Societal Impact of Research BI Norwegian Business School 2012-2020





Norwegian Business School

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Introduction

This is the first report mapping how research and research related activities at BI Norwegian Business School have a societal impact. Research has value in and of itself, given the value of the knowledge generated. However, public resources available to fund research are scarce. This has led funding agencies, including research councils and politicians to search for multiple ways to determine how limited resources can be most efficiently and effectively distributed among researchers and research projects. This challenge—to identify promising research—has motivated the development of measures to assess both the quality of scientific research itself and the societal impact of research, that is, the demonstrable contribution that excellent research makes to society and the economy, and its benefits to individuals, organizations and/or nations.

Although many bibliometric measures to evaluate promising research have been relatively successful and are widely used to determine the quality of journals, research projects and research groups, it has been much harder to develop reliable and meaningful measures to assess the societal impact of research. There are some obvious reasons for that. First, it is hard to find a direct and measurable link between the scientific quality of a research project and its societal value. Moreover, it might take years, or even decades, until a particular publication becomes highly cited, and knowledge yields new products, services or policies that affect society. The pandemic is a case in point. The world was only able to develop COVID-19 vaccines so quickly because of years of ground-breaking research on related viruses and faster ways to manufacture vaccines. Little did the scientists know that their research should have such a massive global societal impact decades after they started.

At the same time, defining the social impact of research without considering the quality of research through peer-reviewed publications and their academic impact through bibliometrics can be misleading. Researchers, universities, finance agencies and media have an incentive to get research noticed, which can lead them to hype the work more than the results suggest. Assessing the societal impact of research without knowing the academic impact can therefore be problematic.

In this report we take an inclusive approach and consider both academic and societal impact. The academic impact of BI's research is captured by traditional bibliometrics (citations) and signifiers of academic influence (editorial responsibilities, awards, organization of conferences), whilst societal impact is measured via various Altmetrics (a system that tracks the attention that research outputs such as scholarly articles and data sets receive online) and signifiers of societal influence (political appointments to committees, influence of regulations, writing of official reports).

Although the report has grown in scope since we first began this work a year ago, we emphasize that this report is a first attempt to describe the societal impact of research at BI. The learning process in how to both monitor and report the results has therefore been part of the project. We are confident that both the focus and the scope of what we can report on will continue to grow in the future, now that we have better understood the importance of research having a societal impact.

The report is organised as follow. We first give a general overview of the academic impact of BI's research, focusing on impact through publications and citations. We then describe societal impact of BIs research through policy documents, news stories and social media. The Covid pandemic illustrates the importance of research for society, and we also describe how BIs faculty have contributed to the knowledge policy makers need to make it through the crisis. Furthermore, we give examples of how research carried out by BIs researchers has relevance to the United Nations Sustainable Development Goals (SDG). Having provided a general overview, we then turn to describe academic and societal impact at each of BIs nine academic departments, giving more details and a highlight of activities with significant societal impact.

Hilde C. Bjørnland Provost for Research and Academic Resources

Oslo, September 17, 2021

WHAT IS IMPACT?

The standard definition of impact as "an effect on, change or benefit to the economy, society, culture, public policy or services, health, the environment or quality of life" comes originally from the UK's Research Excellence Framework, but has been adopted by many other countries, including Norway. Some funding regimes, such as the EU and the UK consider impact to be primarily non-academic, whilst other bodies, such as the Research Council of Norway prefer to distinguish between academic and societal impact.

Since the development of Journal Citation Reports the impact of an academic article, journal, book, or researcher has largely been measured by bibliometric methods. Bibliometrics is the quantitative analysis of the published literature: publication counts, citation scores, h-indexes, etc. While various individual bibliometric indicators have come in for some criticism over the years, it is clear that they are measuring quality, and they have undoubtedly proven useful. One significant criticism of bibliometrics, however, is that the "impact" measured by bibliometric means is largely restricted to the peer-reviewed literature and is therefore restricted to impact of an academic nature. The question of how best to measure the educational, industrial, or economic impact of research remains largely unresolved.

In 2010, a group of academics, dissatisfied with the traditional measurement of research impact via bibliometrics, published a paper proposing a family of metrics based on the new forms of data available online, that reflected the volume of online activity around a piece of research. These web-based metrics could take the form of the number of researchers who have saved an article in their Mendeley library, the number of tweets on Twitter about a research article, the number of mentions in academic blogs, the number of mentions in mainstream news outlets, citations on Wikipedia, downloads, shares, likes, and so on. They coined the term "altmetrics" – a portmanteau of "alternative metrics" – to refer to these metrics, which far from being an alternative to bibliometrics, are better thought of as complementary.

Altmetrics have several advantages over bibliometrics: they are faster, they arguably demonstrate that a piece of research has relevance outside traditional academic circles, but there are some limitations too. Are altmetrics measuring research quality, or hype? Are they rewarding media attention rather than quality research?

In this report, we have taken an inclusive approach and considered both academic and societal impact.

DATA SOURCES

There are several suppliers of altmetric services, but BI has worked exclusively with Altmetric, one of the first-movers in this relatively new field. Altmetric has developed a dashboard that pulls all publications affiliated to BI that are registered in the Norwegian national research information system (Cristin) and matches them up with online mentions in its database. At the time of preparation of this report, the coverage of Norwegian sources of policy documents was rather poor, a situation that is now rectified with the inclusion of the Norwegian government and the Research Council of Norway. Coverage of Norwegian mainstream media sources is very good, but not if the mentioning articles are hidden behind a paywall, or do not include enough information (a DOI, URL, or sufficient bibliographic information) to allow the mention to be linked to the original research article. A problem faced by altmetrics generally is that the type of attention most reflective of wider societal impact – TV and radio appearances – are not handled particularly well by the mainly text-based methods and algorithms of altmetrics collators. Unless a media outlet has provided a written transcript of a TV or radio interview with a researcher, and helpfully included a link to the original article, a DOI or a PubMed ID then a mention in the mainstream broadcast media is unlikely to be reflected in an altmetrics score.

ACKNOWLEDGEMENTS

The analysis of societal impact using the database Altmetric has been prepared by Julia Zhulanova (Advisor to the provost), Bibliometric analysis has been prepared by Craig Aaen-Stockdale (Research Administration), while Knut Myrum Næss (Communication) has been responsible for the final editing of the report with the assistance of Linn Dybdahl (Communication). Elise Marthinsen (Communication) was responsible for typesetting. Thanks to the faculty group Eivind Furuseth, Dagfinn Rime, Kim van Oorschot and Luk Warlop for giving comments on the structure of the report, and to all the Heads of Departments for their comments and guidance.

2. General Overview of BI

In this report we focus on the period 2012-2020. Starting earlier than 2012 was not possible due to data availability in the databases used. In all the tables and figures we have also chosen to exclude adjunct (part time) faculty.

ACADEMIC IMPACT OF RESEARCH

In the period between 2012 and 2020, full-time BI faculty had over 2337 publications. More than 600 of these were published in top international journals^{1.} The figure below shows the development in numbers of publications over time.

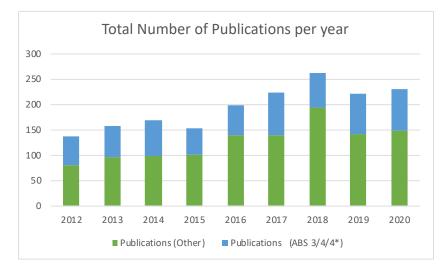


Figure 1 – Number of publications during the period between 2012 and 2020. The blue portions of the columns show publications published in top journals. The data include all publications from Cristin that have been assigned with a DOI number or an URL. Publications written by part time employees (adjunct professors) are excluded.

While it is important that research articles are of high quality, for publications to have an impact, they must be read by, and used by others. The number of citations for an article is therefore an important measure to map out the academic impact of BI's publications.

Out of 2337 publications more than 75% have received at least one citation and more than 50% have received more than 5 citations. Almost 90% of articles from top journals have received more than 5 citations, suggesting that articles published in top journals are more likely to be cited.

Since citations take a long time to accumulate, the most highly cited articles in our dataset are – with some exceptions – also among the oldest. In order to eliminate this confounding variable, we have also calculated the average citations per paper per year for all articles in the dataset.

Since the sum of citations depends on the number of publications and some departments publish more articles than others, the average number of citations per publication per year is also provided.

¹ Bl uses the journal ranking of the Chartered Association of Business Schools (ABS). The ABS ranks journals between 1 and 4 according to journal metrics, acceptance rates and general quality of published papers. The very best journals are ranked 4* (4 star). Bl consider journals ranked 3 and above to be top journals.

In Figure 2, the accumulated sum of citations per year for all departments is shown in blue, which provides a measure of the total citation impact for everything published by the department (blue columns, left-hand axis). The orange columns, on the other hand, show the citation impact of an average article from each department (orange columns, right-hand axis).

