Bibliometric Analysis of OAP Articles: FY2015-2019

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September 18, 2020
ABOUT THIS ANALYSIS

• All data in this analysis is sourced from Web of Science (WOS) Science Citation Index Expanded & Social Sciences Citation Index and InCites (a WOS product) and is accurate as of September 18, 2020.

• Articles analyzed in this report are limited to peer-reviewed scholarly articles authored or coauthored by individuals employed by or resulting from funding provided by NOAA’s Ocean Acidification Program, published in FY2015 through FY2019 which have been indexed in WOS. Other publications and articles not indexed in WOS are not included in this analysis.
**SUMMARY METRICS**

<table>
<thead>
<tr>
<th>Bibliometric Indicator</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Articles</td>
<td>217</td>
</tr>
<tr>
<td><em>H5-Index</em></td>
<td>35</td>
</tr>
<tr>
<td>Total Number of Citations per Article</td>
<td>57,138</td>
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<tr>
<td>Average Number of Citations per Article</td>
<td>23.68</td>
</tr>
<tr>
<td>Percentage of Articles Cited</td>
<td>97.7%</td>
</tr>
<tr>
<td>Percentage of Articles in Top 1% **</td>
<td>5.017%</td>
</tr>
<tr>
<td>Percentage of Articles in Top 10% **</td>
<td>33.18%</td>
</tr>
<tr>
<td>Percentage of Articles that are Open Access (all types)</td>
<td>66.8%</td>
</tr>
</tbody>
</table>

* An *H5-Index* of 35 indicates that this group of 217 publications includes 35 articles that have each received 35 or more citations. *H5-Index* is limited to the last five complete publication years.

** Papers in the top 1% and top 10% based on citations by category, year, and document type. 33.18% of OAP articles received more citations than 90% of other articles published in the same category and year.
The OAP articles in this analysis have a combined *h5-Index* of **35**, meaning that 35 of the 217 articles have received 35 or more citations.

The chart is a visual representation of the *h5-index* calculation with the line of citations and number of articles intersecting at the h5-index of •35.
OAP articles appeared in 27 distinct subject categories, the top 10 of which are shown here. Subject categories are assigned by WOS based on the journal in which they appear and a single article may be assigned multiple subject categories.
OAP articles appeared in 66 distinct journal titles. The top 10 titles by number of articles are shown here.
Authors from institutions in 34 states, the District of Columbia and Guam collaborated on OAP articles.
Authors from institutions in 73 countries collaborated on OAP articles. Top non-USA collaborating countries are France, Australia, the United Kingdom and the Netherlands.
OAP articles were found to concern aquaculture, fisheries or fishery management. These articles were identified by reviewing the titles, abstracts and keywords of all OAP articles.

These articles have been cited 1,181 times by authors at more than 1,400 institutions in 64 Web of Science subject categories.
SNAPSHOT OF STANDOUT OAP ARTICLE

Global Carbon Budget 2016
Le Quere, C; Andrew, RM; Canadell, et al., 2016. Earth System Science Data, 8 (2), 605-649. DOI: 10.5194/essd-8-605-2016

Cited 584 times by 3,524 authors at 1,100+ institutions in 87 countries in 72 Subjects. The top 10 are shown here.

Each article was cited by articles in 72 Subjects. The top 10 are shown here.
Hypoxia and acidification in ocean ecosystems: coupled dynamics and effects on marine life

Cited 78 times by 333 authors at 180+ institutions in 32 countries

This article was cited by articles in 19 Subjects. The top 10 are shown here.
Climatological distribution of aragonite saturation state in the global oceans

Jiang, LQ; Feely, RA; Carter, BR; Greeley, DJ; Gledhill, DK; Arzayus, KM, 2015. Global Biochemical Cycles, 29 (10), 1656-1673. DOI: 10.1002/2015GB005198

This article was cited by articles in 22 Subjects. The top 10 are shown here.
A high-frequency atmospheric and seawater pCO(2) data set from 14 open-ocean sites using a moored autonomous system


Cited by 420 authors at 175+ institutions in 32 countries.

This article was cited by articles in 19 Subjects. The top 10 are shown here.
Impacts of Coastal Acidification on the Pacific Northwest Shellfish Industry and Adaptation Strategies Implemented in Response

Cited 107 times by 660 authors at 280+ institutions in 32 countries.

This article was cited by articles in 31 Subjects. The top 10 are shown here.
**IMPACT OF OAP ARTICLES: OVERVIEW**

*3,796* articles have cited these 217 OAP articles.

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**Annual Number of Citations of OAP Articles**

- **2015**: 134
- **2016**: 395
- **2017**: 893
- **2018**: 1,131
- **2019**: 1,733
- **2020 to date**: 1,266

Non-cumulative count of citations received by all FY2015-19 OAP articles per year.

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**Top Institutions Citing OAP Articles**

- **NOAA**: 500
- **Univ Calif Sys**: 400
- **CNRS**: 380
- **Univ of Washington**: 280
- **Hemholtz Assoc**: 260
- **Inst de Rech pour le Dev IRD**: 230
- **NASA**: 180
- **Sorbonne Univ**: 120
- **CSIRO**: 80

Top ten institutions with affiliated authors who have cited FY2015-19 OAP articles in their articles.
OAP articles have been cited in articles published in 781 distinct journal titles. The top 10 titles by number of articles are shown here.
Top ten institutions with affiliated authors who have cited FY2015-19 OAP articles in their articles. Subject categories are assigned by WOS based on the journal in which they appear and a single article may be assigned multiple subject categories.
OAP articles have also had interdisciplinary impact as shown by their citation in articles in these subject areas:

- **Forestry**: 34 articles
- **Paleontology**: 28 articles
- **Economics**: 19 articles
- **International Relations**: 20 articles
- **Public, Environmental & Occupational Health**: 16 articles
- **Green & Sustainable Science & Technology**: 108 articles
OAP articles have been cited by authors affiliated with institutions in **139** countries and territories. Top non-USA citing countries are the United Kingdom, China, Australia, Germany, and France.