

Rowan University

## Rowan Digital Works

---

Libraries Scholarship

University Libraries

---

7-14-2023

### Gold Open Access Publishing Rates Spanning 10 years in Science and Engineering Disciplines at Rowan University

Daniel G. Kipnis

Rowan University, kipnisd@rowan.edu

Denise Brush

Rowan University, brush@rowan.edu

Follow this and additional works at: [https://rdw.rowan.edu/lib\\_scholarship](https://rdw.rowan.edu/lib_scholarship)



Part of the [Scholarly Communication Commons](#)

---

#### Recommended Citation

Kipnis, Daniel G. and Brush, Denise, "Gold Open Access Publishing Rates Spanning 10 years in Science and Engineering Disciplines at Rowan University" (2023). *Libraries Scholarship*. 45.

[https://rdw.rowan.edu/lib\\_scholarship/45](https://rdw.rowan.edu/lib_scholarship/45)

This Presentation is brought to you for free and open access by the University Libraries at Rowan Digital Works. It has been accepted for inclusion in Libraries Scholarship by an authorized administrator of Rowan Digital Works.

**Gold Open Access  
Publishing Rates  
Spanning 10 years  
in Science and  
Engineering  
Disciplines at  
Rowan University**

Dan Kipnis and Denise Brush  
Rowan University Libraries  
Glassboro, New Jersey

2023 STEM Libraries South  
July 14, 2023



## Overview

- We will share data from an analysis of 10 years (2013-2022) of Gold Open Access (OA) publications at Rowan university, a rising R2 public University in New Jersey.
- We will share STEM disciplinary differences in publication rates in Gold Open Access.
- We will conclude by sharing the publishers with the highest rate of publishing Gold Open Access for our Science and Engineering Faculty.



## Definition of Gold Open Access

- “Published version with Creative Commons license, available on publisher platform. Documents are in journals which only publish open access”

Source:

<https://blog.scopus.com/posts/scopus-filters-for-open-access-type-and-green-oa-full-text-access-option#:~:text=Examples-,Gold,Article%20from%20Heliyon>



## Our research questions

1. Has Gold OA publication by our STEM faculty increased over the past 10 years?
2. How do Gold OA publications rates (as a % of total publications) compare between STEM fields?
3. Which publishers do our STEM faculty use for OA?