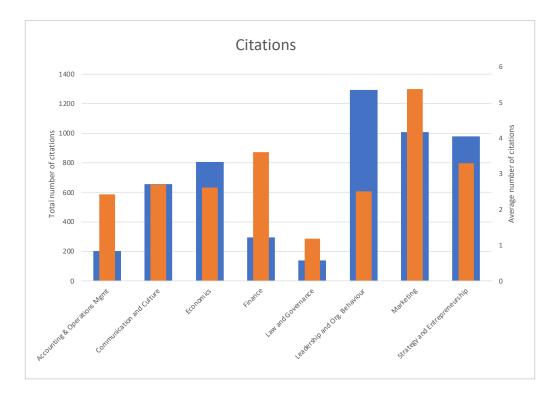


Figure 2 – Average citations per publication per year by department (orange columns) and the sum of citations per publication per year by department (blue columns).).

There are, however, some limitations with using citations as a measure of the academic impact of research. It is well known, for example, that different fields have different publishing and citation traditions, and therefore the chances of being cited vary across different fields, a phenomenon referred to as citation potential.

Mathematics or statistics have a notoriously low citation potential, while organizational psychology or marketing have a citation potential that is much higher. Therefore, an article, journal, or researcher that is considered highly cited in, say, statistics may have a much lower total number of citations than one in, say, organizational psychology. Care should therefore be taken in comparing citation impact across fields.

SOCIETAL IMPACT OF RESEARCH

Around half of the publications in the period 2012-2020 have received some sort of attention aside from citations in the peer-reviewed literature.

Our publications have been referred to in more than 149 different policy documents², more than 635 news articles and over 100 blogs. In addition, BI's publications have been used as sources in 60 articles on Wikipedia.

Our research has received a great deal of attention in social media, where our publications have been referred to in more than 8,500 tweets and 177 Facebook mentions.

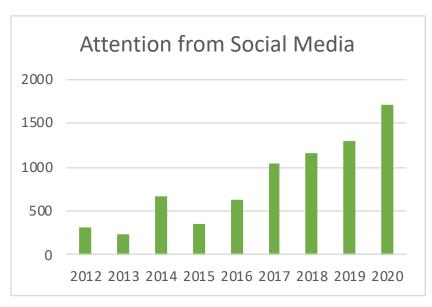


Figure 3 – The figure shows the number of mentions per year for full time employee registered in Altmetric database. In 2020 one publication that has received over twitter 2000 mentions is excluded. If a Twitter account shares a piece of research several times, Altmetrics only counts this as one time. Such that a single Twitter accounts cannot be used to inflate the number of tweets about a paper.

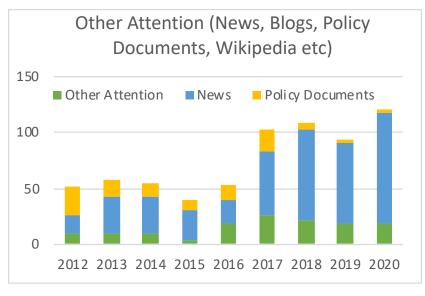


Figure 4: Mentions per year in policy documents news and other attention including blogs and Wikipedia articles.

² The actual numbers will always be higher. For example, mentions from Norges Bank and other specifically Norwegian sources of policy documents have only recently been included in the Altmetric database, and are therefore not included in this report.

Figure 5 shows the share of publications that have received attention per year. From the figure we see that research articles published in top journals have received more attention than other publications. From 2014 the share of publications published in top journals that have received non-academic citations has stayed between 50 to 60 percent, while for other publications the share has fluctuated between 30 to 50 percent.

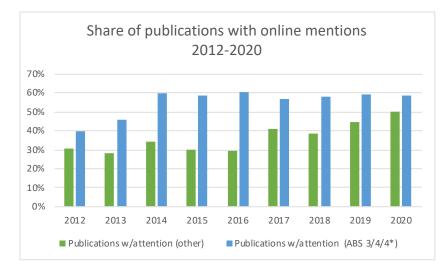


Figure 5 – Share of BI's publications that have received at least one mention registered in Altmetric database.

Breaking down different types of attention at the departmental level, figure 6 shows Twitter is by far the most common for all departments. It accounts for more than 80% of all mentions in each of departments.

Outside of Twitter there is great variation in where research in different departments gets most of attention from.

For instance, while policy documents are an important source of attention for the Department of Economics, publications at the Departments of Marketing, and Leadership and Organizational Behaviour attract more attention from the mainstream news media.

For each of the departments the bars below show the percentage of mentions for Twitter, news outlets, policy documents and other sources (Wikipedia, blogs, open peer reviews, Facebook and Reddit). Please note the Y-axis starts at 80 percent because over 80 percent of attention consists of twitter mentions.

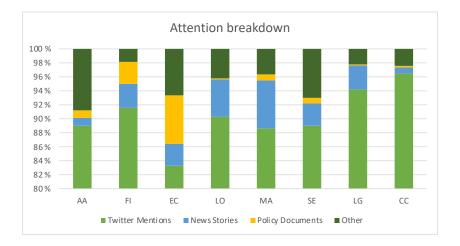


Figure 6 - Breakdown of attention types by department.

PUBLICATIONS BY SOURCE OF ATTENTION

Policy Documents

Our publications have been cited in over 149 different policy documents. Over 60% of the cited papers are published in top journals. Below we list the policy sources where our publications have received 5 or more mentions.

- 1. Norwegian Government (14)
- 2. Analysis & Policy Observatory (APO) (12)
- 3. The Research Council of Norway (10)
- 4. The Publications Office of the European Union (10)
- 5. World Bank (7)
- 6. Nations Food and Agriculture Organization of the United (6)
- 7. World Health Organization (5)

Examples of research topics that typically create attention by policy authorities are macroeconomics, oil markets, strategic management, family economics, governance and gender, and employee well-being. Below we list the top three BI publications according to the number of policy documents in which they have been cited.

Top 3 overall publications cited in policy documents

- Fjeldstad, Ø. D., Snow, C. C., Miles, R. E., & Lettl, C. (2012). The architecture of collaboration. Strategic management journal, 33(6), 734-750. Cited in 4 policy documents from the UK Government, the Institute of Network Cultures, and the Analysis and Policy Observatory
- 2. Aastveit, K. A., Bjørnland, H. C., & Thorsrud, L. A. (2015). What drives oil prices? Emerging versus developed economies. *Journal of Applied Econometrics*, *30(7)*, 1013-1028. *Cited in 2 policy documents from the World Bank.*
- 3. Andersen, J. J., Johannesen, N., Lassen, D. D., & Paltseva, E. (2017). Petro rents, political institutions, and hidden wealth: Evidence from offshore bank accounts. *Journal of the European Economic Association*. *Cited in 2 policy documents by the Inter-American Development Bank and the United Nations Economic and Social Commission for Western Asia.*

News Stories

While mentions in policy documents are dominated by the Department of Economics, and The Department of Finance, The Department of Leadership and Organizational Behaviour, and the Department of Marketing are responsible for most mentions in mainstream news sources. Out of 342 news mentions half are from these two departments.

Around 35% of mentions in the news media are published in top journals. This is somewhat lower than it is for policy documents, where the 60% of mentions are in top journals.

Almost half the news stories come from US sources. Other countries represented are the UK (10%), Australia (8%), and Norway (7%). Publications have also been mentioned in news articles originating from countries like India, New Zealand, Germany, and Canada.

Top 5 News Sources³

- 1. Forskning.no (27)
- 2. "Yahoo! News" (18)
- 3. The Conversation (14)
- 4. "MSN (10")
- 5. Phys.org (9)

Examples of topics that typically create attention in news are political economy, leadership behavior and job satisfaction, corporate governance, wealth inequality, product and brand management, and the socio-psychological processes. Below we have listed the top three publications that have received the highest number of citations in news stories.

³ Sources marked with an asterisk are so-called "news aggregators" and republish items from various sources such as Reuters, The Independent, The Evening Standard, The Telegraph, Business Insider, MarketWatch, Maxim, Men's Health, and others.

Top 3 publications with the highest number of mentions in News Outlets

- 1. Randers, J., & Goluke, U. (2020). An earth system model shows self-sustained melting of permafrost even if all man-made GHG emissions stop in 2020. *Scientific reports, 10(1),* 1-9. 90 news mentions in 76 news outlets
- Pathak, A., Velasco, C., & Calvert, G. A. (2019). Implicit and explicit identification of counterfeit brand logos based on logotype transposition. *Journal of Product & Brand Management*. 18 news mentions in 18 news outlets
- Reed II, A., Forehand, M. R., Puntoni, S., & Warlop, L. (2012). Identity-based consumer behavior. International Journal of Research in Marketing, 29(4), 310-321. 16 news mentions in 16 news outlets

Social Media

Mentions on social media have increased greatly, and in 2020 there were more than five times as many mentions as in 2012. Mentions from social media on average account for more than 80% of all mentions. As for the news stories, we find that around 35% of mentions on social media are coming from articles published in top journals.

The Department of Communication and Culture has the highest share of mentions on social media, at around a third. This is perhaps not surprising considering the department's strong research focus on social media and the internet.

Almost all social media mentions come from Twitter (over 97%), other sources are Facebook and Reddit.

Figure 7 shows the geographical spread of mentions coming from social media. BI's publications have been tweeted by over 6900 unique tweeters in 124 different countries. Most mentions come from Norway and English-speaking countries. The top three countries are the US (13%), the UK (10%) and Norway (8%). Please note that 42 % of Twitter users do not specify their geographical location.

