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Providence St. Joseph Health Digital Commons

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2-8-2022

2021 Digital Commons Annual Report

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Providence System Library Services

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Recommended Citation

Schwartz, Amanda, "2021 Digital Commons Annual Report" (2022). *Articles, Abstracts, and Reports*. 5770.

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Digital Commons Annual Report
System Library Services
Providence
2021

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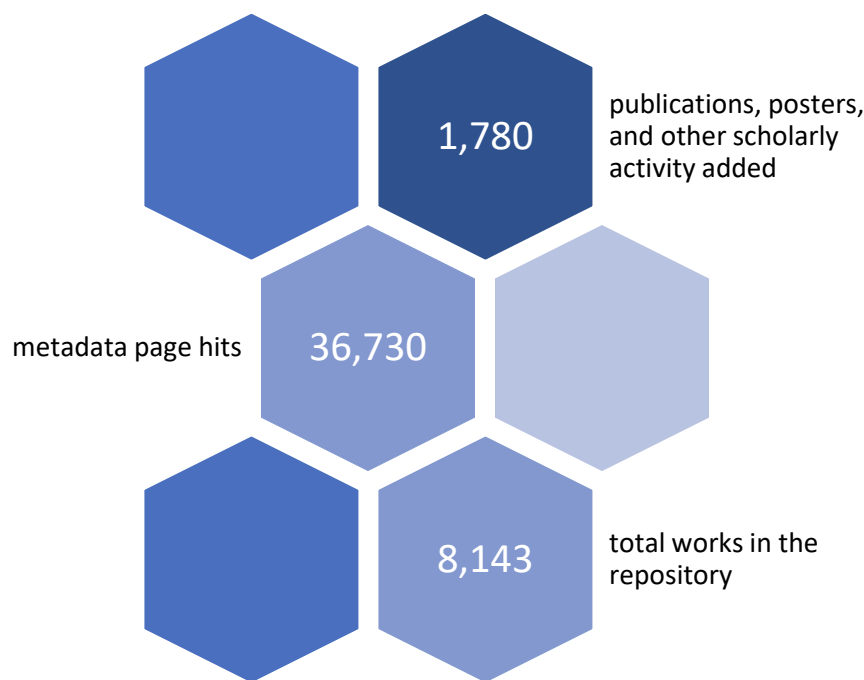
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Email: digitalcommons@providence.org

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Overview (Digital Commons and Expert Gallery Platforms)

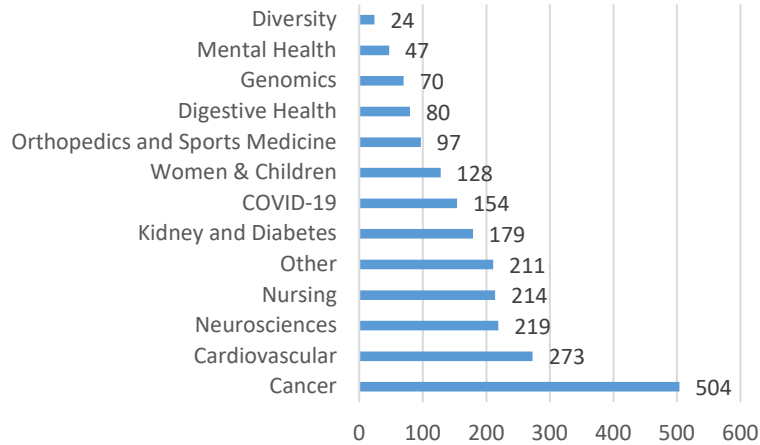
In 2021, Providence Digital Commons maintained steady growth collecting materials and building new collections. Notably, Digital Commons has received increased global usage across 158 countries. Repository usage grew 33.6% from 2020-2021.