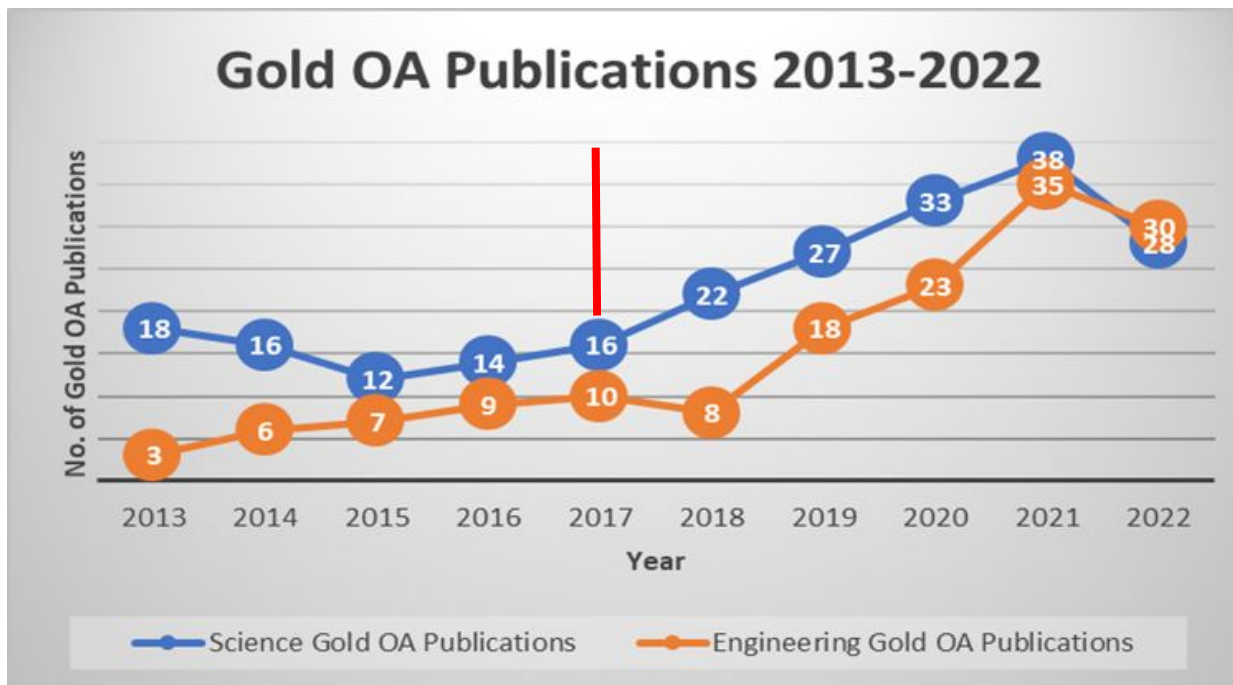


## Our research method

- Used Scopus database to find Gold OA articles by STEM faculty at Rowan University
- Examined Gold OA and non-Gold OA publications from 2013 - 2022
- Analyzed data in a [paper](#) published earlier this year (Feb. 2023) in *Science and Technology Libraries*



Has Gold OA publication by our STEM faculty increased over the past 10 years? Combined increase of 176% since 2013.