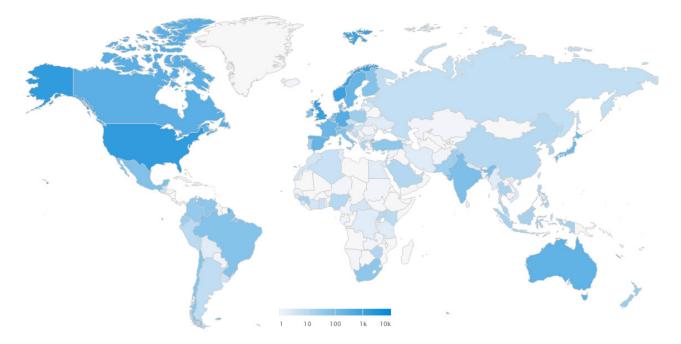


Figure 7 Mentions on Twitter by country.

Examples of topics that have received highest attention in social media are elections, ethnicity, humanitarian logistics, portfolio choice, health care systems, research methodology, and organizational design. Below we list the top three BI publications according to the number of tweets they have received.

Top 3 publications – Twitter

- Snyder, H. (2019). Literature review as a research methodology: An overview and guidelines. Journal of Business Research, 104, 333-339.
 196 Twitter mentions by 187 tweeters
- Midttun, A., Gjølberg, M., Kourula, A., Sweet, S., & Vallentin, S. (2015). Public policies for corporate social responsibility in four Nordic countries: Harmony of goals and conflict of means. *Business & Society, 54(4)*, 464-500. 146 Twitter mentions by 14 tweeters
- Fjeldstad, Ø. D., Johnson, J. K., Margolis, P. A., Seid, M., Höglund, P., & Batalden, P. B. (2020). Networked health care: Rethinking value creation in learning health care systems (Vol. 4, No. 2, p. e10212). 138 Twitter mentions by 105 tweeters

To sum up. Above we have seen that there is a great variation in the research areas that have received attention by different media sources and political authorities. However, there is also a great overlap of topics that have been mentioned in all three sources. The examples of such topics are

- Climate change and green growth
- Consumer behavior
- Artificial intelligence
- Supply chains
- Corporate Governance

FEATURED TOPICS

COVID-19

The Covid pandemic illustrates the importance of research for society. The research conducted by our faculty has contributed to the knowledge policy makers need to make it through the crisis.

The researchers at BI have communicated their analysis through academic publications and working papers, reports and notes, podcasts and webinars, newspaper articles, and participation in policy debates.

Here are some examples of the research and analysis undertaken at BI Norwegian Business School in 2020. We distinguish between the three main ranges of social sciences: Economics and Finance, Business and Management, and Government, Law and Society.

For full details, see the following webpage: https://www.bi.edu/research/covid-19-resources-at-bi-norwegian-business-school/.

Business and Management

In 2020 there have been six academic publications relevant to COVID-19 in the area of Business and Management. Two of the articles were published in top journals and received 264 and 111 citations respectively.

Both studies are on the effects of COVID-19 on business and research. In one of these studies the authors have invited scholars from different areas of business and management to write brief papers on various aspects of the effects of the COVID-19 pandemic. This article has been cited in one policy document by the European Union and received attention from four different news outlets. The second article presents the findings of a bibliometric study of COVID-19 literature in the business and management domain to identify current areas of research and propose a way forward.

In addition, several smaller analyses have been conducted, where one of the questions asked by researchers has been "Can countries effectively help one another other by reallocating surplus inventories across borders?"

BI heads two externally funded research projects on health supply chains related to Corona:

Measures for Improved Availability of Medicines and Vaccines (MIA) and the COVID-19 Project Supply Chain Research Group. For details please refer to the chapter on the Department of Accounting and Operations Management.

Publications:

Donthu, N., & Gustafsson, A. (2020). Effects of COVID-19 on business and research. Journal of Business Research.

Verma, S., & Gustafsson, A. (2020). Investigating the emerging COVID-19 research trends in the field of business and management: A bibliometric analysis approach. Journal of Business Research, 118, 253-261.

Working paper:

Flattering curves: Leveraging the shapes of a pandemic, Van Wassenhove, Luk N. & Van Oorschot, Kim.

Economics and Finance

During the COVID-19 pandemic many large-scale economic policies have been undertaken all around the world, including Norway. The independent advice from economists has therefore been especially valuable during this period.

Since the start of pandemic BI researchers have published five working papers, where two of these have already been published in academic journals.

These contributions have been both theoretical, such as an extension of widely used epidemic models widely used among the economists, as well as empirical through the analysis of behavioral changes and policy effects during the Covid-19 pandemic.

BI's faculty has participated in writing several reports on behalf of the Ministry of Finance, where the main goal has been to analyze the impact of economic measures and restrictions on the Norwegian economy.

BI has started one externally funded research project related to Corona, economic policies and structural change: "The Corona-crisis, structural change, and macroeconomic policy". For details please refer to the chapter on the Department of Economics.

Publications:

Garibaldi, P., Moen, E. R., & Pissarides, C. A. (2020). Modelling contacts and transitions in the SIR epidemics model. Covid Economics, 5(16.04).

Working Paper:

Kallåk Anundsen, A., Karlsen Kivedal, B., Røed Larsen, E., & Thorsrud, L. A. (2020). Behavioral changes and policy effects during Covid-19 (No. 07/2020). Centre for Applied Macro-and Petroleum economics (CAMP), BI Norwegian Business School.

Reports:

Covid-19 – Samfunnsøkonomisk vurdering av smitteverntiltak – andre rapport , Expert group headed by Steinar Holden (with Hilde C. Bjørnland (BI) as one of participants)

Government, Law and Society

Six reports that have addressed different issues related to the effects of the pandemic on the cultural sector and music industry. In addition, researchers at BI have published an article that analyze implications for data privacy during the Covid-19 pandemic.

Publications:

Newlands, G., Lutz, C., Tamò-Larrieux, A., Villaronga, E. F., Harasgama, R., & Scheitlin, G. (2020). Innovation under pressure: implications for data privacy during the Covid-19 pandemic. Big Data & Society, 7(2), 2053951720976680.

Reports:

Anne-Britt Gran (BI), Leo Grünfeld (Menon Economics), Nina Bruvik Westberg, (Menon Economics) have authored several reports, such as:

- Et halvt år med koronakrise i kultursektoren erfaringer og fremtidsutsikter
- Koronakrisens virkninger på kultursektoren: resultater fra en spørreundersøkelse
- Krise og produktivitet i musikkbransjen koronapandemien 2020

<u>SUSTAINABILITY</u>

Since 2018, BI has published reports on research carried out by our researchers which has relevance to the United Nations Sustainable Development Goals (SDG). By delivering high-quality research in these fields, BI can help to shape policy and debate, and be an important international player in the development of academic knowledge relevant to these goals.

In this section, we highlight some of the key findings from the two last reports (2018 and 2019) and give a brief overview over sustainability relevant research at BI for the period from 2017 to 2019.

During this period, research at BI made a clear contribution to the SDGs. In particular:

- More than 20% of all publications at BI was relevant to at least one SDG.
- More than 30 % of BI faculty published on topics related to sustainability.
- All eight departments at BI contributed with publications relevant to the SDGs.
- Around 75% of the publications relevant to the SDGs are journal articles, over 30% of these are in top journals.
- BI researchers have publications relevant to all seventeen SDGs.

The top three SDGs BI's research is relevant to:



SDG 3 - Good health and well-being

• Research topics include childhood heart problems, radiation, mental health literacy, and education and mortality.

SDG 16 - Peace, justice and strong institutions

• Research topics include tax and accounting regulations, white-collar crime, political rents and voter information, corruption, and political coups.

SDG 17 - Partnership for the goals

• Research topics include civilizing business enterprises, ESG and Socially Responsible Investment, bank lending rates and monetary policy.

Below we highlight three publications that address each of these top three SDGs.

SDG 16 has been the most addressed goal during the period from 2017 to 2019 with 87 publications in total. One of the studies that has addressed SDG 16 is an article about oil rents, political institutions, and hidden wealth. The authors of this study suggest that around 15% of the windfall gains accruing to petroleum-producing countries with autocratic rules is diverted to secret accounts. The article has been cited in two policy documents, one by The Inter-American Development Bank and one by United Nations Economic and Social Commission for Western Asia. In addition, the study was mentioned in at least four news outlets.

• Andersen, J. J., Johannesen, N., Lassen, D. D., & Paltseva, E. (2017). Petro rents, political institutions, and hidden wealth: Evidence from offshore bank accounts. *Journal of the European Economic Association*.

During the period from 2017 to 2019, 44 BI publications have addressed SDG 3. One of the studies that have contributed to this goal, is a paper about emergent coordination and situated learning in medical hybrid operating rooms. The authors illustrate how staff with different expertise must coordinate their practice and learn how to safely use the technology. This paper has attracted attention in social media and has been referred to on Twitter, Facebook and Redditor.

 Lindberg, K., Mørk, B. E., & Walter, L. (2019). Emergent coordination and situated learning in a Hybrid OR: The mixed blessing of using radiation. Social Science & Medicine, 228, 232–239.

SDG 17 is the third goal with the highest number of contributions. In total during these three years there have been 23 publications addressing this SDG. One of these studies is a paper that shows that changing demographics may partially explain slower economic growth, falling interest rates and falling productivity growth, findings that are important for fiscal sustainability. This study has been referred to in a policy document written by Deutsche Bundesbank.

