

## Rigorous Literature Review: Open Science Policy

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**Abstract :** This article documents how open science policy is perceived in the scientific literature globally throughout the history. It also presents what policy needs are persistent to enable safe and effective dissemination of scientific knowledge. This information may be of interest to open science and science policy makers globally, especially in the view of recent adoption of supranational open science policies such as Plan S. Evaluation of open science policy landscape is in pressing need of assessment regarding its impact on the research community and society at wide as no previous literature review has been conducted on the topic. This study is a rigorous literature review based on constructivist grounded theory method on the full body of scientific open science policy publications. Selection of these articles has been conducted in 2019 and 2020 in major global knowledge databases. Through the analysis of these articles, two key themes emerged that are seen to shape the relationship between science and society. 1st is that of the policy enabling open science in a safe and effective way, and 2nd is that of the outcome of the science policy may have on the research community and the wider society. These findings accentuate that open science policies can have a major impact on not only research process and availability of knowledge but also on society itself. As an outcome of this study, a theoretical framework is constructed, and the need for further study on open science policy itself on a higher level becomes apparent.

**Keywords :** constructivist grounded theory, open science policy, rigorous literature review, science policy

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