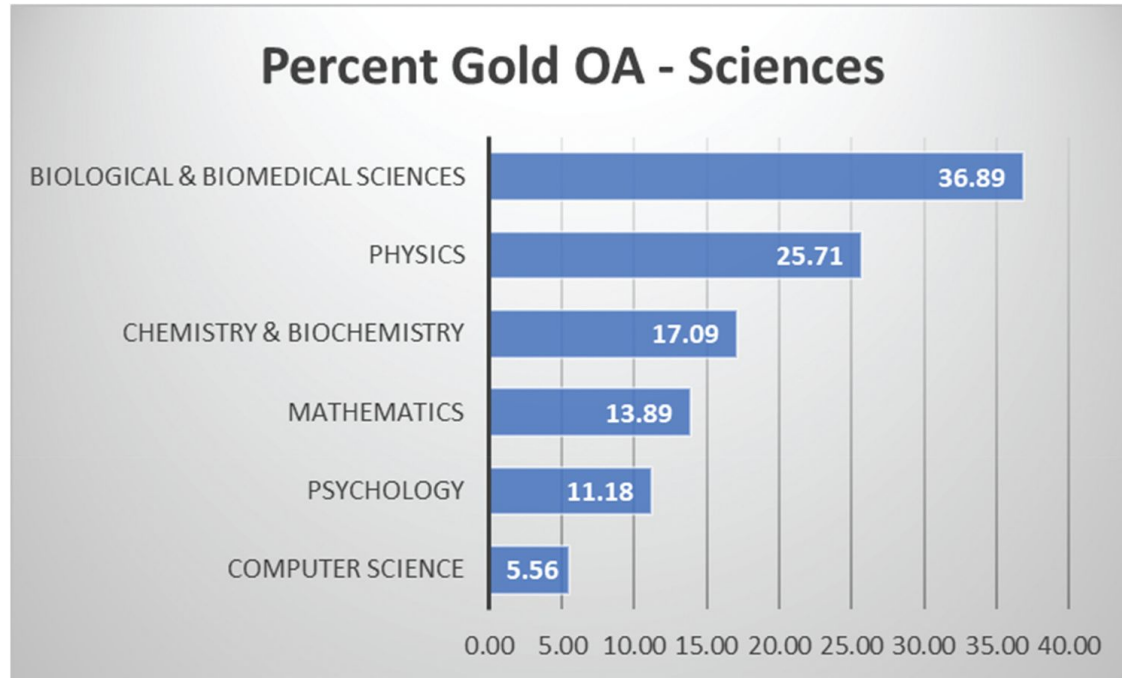


Open access  
Publishing  
fund started  
2017

Red line  
indicates start  
of fund



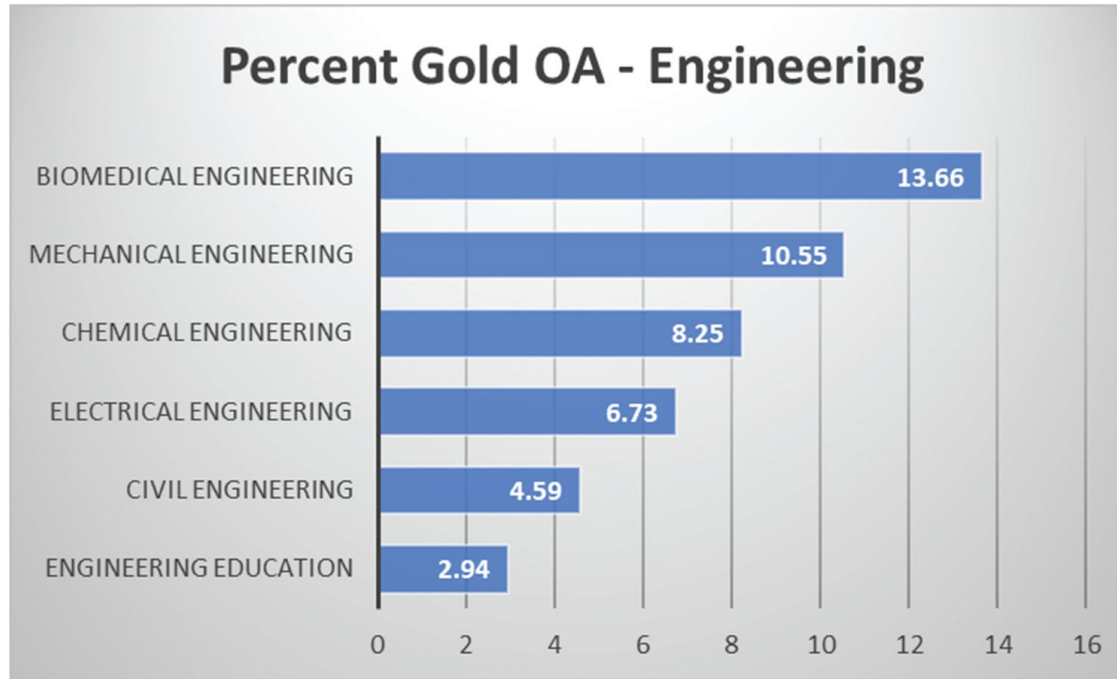
## How do Gold OA publications rates (as a % of total publications) compare between our Science departments?







## How do Gold OA publications rates (as a % of total publications) compare between our Engineering departments?



# Which publishers do our Science faculty use?

<b>Department</b>	<b>Most frequent publisher</b>	<b>Second most frequent publisher</b>	<b>Third most frequent publisher</b>
Biological Sciences	MDPI (31)	PLoS One (15)	Springer/Nature (10)
Chemistry	MDPI (24)	Elsevier (6) and PLoS One (6)	Frontiers (3)
Computer Science	BioMed Central (BMC) (2) and MDPI (2)	IEEE (1) and JMIR Publications (1)	Open Exploration (1) and Wiley (1)
Mathematics	Biomed Central (3)	American Physical Society (2)	American Statistical Association and nine others (1 each)
Physics	MDPI (31)	American Physical Society (10)	Springer/Nature (6)
Psychology	JMIR Publications (12)	PLoS One (5)	Frontiers & BMC (4 ea.)

# Which publishers do our Engineering faculty use?

Department	Most frequent publisher	Second most frequent publisher	Third most frequent publisher
Biomedical Eng.	Springer Nature and MDPI (8 each)	Frontiers (5)	PLoS One (2)
Chemical Eng.	MDPI (9)	RSC (4)	Elsevier (3)
Civil Eng.	MDPI (6)	Elsevier (5)	Pouyan Press (2)
Electrical Eng.	MDPI (8)	Optica (5)	Wiley (4)
Engineering Education	MDPI (3)	Intl. Association of Online Eng. (1)	Pontificia Universidad Javeriana (1)
Mechanical Eng.	MPDI (11)	Springer Nature and Elsevier (9 each)	AAAS (3)



## Conclusions

- In the six years (2017–2022) since an Open Access Publishing Fund was started, Open Access publications in STEM have increased 123%.
- Faculty whose research is related to biology (chemistry, biology, biomedical engineering) have significantly higher percentages of OA publication than those in other departments.



## Conclusions

- PLoS One was one of the first Gold OA journals. Since its launch there have been many other publishers to follow their lead in the past ten years.
- MDPI, a publisher based in Switzerland, publishes over 420 journals in a variety of disciplines, all Gold OA with article processing fees.
- Many longtime STEM publishers, such as Elsevier, Wiley, Springer Nature, and others launched flagship Gold OA journals to accompany their traditional suite of journals.



## Questions

- Dan Kipnis, [kipnisd@rowan.edu](mailto:kipnisd@rowan.edu)  
Life Sciences Librarian
  
- Denise Brush, [brush@rowan.edu](mailto:brush@rowan.edu)  
Institutional Repository  
& Engineering/Physical Sciences Librarian



Slides available at: [https://rdw.rowan.edu/lib\\_scholarship/45/](https://rdw.rowan.edu/lib_scholarship/45/)