• Cooley, Τ., & Henriksen, E. (2018). The demographic deficit. Journal of Monetary Economics, 93, 45-62.

3. Academic and Societal Impact by Department

In addition to citation data and Altmetrics, this section relies on information stored by faculty in Sedona, self-reporting from each department and additional databases such from the Research Council of Norway. Self-reported information has been verified.

Department of Accounting and Operational Management

The department of accounting and operational management has a mix of Norwegian and international faculty, publishes in top accounting journals, runs an active seminar series and organizes the Annual Scandinavian Accounting Research Conference. Ingunn Myrtveit is Head of Department.

Publications at this department are divided into two disciplines: accounting and auditing, and operational management. Researchers from both disciplines publish in top journals. Main research themes include financial reporting, audit quality and audit prices, agency conflicts, production planning, supply chains and networks, ownership structure and firm performance, and electricity markets and market power.

The department heads three externally funded research projects.

ONGOING EXTERNALLY FUNDED RESEARCH PROJECTS

The Coronavirus Supply Chain Task Force is headed by Professor Marianne Jahre. It aims to identify security of supply improvements for medical goods. The project is funded by the Research Council of Norway.

Measures for Improved Availability of Medicines and Vaccines (MIA) is headed by Professor Marianne Jahre. The project aims to design supply chains that function as intended both under normal conditions and in crises. The project is funded by the Research Council of Norway.

SUSTAIN is headed by Marianne Jahre from the Department of Accounting and Operations Management, and Caroline Dale Ditlev-Simonsen from the Department of Law and Governance. The project aims to improve the quality of education and research in the fields of supply chain management and sustainable business development in Ethiopia and Tanzania. It is funded by the Norwegian Partnership Programme for Global Academic Cooperation.

HIGHLIGHT OF ACTIVITIES WITH SIGNIFICANT SOCIETAL IMPACT

Eirill Bø's paper 'Transparency as a driver for logistical efficiency in WEEE collection and transport' (2020) led to an immediate total cost reduction across all activities for the Extented Producer Responsibility company Norsirk of around 22%, corresponding to around 15 million Norwegian kroner (nearly \$2M) per year

Erlend Kvaal chaired the technical committee of the Norwegian Accounting Standards Board between 2005 and 2017. In 2014 he was appointed by the Norwegian Government to the head the committee for an Official Norwegian Report to propose a new accounting law (NOU 2015: 10).

John Christian Langli submitted the report 'Evaluation of granting small firms an exemption from the requirement to be audited' to the Norwegian Ministry of Finance in 2015. This was cited in the Official Norwegian Report 'Aksjelovgivning for økt verdiskapning' (NOU 2016: 22) suggesting changes to the Norwegian Company Act. Between 2012 and 2016 Langli chaired the Appeals Board for Accountants and Auditors.

Stéphane Dauzére-Pérès and Atle Nordli developed a location tool vital to the Offical Norwegian Report NOU 2013: 9. Based in part on this the Government decided to reduce the number of police service locations from 340 to 225 in 2017.

ALTMETRICS

Top 3 Publications on Twitter

- Jahre, M. (2017). Humanitarian supply chain strategies a review of how actors mitigate supply chain risks. *Journal of Humanitarian Logistics and Supply Chain Management*. So far, Altmetric has seen 10 tweets from 6 users, with an upper bound of 14,988 followers
- Espen Eckbo, B., & Kisser, M. (2020). The leverage-profitability puzzle resurrected. Review of Finance. So far, Altmetric has seen 8 tweets from 3 users, with an upper bound of 6,233 followers
- Eckbo, B. E., & Kisser, M. (2021). Tradeoff theory and leverage dynamics of high-frequency debt issuers. *Review of Finance*, 25(2), 275-324.
 So far, Altmetric has seen 6 tweets from 2 users, with an upper bound of 2,793 followers

CURRENT MEMBERSHIPS OF ACADEMIC SOCIETIES, COMMITTEES, AND JOURNAL EDITORSHIPS

• Professor Erlend Kvaal is a member of the Technical Expert Group of the European Financial Reporting Advisory Group (EFRAG).

MOST CITED PUBLICATIONS

Number of citations	Year	Author(s)	Title and journal
121	2012	Kvaal, E., & Nobes, C.	IFRS policy changes and the continuation of national patterns of IFRS practice. <i>European accounting review, 21(2)</i> , 343-371.
101	2014	Sundgren, S., & Svanström, T.	Auditor-in-charge characteristics and going-concern reporting. <i>Contemporary Accounting Research, 31(2)</i> , 531-550.
75	2012	Hope, O. K., Langli, J. C., & Thomas, W. B.	Agency conflicts and auditing in private firms. <i>Accounting, Organizations and Society, 37(7),</i> 500-517.
58	2017	Brahimi, N., Absi, N., Dauzère-Pérès, S., & Nordli, A.	Single-item dynamic lot-sizing problems: An updated survey. European Journal of Operational Research, 263(3), 838-863.
43	2016	Jahre, M., Kembro, J., Rezvanian, T., Ergun, O., Håpnes, S. J., & Berling, P.	Integrating supply chains for emergencies and ongoing operations in UNHCR. <i>Journal of Operations Management,</i> 45, 57-72.
43	2013	Svanström, T.	Non-audit services and audit quality: Evidence from private firms. <i>European Accounting Review, 22(2)</i> , 337-366.
37	2013	Sundgren, S., & Svanström, T.	Audit office size, audit quality and audit pricing: evidence from small-and medium-sized enter prises. <i>Accounting and Business Research, 43</i> (1), 31-55
24	2015	Che, L., & Langli, J. C.	Governance structure and firm performance in private family firms. <i>Journal of Business Finance & Accounting, 42(9-10),</i> 1216-1250.
17	2018	Che, L., Langli, J. C., & Svanström, T.	Education, experience, and audit effort. Auditing: <i>A Journal of Practice & Theory, 37</i> (3), 91-115.
12	2018	Tangerås, T. P., & Mauritzen, J.	Real-time versus day-ahead market power in a hydro-based electricity market. <i>The Journal of Industrial Economics,</i> 66(4), 904-941.

Department of Communication and Culture

The Department of Communication and Culture had the second largest number of publications during the period 2012-2020 and had the highest number of mentions per publication during this period. Sut I Wong is Head of Department.

The research areas with most citations in the top journals are corporate governance with a focus on board research, family business, and gender diversity. Other central topics are leadership behaviour, ethical leadership, e-business, the sharing economy, and the link between human behaviour and different online platforms.

The department is home to two research centres, two competence centres, and leads six externally financed projects.

RESEARCH CENTRES

Centre for Creative Industries

The Centre promotes research on the creative industries in Norway. It functions as a bridge-builder between researchers, practitioners, and students. Anne-Britt Gran, which is head of the centre, has led the Government's advisory board for the creative industries from 2015 to 2017. During the pandemic the centre has completed several projects, mapping the effects of Covid-19 on the creative industries, whose insights have served as input for altering the governments industry measures.

Nordic Centre for Internet and Society

The Nordic Centre for Internet and Society is a globally oriented research centre, dedicated to understanding the influence of new internet technologies on working life and society. The centre's central aim, as a growing team of international researchers, is to explore the re-invention of work and working life within a digital, networked, and media-rich environment. It is funded by the Research Council of Norway and the European Research Council.

COMPETENCE CENTRES

Centre for Innovation in Education

This centre leads the field of leadership training in the education sector in Norway. Research at the centre focuses on acquiring knowledge and insight into how politicians, school owners and leaders can best contribute to the development and improvement of kindergartens and schools. Faculty from the centre has advised municipalities in Norway and Denmark in improving education and teaching in the Nordics. It is funded by the Research Council of Norway.

The Nordic Alliance for Communication and Management

The Nordic Alliance for Communication & Management (#NORA) brings together leading communication executives with researchers in communication and management fields from Norway, Finland, Sweden, and Denmark to jointly identify emerging trends and topics, develop new research-based knowledge, and shape the debate in the Nordic countries.

ONGOING EXTERNALLY FUNDED RESEARCH PROJECTS

Algorithmic Accountability: Designing Governance for Responsible Digital Transformation is led by Christian Fieseler. The project is creating a framework for organizations, regulators and communities to take concrete steps towards accountable decision-making processes for algorithms.

Artsformation aims to understand the ways Arts can reinforce the social, cultural, economic, and political benefits of digital transformation. It is funded by European Union's Horizon 2020 and is coordinated by Christian Fieseler.

Development of a digital learning tool targeting pupils reading competence and comprehension develops lessons to improve pupil reading skills. It is headed by Robin Ulriksen and funded through the Regional Research Funds.

Future Ways of Working in the Digital Economy investigates the function, status, and meaning creation of individual workers in the future digital economy. The project is funded by the Research Council of Norway with Christian Fieseler as project manager.

Intervention in Danish primary and lower secondary school the project was initiated by the City of Copenhagen, with and funded primarily by A. P. Møller. It is headed by Johan From and aims to improve school management in Denmark.

The MICC - Media Innovation through the Corona Crisis – investigates how news media can use and improve its ability to innovate. Project manager is Mona Solvoll. It is funded by the Research Council of Norway.