Publications by Clinical Institute

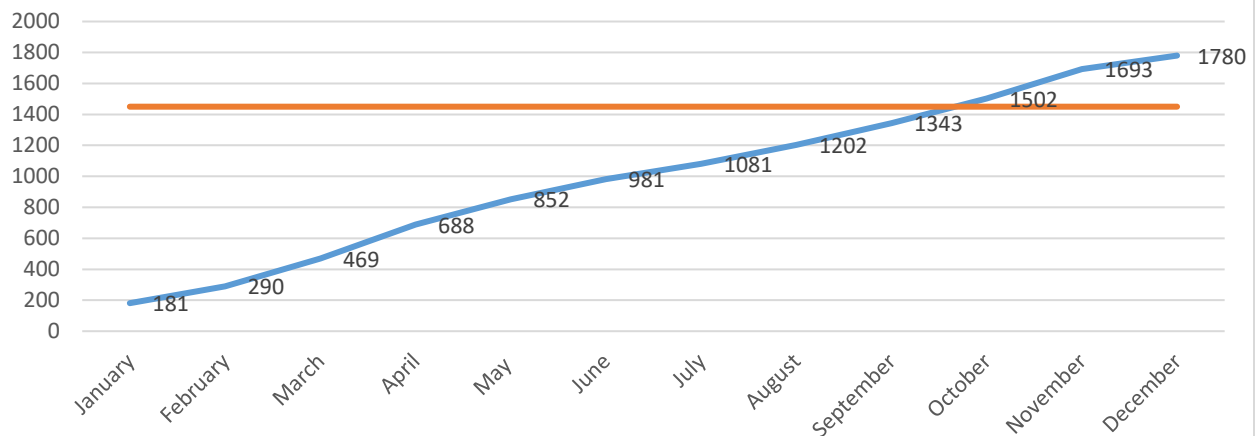
Collected publications surpassed the year-end outstanding metric target designated by System Research (1,650) with a year-end total of 1,780 submissions.

of Publications by Clinical Institute/Group 2021



| 2021 YTD | # of Pubs |
|-------------------------------|-----------|
| Cancer | 504 |
| Cardiovascular | 273 |
| COVID-19 | 154 |
| Digestive Health | 80 |
| Diversity | 24 |
| Genomics | 70 |
| Kidney and Diabetes | 179 |
| Mental Health | 47 |
| Neurosciences | 219 |
| Orthopedics & Sports Medicine | 97 |
| Nursing | 214 |
| Women & Children | 128 |
| Other | 211 |

2021 YTD Publications and Presentations



Readership Distribution

Global readership indicates the potential reach and impact of materials held in Digital Commons. 2021 held wide-ranging distribution of readership and interaction. Institutional access, both internal at Providence and from external users, was diverse.



Repository items were accessed by readers from 158 countries around the world. Top 10 countries with interaction:

Top 10 countries by download*

- United States - 18,434
- China - 3,068
- India - 912
- United Kingdom - 905
- Canada - 791
- Australia - 597
- Russian Federation - 433
- Netherlands - 391
- Germany - 376
- Republic of Korea - 375

*not all material records in Digital Commons have downloadable content; only 20% of records include downloadable files

