and in Health <i>Open Access</i>	Vainchtein, I.D., Molofsky, A.V.	2020	Trends in Neurosciences 43(3), pp. 144-154	165
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	Document title	Year	Source	Cited by
1	The Brain's Glymphatic System: Current Controversies <i>Open Access</i>	2020	Trends in Neurosciences 43(7), pp. 458-466	181

- Export all the references, as done above. We follow these two steps (i.e., two separate downloads) to establish an “article database” and a “reference database.” This saves time when downloading data through the Pybliometrics API

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	Document title	Authors	Year	Source	Cited by
1	Cerebral organoid model reveals excessive proliferation of human caudal late interneuron progenitors in tuberous sclerosis complex <a href="#">PDF</a>	Eichmüller, O.L., Corsini, N.S., Vértessy, Á., (...), Paredes, M.F., Feucht, M.	2022	bioRxiv	7
2	Statistics and samples in distributional reinforcement learning <a href="#">PDF</a>	Rowland, M., Dadashi, R., Kumar, S., (...), Bellemare, M. G., Dabney, W.	2022	International Conference on Machine Learning pp. 5528-5536	10
3	Cooperative synaptic and intrinsic plasticity in a dysynaptic limbic circuit drive stress-induced anhedonia and passive coping in mice <i>Open Access</i>	Pignatelli, M., Tejeda, H.A., Barker, D.J., (...), Nestler, E.J., Bonci, A.	2021	Molecular Psychiatry 26(6), pp. 1860-1879	12

- Run `sc_journal.py`, modifying the folder structure as necessary. In our case, we had three folders (“All\_Neuro”, “All\_Neurology”, “All\_Psychiatry”). Within each of those three

folders were folders for each journal, which included both the article database .csv files and reference database .csv files for many years.

7. Run `get_auth_info.py`. This will add author information to the self-citation information obtained in the previous steps.
8. Use [genderize.io](https://genderize.io) to probabilistically assign gender to each name. We recommend using the .csv tool, but you may also use their Python API. Please note that this requires a paid subscription.
9. Finally, perform the desired analysis. You can see our analysis in the notebook `bootstrap_analysis.ipynb`.