HIGHLIGHT OF ACTIVITIES WITH SIGNIFICANT SOCIETAL IMPACT

Alexander Buhmann is member of the expert panel on artificial intelligence at the Royal Chartered Institute of Public Relations (CIPR).

Anne-Britt Gran is member of Arena Oslo's management group: "Arena Oslo – the Smart Event City". She is also member of the International Advisory Council in The Creative Industries Federation, UK.

Benedicte Brøgger i is board member of Chijnaya Foundation (California and Peru) which supports economic and social development in the Andes. Brøgger is also board member of Norsk Pensjon AS, which builds digital infrastructure to enhance consumers' financial literacy and economic democracy.

Ide Kathrine Birkeland sits on the programme board for the evaluation of the implementation of the framework plan (The Norwegian Directorate for Education and Training) and has been adviser to the Danish Ministry of Finance in their work in developing leadership evaluations in the public sector.

Sut I Wong is Advisory Board Member and Board of directors: Someday Business AS, Propl AS.

ALTMETRICS

Top 3 Publications in News

- Kopperud, K. H., Martinsen, Ø., & Humborstad, S. I. W. (2014). Engaging leaders in the eyes of the beholder: On the relationship between transformational leadership, work engagement, service climate, and self-other agreement. *Journal of Leadership & Organizational Studies, 21(1),* 29-42.
 <u>3 news mentions</u>
- Van Dick, R., Lemoine, J. E., Steffens, N. K., Kerschreiter, R., Akfirat, S. A., Avanzi, L., ... & Haslam, S. A. (2018). Identity leadership going global: Validation of the Identity Leadership Inventory across 20 countries. *Journal of Occupational and Organizational Psychology*, 91(4), 697-728 2 news mentions
- Reiche, B. S., Cardona, P., Lee, Y. T., Canela, M. Á., Akinnukawe, E., Briscoe, J. P., ... & Wilkinson, H. (2014). Why do managers engage in trustworthy behavior? A multilevel cross-cultural study in 18 countries. *Personnel Psychology*, 67(1), 61-98.
 2 news mentions

Top 3 Publications in Policy Documents

- Iannotta, M., Gatti, M., & Huse, M. (2016). Institutional complementarities and gender diversity on boards: A configurational approach. Corporate Governance: An International Review, 24(4), 406-427.
 1 Policy document from the Dutch government
- Lutz, C. (2019). Digital inequalities in the age of artificial intelligence and big data. Human Behavior and Emerging Technologies, 1(2), 141-148.
 1 Policy document from the World Health Organisation
- Humborstad, S. I. W. (2014). When industrial democracy and empowerment go hand-in-hand: A co-power approach. Economic and Industrial Democracy, 35(3), 391-411.
 1 Policy document from the International Labour Organisation

Top 3 Publications on Twitter

- Felzmann, H., Villaronga, E. F., Lutz, C., & Tamò-Larrieux, A. (2019). Transparency you can trust: Transparency requirements for artificial intelligence between legal norms and contextual concerns. *Big Data & Society, 6(1)*. So far, Altmetric has seen 112 tweets from 59 users, with an upper bound of 310,308 followers
- Van Dick, R., Lemoine, J. E., Steffens, N. K., Kerschreiter, R., Akfirat, S. A., Avanzi, L., & Haslam, S. A. (2018). Identity leadership going global: Validation of the Identity Leadership Inventory across 20 countries. *Journal of Occupational and Organizational Psychology*, *91*(4), 697-728. So far, Altmetric has seen 68 tweets from 58 users, with an upper bound of 415,252 followers
- Lutz, C. (2019). Digital inequalities in the age of artificial intelligence and big data. Human Behavior and Emerging Technologies, 1(2), 141-148. So far, Altmetric has seen 67 tweets from 50 users, with an upper bound of 338,691 followers

CURRENT MEMBERSHIPS OF ACADEMIC SOCIETIES, COMMITTEES, AND JOURNAL EDITORSHIPS

- Alexander Buhmann sits on the editorial board of the International Journal of Strategic Communication, and is a
 member of the Academic Advisory Board of the International Association for the Measurement and Evaluation of
 Communication (AMEC).
- Christoph Lutz sits on the editorial board of Human Behaviour and Emerging Technologies, and Human-Machine Communication.
- Ragnhild Kristine Olsen sits on the editorial board of Digital Journalism
- Sut I Wong sits on the editorial board of Human Resource Management Review.
- Suzanne Van Gils sits on the editorial board of Journal of Business Ethics

MOST CITED PUBLICATIONS

Number of citations	Year	Author(s)	Title and journal
128	2016	Bucher, E., Fieseler, C., & Lutz, C.	What's mine is yours (for a nominal fee)–Exploring the spectrum of utilitarian to altruistic motives for Internet- mediated sharing. <i>Computers in Human Behavior, 62</i> , 316-326.
100	2015	Zattoni, A., Gnan, L., & Huse, M.	Does family involvement influence firm performance? Exploring the mediating effects of board processes and tasks. <i>Journal of Management, 41(4),</i> 1214-1243.
93	2018	Lutz, C., & Newlands, G.	Consumer segmentation within the sharing economy: The case of Airbnb. <i>Journal of Business Research, 88,</i> 187-196.
78	2015	Van Gils, S., Van Quaquebeke, N., van Knippenberg, D., van Dijke, M., & De Cremer, D.	Ethical leadership and follower organizational deviance: The moderating role of follower moral attentiveness. <i>The Leadership Quarterly, 26(2),</i> 190-203.
70	2017	Seierstad, C., Warner-Søderholm,G., Torchia, M., & Huse, M.	Increasing the number of women on boards: The role of actors and processes. <i>Journal of Business Ethics, 141(2)</i> , 289-315.
53	2018	Wong, S. I., & Giessner, S. R.	The thin line between empowering and laissez-faire leader ship: An expectancy-match perspective. <i>Journal of Management, 44(2),</i> 757-783.
44	2018	Warner-Søderholm, G., Bertsch, A., Sawe, E., Lee, D., Wolfe, T., Meyer, J., & Fatilua, U. N.	Who trusts social media?. <i>Computers in human behavior, 81,</i> 303-315.
38	2015	Gnan, L., Montemerlo, D., & Huse, M.	Governance systems in family SMEs: The substitution effects between family councils and corporate governance mechanisms. <i>Journal of Small Business Management, 53(2)</i> , 355-381.
37	2014	Hoffmann, C. P., Lutz, C., & Meckel, M.	Digital natives or digital immigrants? The impact of user characteristics on online trust. Journal of Management Information Systems, 31(3), 138-171.
37	2016	lannotta, M., Gatti, M., & Huse, M.	Institutional complementarities and gender diversity on boards: A configurational approach. <i>Corporate Governance: An International Review, 24(4),</i> 406-427.

Department of Data Science and Analytics

In line with BI's strategic plan towards 2025 with focus on advancing international research, developing attractive student programs, and contributing to innovation, the Provost for Research and Academic Resources, Professor Hilde C. Bjørnland established a working group on organizing a new department of data science at BI in 2019.

The new department of Data Science and Analytics was founded in 2020 and the recruitment of faculty started in the second half of that year. The department is headed by Tommy Sveen until October 1, after which Francesco Ravazzolo will take over as Head of Department.

In June 2020 BI Norwegian Business school and Simula Research Laboratory signed a memorandum of understanding to strengthen their expertise on data science through collaboration related to research and the establishment of the new department and a new research centre in data science at BI called Simula@BI.

The vision of the relationship is to combine statistics and data science, both in terms of applied research with special emphasis on business-research and big data sets, and methodological development.

In August 2021, the department of Data Science and Analytics had 6 assistant professors (tenure-track); four in data science and two in statistics. One adjunct position in data science and one head of research/associate professor connected to the associated research centre Simula@Bl.

RESEARCH CENTRES

Simula@BI

Simula@BI is a research centre that focuses on applied and fundamental research in data science, with an emphasis on applications at the intersection between business and data science. The centre is a collaboration between Simula and BI, and aims to facilitate collaboration in the extended Norwegian data science community.

In the spring of 2021 Simula@BI hosted 11 digital research seminars, with 7 internal and 4 external speakers. The research seminars consisted of talks on fundamental and applied research within statistics, machine learning and artificial intelligence.

Department of Economics

Around 60% of publications at the department of Economics are published in top journals. Some of the research areas that appear in the most cited publications are macroeconomics, political economy, family economics, and computational statistics. Topics such as oil economics, natural resource curse, monetary policy, electoral politics, efficiency in public service and nowcasting in real time have been in focus. Tommy Sveen is Head of Department.

RESEARCH CENTRES

Centre for Applied Macroeconomics and Commodity Prices (CAMP)

CAMP receives financing from Equinor, the Research Council of Norway (RCN) and the Norwegian Finance Market Fund. The centre's objective is to conduct original and objective research to improve the understanding of macroeconomic issues in resources rich economies, and act as a forum for discussion of policy issues between academia, the government, and the private sector.

CAMP and the media analytics company Retriever regularly publish the indicator Financial News Index (FNI). FNI measures what news media write about the economy and uses the data to predict future economic development.

Centre for Experimental Studies and Research (CESAR)

The centre's core objectives are to publish research findings in leading international academic journals; to provide research-based policy advice to private business and public entities; and to serve as an active network for researchers and decision makers. It is funded by the Research Council of Norway.