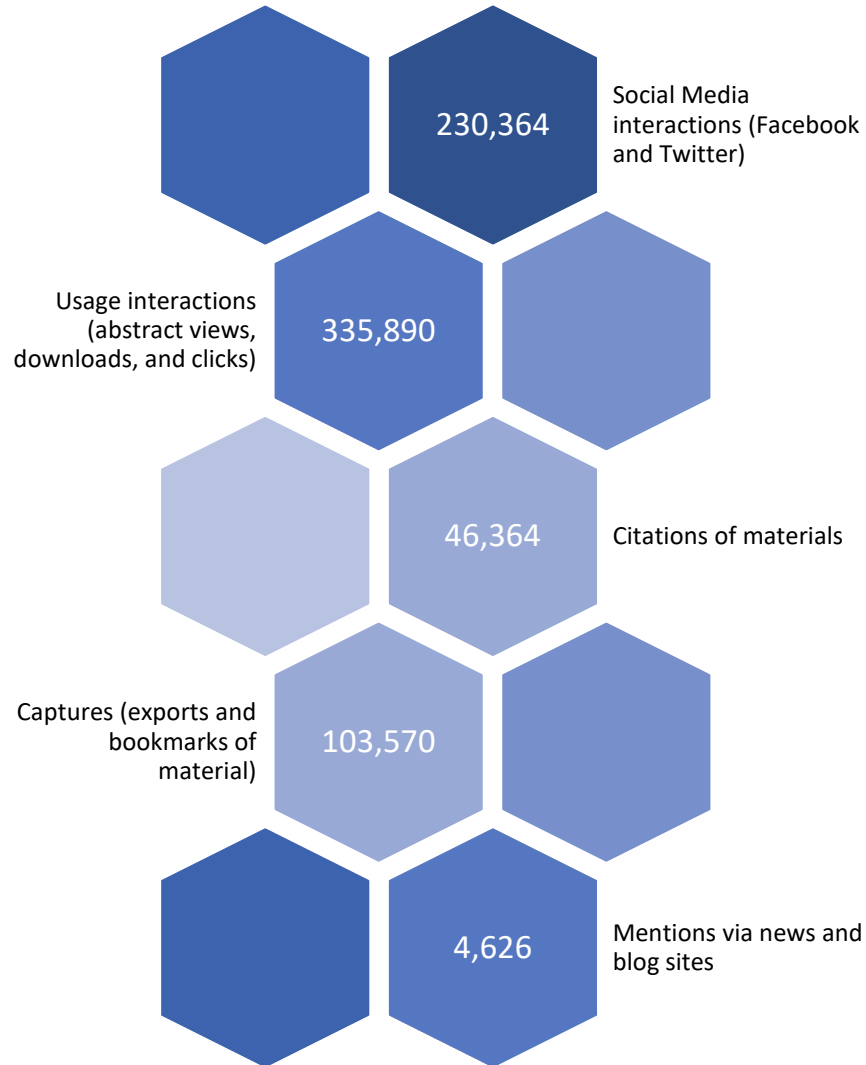


Jan - Dec 2021 Downloads
33,806

Jan - Dec 2021 Metadata Page Hits
36,730

PlumX Altmetrics

Digital Commons includes PlumX Metrics*, which allows us to see how users interact with our research items. PlumX collects internal and external data, to display how wide-reaching our research materials are.



The top five highest performing articles in each PlumX metric category were (titles highlighted in green were high-performers in multiple categories):

| Usage (abstract views/downloads/full text views/link outs/plays) | |
|--|-------|
| Digital Health Practices, Social Media Use, and Mental Well-Being Among Teens and Young Adults in the U.S. | 20845 |
| Minimally Invasive Lung Cancer Surgery Performed by Thoracic Surgeons as Effective as Thoracotomy. | 12705 |

| | |
|--|-------|
| Counseling Pregnant Women Who May Deliver Extremely Premature Infants: Medical Care Guidelines, Family Choices, and Neonatal Outcomes | 9569 |
| Are you still on the fence about wearing a mask? | 9269 |
| Sex-specific associations of maternal birthweight with offspring birthweight in the Omega study. | 7437 |
| Citations (including clinical and policy citations) | |
| First Case of 2019 Novel Coronavirus in the United States | 3001 |
| Nivolumab in patients with advanced hepatocellular carcinoma (CheckMate 040): an open-label, non-comparative, phase 1/2 dose escalation and expansion trial. | 2766 |
| Remdesivir for the Treatment of Covid-19 — Final Report | 2465 |
| Covid-19 in Critically Ill Patients in the Seattle Region — Case Series | 1275 |
| Trastuzumab Emtansine for Residual Invasive HER2-Positive Breast Cancer. | 664 |
| Captures (saves/bookmarks) | |
| Covid-19 in Critically Ill Patients in the Seattle Region — Case Series | 2164 |
| Nivolumab in patients with advanced hepatocellular carcinoma (CheckMate 040): an open-label, non-comparative, phase 1/2 dose escalation and expansion trial. | 1462 |
| Genetic meta-analysis of diagnosed Alzheimer's disease identifies new risk loci and implicates Aβ, tau, immunity and lipid processing. | 1241 |
| Neonatal Neuroprotection: Bringing Best Practice to the Bedside in the NICU. | 1126 |
| Conserved cell types with divergent features in human versus mouse cortex. | 1103 |
| Mentions (news mentions/blogs/references) | |
| Remdesivir for the Treatment of Covid-19 — Final Report | 1015 |
| First Case of 2019 Novel Coronavirus in the United States | 840 |
| Covid-19 in Critically Ill Patients in the Seattle Region — Case Series | 216 |
| Multiscale Analysis of Independent Alzheimer's Cohorts Finds Disruption of Molecular, Genetic, and Clinical Networks by Human Herpesvirus. | 205 |
| Conserved cell types with divergent features in human versus mouse cortex. | 115 |
| Social Media (Facebook count/likes/tweets) | |
| First Case of 2019 Novel Coronavirus in the United States | 63424 |
| Remdesivir for the Treatment of Covid-19 — Final Report | 42866 |
| Sodium-Glucose Cotransporter 2 Inhibition and Diabetic Kidney Disease. | 11688 |
| A History of Orthognathic Surgery in North America. | 11542 |
| Utilization of the validated Psoriasis Epidemiology Screening Tool (PEST) to identify signs and symptoms of psoriatic arthritis among those with psoriasis: a cross-sectional analysis from the US-based Corrona Psoriasis Registry. | 11537 |

*PlumX Metrics only collects all time data, and does not filter metrics by timeframe. All data listed is all time data since the establishment of the Providence Digital Commons (2018-current).

Regional Research

Breakdown of Providence research materials by region.

Numbers may vary from annual total publications based on breakdown of single and shared authorship/multiple authors from different regions within Providence.



*System tagged publications had authors affiliated at the top organizational level, without a more specific region

Noteworthy Projects

In 2021, Digital Commons focused on easing the submission process and created a new, robust system for tracking research by region. Library staff and system research identified a breakdown of regional locations and key-player-locations (institutions within the organization that are frequently affiliated to).

Researchers could also begin submitting materials using the [Digital Commons Submission Form](#), creating a streamlined experience both for users and library staff.

- To create a more organized platform, Digital Commons built special regional collections, research collections, and conference collections, totaling 38 new collections:
 - [Providence Alaska](#)
 - [Providence Alaska Medical Center](#)

- [Providence Montana](#)
- [Providence St. Patrick Hospital](#)
- [Providence Northern California](#)
- [Providence Oregon](#)
- [Providence Portland Medical Center](#)
- [Providence St. Vincent Medical Center](#)
- [Providence Southern California](#)
- [Providence Cedars-Sinai Tarzana Medical Center](#)
- [Providence Holy Cross Medical Center](#)
- [Providence Little Company of Mary](#)
- [Providence Saint John's Health Center](#)
- [Providence Saint Joseph Medical Center](#)
- [St. Joseph Southern California](#)
- Hoag Health Network (no longer active 2022)
- [Mission Hospital](#)
- [St. Joseph Hospital \(and CHOC\)](#)
- [St. Jude Medical Center](#)
- [St. Mary Medical Center](#)
- [Texas and New Mexico](#)
- [Covenant Health](#)
- [Grace Health System](#)
- [Providence Washington](#)
- [Eastern Washington](#)
- [Kadlec Regional Medical Center](#)
- [Providence Regional Medical Center – Everett](#)
- [Providence Sacred Heart Medical Center and Children's Hospital](#)
- [Swedish Medical Center](#)
- [Providence System](#)
- [Swedish Neuroscience Institute](#)

- [Swedish Heart and Vascular Institute](#)
- [Swedish Cancer Institute](#)
- [Saint John's Cancer Institute \(JWCI\)](#)
- [Pacific Neuroscience Institute](#)
- [Center for Outcomes Research and Education \(CORE\)](#)
- [Oregon Academic Achievement Day, 2021](#)
- [St. Joseph Hospital EBP Conference, 2021](#)

Internal Presentations and External Conferences

Digital Commons statistics and flexible database structure was leveraged in multiple meetings as valuable tools for research and readership tracking and departmental report-outs

Library staff continued system-wide partnerships through outreach and participation in research councils, giving 23 internal presentations and conversations on Digital Commons. Departments and special interest groups reached were:

- Nursing Research Leadership Council
- Oregon Pharmacy Residents
- Swedish Digestive Health Institute
- Swedish Neuroscience Institute
- System Ethics
- System Library Services
- System Pharmacy
- System Research

Library Director Heather J. Martin and Digital Asset Librarian Amanda Schwartz presented and published on Digital Commons and Providence research at the 2021 Medical Institutional Repositories in Libraries (MIRL) Symposium:

- [*Finding Our Stride: A Health System Repository 4 Years In / Providence Patents: Using an Institutional Repository to Promote Technology Transfer*](#)

Looking Ahead to 2021

Goals for 2022 include:

- Continue tracking research by region and applicable institution(s)
- Create a list of peer reviewed journals Providence researchers are published in
- Continue collaborative efforts with CORE/HUB team(s)