COMPETENCE CENTRES

Centre for Applied and Theoretical Econometrics (CATE)

The aim of CATE is to further applied and theoretical econometric research, and to promote critical thinking about the usage of econometric methods in society.

Centre for Monetary Economics (CME)

CME is a professional network for economic researchers and practitioners. They write the annual Norges Bank Watch report for the Ministry of Finance, which they present in an annual seminar open to the public.

Centre for Research in Economics and Management (CREAM)

The objective of CREAM is to provide high quality research and analysis in the field of Industrial Economics and Labor Economics with applications to Management.

ONGOING EXTERNALLY FUNDED RESEARCH PROJECTS

Bureaucrats and group identity in local politics is headed by Rune J. Sørensen and investigates government employees' influence on local government politics and policy outcomes. It is funded by the Research Council of Norway.

Causes of bargaining failure is headed by Professor Leif Helland and uses experiments to investigate why bargaining breaks down. It is funded by the Research Council of Norway.

The corona-crisis, structural change and macroeconomic policy is headed by Professor Hilde C. Bjørnland and investigates how economic shocks affect economic structures, and ways to set up an early warning system for such events. It is funded by the Research Council of Norway.

Dynamics of political selection is headed by Professor Jon Fiva and investigates how political parties recruit politicians, and whether all citizens have equal opportunities to rise in political hierarchies. It is funded by the Research Council of Norway.

Frictions in the housing market is headed by Plamen Nenov and investigates whether people buy or sell first when they move to a new house. It is funded by the Finance Market Fund.

Spatial inference on oil and economic development is headed by Associate Professor Jørgen Juel Andersen and investigates the spatial relationship between oil and economic development. It is funded by the Research Council of Norway.

Time-varying disaster risk asset prices and international business cycles is headed by Alfonso Irarrazabal and investigates the connection between macro economics and finance. It is funded by the Finance Market Fund.

HIGHLIGHT OF ACTIVITIES WITH SIGNIFICANT SOCIETAL IMPACT

Espen R. Moen headed the government appointed expert group evaluating the current real estate brokerage law and proposing improvements to it. He was a non-voting member of the board of Norges Bank 2011-2016.

Hilde C. Bjørnland was a member of the government appointed expert group assessing economic consequences of COVID-19, and a member of an independent expert group assessing how to transition the Norwegian economy to meet the goals of the Paris climate accord. She is a member of the corporate assembly of Norsk Hydro ASA, and she writes regularly in the Norwegian business daily Dagens Næringsliv.

Ingrid Hjort was interim leader of the cost-benefit analysis unit in the Norwegian Institute of Public Health and she has been a member of an expert group examining the consequences of using or not using AstraZeneca and Janssen COV-ID-19 vaccines..

Plamen Nenov is on the Economic Council of the Prime Minister of Bulgaria.

Rune J. Sørensen heads a project evaluating school management in Denmark.

Gisle J. Natvik writes regularly in the Norwegian business daily Dagens Næringsliv.

ALTMETRICS

Top 3 Publications in News

- Cox, G. W., Fiva, J. H., & Smith, D. M. (2019). Parties, legislators, and the origins of proportional representation. *Comparative Political Studies, 52(1),* 102-133. *9 news mentions.*
- Andersen, J. J., Johannesen, N., Lassen, D. D., & Paltseva, E. (2017). Petro rents, political institutions, and hidden wealth: Evidence from offshore bank accounts. *Journal of the European Economic Association*. *4 news mentions*.
- Daniele, G., & Geys, B. (2015). Organised crime, institutions and political quality: Empirical evidence from italian municipalities. *The Economic Journal*, 125(586), F233-F255 2 news mentions.

Top 3 Publications in policy documents

- Aastveit, K. A., Bjørnland, H. C., & Thorsrud, L. A. (2015). What drives oil prices? Emerging versus developed economies. *Journal of Applied Econometrics*, 30(7), 1013-1028. *Has been cited in two policy documents by World Bank*
- 2 Aastveit, Knut Are, Gisle James Natvik, and Sergio Sola. «Economic uncertainty and the influence of monetary policy.» Journal of International Money and Finance 76 (2017): 50-67. Have been cited in two policy documents published by the European Union
- Cools, S., Fiva, J. H., & Kirkebøen, L. J. (2015). Causal effects of paternity leave on children and parents. The Scandinavian Journal of Economics, 117(3), 801-828.
 Has been cited in one policy document by Finnish Prime Minister's Office, and one by Norwegian Government

Top 3 Publications on Twitter

- Sørensen, R. J. (2019). The impact of state television on voter turnout. British Journal of Political Science, 49(1), 257-278. So far, Altmetric has seen 43 tweets from 33 users, with an upper bound of 129,192 followers
- Fiva, J. H., & Folke, O. (2016). Mechanical and psychological effects of electoral reform. British Journal of Political Science, 46(2), 265-279.
 So far, Altmetric has seen 40 tweets from 27 users, with an upper bound of 131,104 followers
- Berge, L. I. O., Bjorvatn, K., Galle, S., Miguel, E., Posner, D. N., Tungodden, B., & Zhang, K. (2020). Ethnically biased? Experimental evidence from Kenya. *Journal of the European Economic Association, 18(1),* 134-164. So far, Altmetric has seen 67 tweets from 50 users, with an upper bound of 338,691 followers

CURRENT MEMBERSHIPS OF ACADEMIC SOCIETIES, COMMITTEES AND JOURNAL EDITORSHIPS

- Espen Moen is Associated Editor, Scandinavian Journal of Economics.
- Genaro Sucarrat organizes the annual economic forecasting award in Norway.
- Hilde C. Bjørnland is elected President of the Society for Nonlinear Dynamic and Econometrics, and board member of the Abel Prize in mathematics.
- Jørgen Juel Andersen is associate editor of the Finnish Economics Association.
- Lars C. Bruno is trustee for the Economic Business History Society.
- Vasilis Sarafidis is associate editor of the journal empirical economics and member of the scientific committee for the international Panel Data Conference.

Number of Title and journal citations Year Author(s) 2016 Cancela, J., & Geys, B. Explaining voter turnout: A meta-analysis of national and 136 subnational elections. Electoral Studies, 42, 264-275 70 2014 EGARCH models with fat tails, skewness and leverage. Harvey, A., & Sucarrat, G. Computational Statistics & Data Analysis, 76, 320-338. 70 2017 Aastveit, K. A., Natvik, G. J., & Sola, S. Economic uncertainty and the influence of monetary policy. Journal of International Money and Finance, 76, 50-67. 69 2015 Aastveit, K. A., Bjørnland, H. C., What drives oil prices? Emerging versus developed economies. & Thorsrud, L. A. Journal of Applied Econometrics, 30(7), 1013-1028. 2017 Beyond LATE with a discrete instrument.» Journal of Political 58 Brinch, Christian N., Magne Mogstad, and Matthew Wiswall. Economy 125.4 (2017): 985-1039. 2015 57 Cools, S., Fiva, J. H., Causal effects of paternity leave on children and parents. & Kirkebøen, L. J. The Scandinavian Journal of Economics, 117(3), 801-828. 52 2013 Andersen, J. J., & Aslaksen, S. Oil and political survival. Journal of Development Economics, 100(1), 89-106. 49 2015 Daniele, G., & Geys, B. Organised crime, institutions and political quality: Empirical evidence from italian municipalities. The Economic Journal, 125(586), F233-F255. 48 2014 Aastveit, K. A., Gerdrup, K. R., Nowcasting GDP in real time: A density combination Jore, A. S., & Thorsrud, L. A. approach. Journal of Business & Economic Statistics, 32(1), 48-68. 46 2013 De Witte, K., & Geys, B. Citizen coproduction and efficient public good provision: Theory and evidence from local public libraries. European Journal of Operational Research, 224(3), 592-602.

MOST CITED PUBLICATIONS

Department of Finance

The department of finance is ranked 10th in Europe and 2nd in the Nordic countries in the University of Texas Dallas rankings for top finance publications 2013-2017. BI hosted the European Finance Association (EFA) annual meeting in 1996 and 2016. The department runs a weekly research seminar series with academics from global top schools. Richard Priestley is Head of Department.

Over 80 percent of all publications at the department of Finance are published in top journals. Some of the research areas that appears in the most cited publications are: stock returns and portfolio choice, corporate governance and gender, and exchange rates.

The department is home to two research centres and heads four research projects.

RESEARCH CENTRES

Centre for Asset Pricing (CAPR)

CAPR is funded by the Research Council of Norway, the European Research Council, and the Finance Market Fund. The centre's mandate encompasses broad themes in empirical and theoretical asset pricing, investor behavior and portfolio choice. It supports faculty research groups, industry seminars, workshops and conferences. Including the annual BI SHOF conference on asset pricing and econometrics, which is a collaboration between BI and the Swedish House of Finance.

Centre for Corporate Governance Research (CCGR)

CCGR receives funding from a business consortium consisting of the companies Sundt, Havfonn, Kahoot, Selvaag Gruppen, Kistefos, Canica and Wilhelmsen. It also receives funding from the Research Council of Norway and the Finance Market Fund.

The centre focuses on how ownership and governance of firms impact value-creation and the welfare of firms' stakeholders. Its members aim to produce high-quality research that offers evidence-based insights and guidance related to the theory and practice of corporate governance.

ONGOING EXTERNALLY FUNDED RESEARCH PROJECTS

Individual Investors and Asset Prices is headed by Samuli Knüpfer and investigates the relation between prices on financial assets and individual investment decisions. It is funded by the Finance Market Fund.

Inequality in 3D – measurement and implications for macroeconomic theory is headed by Andreas Fagereng and aims to contribute to a better understanding of economic inequality along the three dimensions of consumption, income and wealth, and macroeconomic implications. It receives funding from the European Research Council.

The link between household and firm finance: family firms, family networks, and family resource constraints is headed by Janis Berzins and investigates how a sudden liquidity shock in the personal economy of company owners affect the company. It is funded by the Finance Market Fund.

Money markets after the global financial crisis: functioning and regulation is headed by Dagfinn Rime and investigates how the global financial crises affected interest rates, short term financing and the role of money markets for monetary policy. It is funded by the Finance Market Fund.

HIGHLIGHT OF ACTIVITIES WITH SIGNIFICANT SOCIETAL IMPACT

Charlotte Østergaard is a member of the board for the Norwegian Finance Market Fund.

Espen Henriksen was a member of the Norwegian Treasury's committee (Mork committee) that examined the allocation of wealth between equity and bonds.

Richard Priestley was on the Norges Bank Committee to assess the performance of the Oil fund.

ALTMETRICS

Top 3 Publications in News

- Fagereng, A., Guiso, L., Malacrino, D., & Pistaferri, L. (2020). Heterogeneity and persistence in returns to wealth. *Econometrica*, 88(1), 115-170.. 8 news mentions
- Bøhren, Ø., & Staubo, S. (2014). Does mandatory gender balance work? Changing organizational form to avoid board upheaval. *Journal of Corporate Finance, 28,* 152-168.
 1 news mention
- Norli, Ø., Ostergaard, C., & Schindele, I. (2015). Liquidity and shareholder activism. The Review of Financial Studies, 28(2), 486-520. 1 news mention

Top 3 Publications in policy Documents

- Bøhren, Ø., & Staubo, S. (2014). Does mandatory gender balance work? Changing organizational form to avoid board upheaval. *Journal of Corporate Finance, 28*, 152-168 Has been cited in one policy document by Scottish Government
- Cheung, Y. W., & Rime, D. (2014). The offshore renminbi exchange rate: Microstructure and links to the onshore market. *Journal of International Money and Finance, 49*, 170-189. Has been cited in one policy document by Deutsche Bundesbank
- Ehling, P., Gallmeyer, M., Heyerdahl-Larsen, C., & Illeditsch, P. (2018). Disagreement about inflation and the yield curve. Journal of Financial Economics, 127(3), 459-484.
 Has been cited in one policy document by Deutsche Bundesbank

Top 3 Publications on Twitter

- Fagereng, A., Guiso, L., Malacrino, D., & Pistaferri, L. (2020). Heterogeneity and persistence in returns to wealth. *Econometrica*, 88(1), 115-170 So far, Altmetric has seen 120 tweets from 117 users, with an upper bound of 1,289,091 followers
- Adams, R., Keloharju, M., & Knüpfer, S. (2018). Are CEOs born leaders? Lessons from traits of a million individuals. Journal of Financial Economics, 130(2), 392-408.
 So far, Altmetric has seen 86 tweets from 62 users, with an upper bound of 517,560 followers
- Grinblatt, M., Ikäheimo, S., Keloharju, M., & Knüpfer, S. (2016). IQ and mutual fund choice. Management Science, 62(4), 924-944.
 So far, Altmetric has seen 49 tweets from 49 users, with an upper bound of 172,313 followers

CURRENT MEMBERSHIPS OF ACADEMIC SOCIETIES, COMMITTEES AND JOURNAL EDITORSHIPS

- Janis Berzins is Associate Editor of the Baltic Journal of Economics.
- Bruno Gerard is on the NFI Best Master Thesis in Finance Evaluation Committee and the Luxembourg Science Foundation Core Grant Panel, 2021.
- Bogdan Stecescu is Editorial advisor at the Review of Finance.
- Dagfinn Rime: is Head of the scientific committee for the central bank workshop on microstructure of financial markets, chair the EFA NBIM-session since 2016 (6 times), and has been on the Scientific committee for the Annual Conference on International Finance since 2018.
- Charlotte Østegaard is on the Steering Committee for the Nordic Initiative for Corporate Economics (NICE), and the Program Committee, for the EGCI-Oxford University program Corporations and Covid-19.

MOST CITED PUBLICATIONS

Number of citations	Year	Author(s)	Title and journal
184	2012	Garcia, D., & Norli, Ø.	Geographic dispersion and stock returns. <i>Journal of Financial Economics, 106(3), 547-565</i> .
82	2014	Bøhren, Ø., & Staubo, S.	Does mandatory gender balance work? Changing organiza tional form to avoid board upheaval. <i>Journal of Corporate Finance, 28</i> , 152-168.
72	2012	Chen, L., Da, Z., & Priestley, R.	Dividend smoothing and predictability. <i>Management science, 58(10),</i> 1834-1853.
53	2015	Norli, Ø., Ostergaard, C., & Schindele, I.	Liquidity and shareholder activism. <i>The Review of Financial Studies, 28(2),</i> 486-520.
49	2016	Bøhren, Ø., & Staubo, S.	Mandatory gender balance and board independence. European Financial Management, 22(1), 3-30.
44	2017	Knüpfer, S., Rantapuska, E., & Sarvimäki, M.	Formative experiences and portfolio choice: Evidence from the Finnish great depression. <i>The Journal of Finance, 72(1),</i> 133-166.
43	2016	Grinblatt, M., Ikäheimo, S., Keloharju, M., & Knüpfer, S.	IQ and mutual fund choice. <i>Management Science, 62(4),</i> 924-944.
40	2015	Fratzscher, M., Rime, D., Sarno, L., & Zinna, G.	The scapegoat theory of exchange rates: the first tests. Journal of Monetary Economics, 70, 1-21.
37	2013	Cooper, I., & Priestley, R.	The world business cycle and expected returns. <i>Review of Finance, 17(3)</i> , 1029-1064.
33	2014	Cheung, Y. W., & Rime, D.	The offshore renminbi exchange rate: Microstructure and links to the onshore market. <i>Journal of International Money and Finance, 49,</i> 170-189.

Department of Law and Governance

The Department of Law and Governance has one of Norway's largest academic communities within business law as well as a strong team of experts in corporate social responsibility, banking and insurance, political economy and climate strategy. Morten Kinander is Head of Department.

The most cited articles at the department cover topics such as climate change, public policy and sustainable development goals. Including green growth, energy policy and corporate social responsibility.

The department hosts two competence centres and heads two externally funded projects.

COMPETENCE CENTRES

Centre for Business History

The Centre aims to improve the understanding of the interaction between companies and organizations in their institutional environment as well as the dynamics of economic development. The research receives funding from companies and other organizations.

Centre for Sustainability and Energy

The goal of the centre is to promote sustainable development through research, teaching and collaboration with academic institutions, the business community, governmental bodies and NGOs. The centre receives funding from the Research Council of Norway.

Centre for Financial Regulation

Centre for Financial Regulation aims to develop and disseminate scientific knowledge related to the regulation of financial and capital markets. It collaborates with relevant private and public actors.

ONGOING EXTERNALLY FUNDED RESEARCH PROJECTS

3AI: The Triple Partnership for Responsible AI is led by Samson Yoseph Esayas. The project investigates how AI can be made fair, accountable, and transparent. It is funded by the Research Council of Norway. BI Centre for Internet and Society is a key partner.

SUSTAIN is headed by Caroline Dale Ditlev-Simonsen from the Department of Law and Governance, and Marianne Jahre from the Department of Accounting and Operations Management. The project aims to improve the quality of education and research in the fields of supply chain management and sustainable business development in Ethiopia and Tanzania. It is funded by the Norwegian Partnership Programme for Global Academic Cooperation.

HIGHLIGHT OF ACTIVITIES WITH SIGNIFICANT SOCIETAL IMPACT

Anders Mikelsen was a Member of the expert group for the Official Norwegian Report on value added tax in 2019.

Caroline Dale Ditlev-Simonsen was a member of the Tribunal of complaints for foundations (stiftelsesklagenemnda) and a member of the law committee that prepared the new law on transparency (åpenhetsloven).

Eivind Furuseth is a member of the Tax Complaints Board under the auspices of the Ministry of Finance.

Harald Benestad Anderssen is member of the Tribunal for insurance complaints (Klagenemnda for forsikring- and gjenforsikringsmeglingsvirksomhet) and the Tribunal for ownership change insurance complaints (Klagenemnda for Eierskifteforsikring).

Inger Julie G. Aasland was member of the Foundations Act Commission presenting a proposal for a new Foundations Act in 2016.

Kari Birkeland was a member of the expert group for the Accounting Act Commission.

Monica Viken is a member of the Academic Advisory Board for the European Patent Organization 2016-2021 and was deputy chair for The Norwegian Financial Services Complaints Board in 2018.

Morten Kinander was appointed by the Norwegian Government to chair the committee for the Official Norwegian Report on tax advisors' information duty and duty of confidentiality in 2017.

Paul Henning Fjeldheim is a member of the Ethical Board for the Real Estate Agents Association and a member of the NOKUT (Norwegian Agency for Quality Assurance in Education) committee for accreditation of real estate programmes. He was previously a member of the board of the Tribunal for real estate services complaints.

Per Espen Stoknes was Deputy representative for Oslo in the Norwegian Parliament for the party Miljøpartiet de Grønne.

Stine Winger Minde was appointed by the Norwegian Department of Industry as secretary for the Official Norwegian Report (NOU) on Norwegian the Limited Liability Companies Acts 2016, and secretary of the Norwegian Corporate Governance commission.

Tore Bråthen was appointed by the Norwegian Government to chair the Norwegian Limited Liability Companies Acts Commission in 2016. He was also Chairman of the tribunal for real estate services complaints (Klagenemnda for Eien-domsmeglingstjenester) for more than 10 years, and chairman of the committee for Democracy (demokratiutvalget) of the housing association OBOS.

ALTMETRICS

Top 3 Publications in News

- Randers, Jorgen, and Ulrich Goluke. «An earth system model shows self-sustained melting of permafrost even if all man-made GHG emissions stop in 2020.» *Scientific reports 10.1* (2020): 1-9. 76 news mentions
- Goldthau, A., & Sitter, N. (2015). Soft power with a hard edge: EU policy tools and energy security. Review of International Political Economy, 22(5), 941-965. (ABS 3+) 1 news mention
- Stoknes, P. E., & Rockström, J. (2018). Redefining green growth within planetary boundaries. Energy Research & Social Science, 44, 41-49. 1 news mention

Top 3 Publications in policy documents

- Stoknes, P. E. (2014). Rethinking climate communications and the "psychological climate paradox". Energy Research & Social Science, 1, 161-170.
 1 policy document from the Stockholm Environment Institute
- Randers, J. (2012). Greenhouse gas emissions per unit of value added ("GEVA") A corporate guide to voluntary climate action. *Energy policy, 48, 46-55.* 1 policy document from the United Nations Environment Program
- Midttun, A., & Piccini, P. B. (2017). Facing the climate and digital challenge: European energy industry from boom to crisis and transformation. *Energy Policy*, 108, 330-343.
 1 policy document from the European Union

Top 3 Publications on Twitter

- Randers, Jorgen, and Ulrich Goluke. «An earth system model shows self-sustained melting of permafrost even if all man-made GHG emissions stop in 2020.» Scientific reports 10.1 (2020): 1-9. 2071 Twitter mentions by 1904 tweeters
- Randers, J., Golüke, U., Wenstøp, F., & Wenstøp, S. (2016). A user-friendly earth system model of low complexity: the ESCIMO system dynamics model of global warming towards 2100. Earth System Dynamics, 7(4), 831-850.
 63 Twitter mentions by 59 tweeters
- Turchin, P., Witoszek, N., Thurner, S., Garcia, D., Griffin, R., Hoyer, D., ... & Gavrilets, S. (2018). A history of possible futures: Multipath forecasting of social breakdown, recovery, and resilience. Cliodynamics, 9(2). 61 Twitter mentions by 46 tweeters

CURRENT MEMBERSHIPS OF ACADEMIC SOCIETIES, COMMITTEES, AND JOURNAL EDITORSHIPS

- Alexander Næss Skjønberg is a Member of the International Society of Labour and Social Security Law
- Anders Mikelsen is a member of the editorial board, Skatterett (Tax Law).
- Espen Ekberg is the editor-in-chief of Scandinavian Economic History Review (2019-present).
- Eivind Furuseth is the editor of Skatterett (Tax Law). He is also a member of the Academic Committee of the European Association og Tax Law Professors (EATLP).
- Ola Morris Innset is the editor of the journal Vinduet (Norway's oldest and most important literature journal).
- Irina Eidsvold-Tøien og Monica Viken are members of ATRIP International Association for Teaching and Research in Intellectual Property.
- Monica Viken is Co-editor of Tidsskrift for forretningsjus (Journal of Business Law) Universitetsforlaget.
- Tore Bråthen is the Editor of Company law, Norsk Lovkommentar, Editor, Nordisk Tidsskrift for Selskapsrett (NTS) and a member of editorial committee for Corporate Ownership and Control journal, and the editorial committee for Tidsskrift for Eiendomsrett.

MOST CITED PUBLICATIONS

Number of citations	Year	Author(s)	Title and journal
69	2014	Stoknes, P. E.	Rethinking climate communications and the "psychological climate paradox". <i>Energy Research & Social Science, 1</i> , 161-170.
49	2015	Goldthau, A., & Sitter, N.	Soft power with a hard edge: EU policy tools and energy security. <i>Review of International Political Economy, 22(5)</i> , 941-965.
49	2014	Goldthau, A., & Sitter, N.	A liberal actor in a realist world? The Commission and the external dimension of the single market for energy. <i>Journal of European Public Policy</i> , 21(10), 1452-1472.
40	2012	Randers, J.	Greenhouse gas emissions per unit of value added ("GEVA") - A corporate guide to voluntary climate action. Energy policy, 48, 46-55.
30	2015	Ditlev-Simonsen, C. D.	The relationship between Norwegian and Swedish employees' perception of corporate social responsibility and affective commitment. <i>Business & Society, 54(2),</i> 229-253.
24	2013	Ditlev-Simonsen, C. D., & Wenstøp, F.	How stakeholders view stakeholders as CSR motivators. Social responsibility journal.
18	2018	Stoknes, P. E., & Rockström, J.	Redefining green growth within planetary boundaries. Energy <i>Research & Social Science, 44,</i> 41-49.
17	2013	Bakke, E., & Sitter, N.	Why do parties fail? Cleavages, government fatigue and electoral failure in the Czech Republic, Slovakia and Hungary 1992–2012. <i>East European Politics, 29(2),</i> 208-225.
15	2019	Randers, J., Rockström, J., Stoknes, P. E., Goluke, U., Collste, D., Cornell, S. E., & Donges, J.	Achieving the 17 Sustainable Development Goals within 9 planetary boundaries. <i>Global Sustainability, 2.</i>
15	2017	Midttun, A., & Piccini, P. B.	Facing the climate and digital challenge: European energy industry from boom to crisis and transformation. <i>Energy Policy, 108,</i> 330–343.

Department of Leadership and Organizational Behaviour

The Department of Leadership and Organizational Behaviour has its core competence within organizational psychology, management of change, organizational leadership, and project management. Øyvind Lund Martinsen is Head of Department.

The department has the highest number of publications at BI. Many of the most cited articles published in the journals address issues relating to the effect of different types of leadership and job designs on employees' performance. Examples include topics such as empowering leadership, relationship between leadership competences of project managers and their success in projects, motivation, stress, and work effort. Social exchange theory and developing theory have also been the focus in several publications.

HIGHLIGHT OF ACTIVITIES WITH SIGNIFICANT SOCIETAL IMPACT

Anders Dysvik leads the Abelia (Norwegian association of knowledge and technology companies) committee on the future's ideal employers.

Bård Kuvaas has influenced many organizations' personnel policies. Among these are If, Telenor, Norsk Hydro, and Orkla. He was awarded the NEON price for his efforts in communicating theoretical developments to practitioners in Norway. He writes regularly for the Norwegian business daily Dagens Næringsliv.

Jan Ketil Arnulf has been consulted by and given advice to many organizations including Orkla, Ferd, DNB, ECONA, Elkem, and Norwegian Defense.

Linda Lai created a system to improve collaboration for Norwegian municipalities in partnership with the Norwegian Association of Local and Regional Authorities. 292 municipalities (out of a total of 356) have implemented the system. The system has also had input by Christina L. Nerstad. Linda Lai also developed a framework for strategic management of human resources, which is used by NAV, Norwegian tax authorities, and NRK. She writes regularly for the Norwegian business daily Dagens Næringsliv.

Stig Berge Matthiesen was a member of the Government's Whistle Blowing committee 2016-2018.

Thorvald Hærem was used as an expert witness in the investigation of the 2018 crash of the Norwegian frigate Helge Ingstad.

Øyvind Kvalnes writes regular columns for the Norwegian business daily Dagens Næringsliv.

Øyvind L. Martinsen has created multisource leader assessment instruments for Norway's biggest leader development consultancy company (AFF) and for the Norwegian Military. He was a member of a committee developing principles for leadership development arranged by the Norwegian Psychological Association. He has been consulted by Norsk Hydro, Telenor, Veritas, Hogrefe Test Förlag, 3M Norway, Posten, SAS Institute, NOFIMA, Akershus Fylkeskommune, and others.

ALTMETRICS

Top 3 Publications in News

- Skogstad, A., Aasland, M. S., Nielsen, M. B., Hetland, J., Matthiesen, S. B., & Einarsen, S. (2015). The relative effects of constructive, laissez-faire, and tyrannical leadership on subordinate job satisfaction. *Zeitschrift für Psychologie*. *7 news mentions*
- De Paoli, D., & Ropo, A. (2015). Open plan offices-the response to leadership challenges of virtual project work?. Journal of Corporate Real Estate. 7 news mentions
- Thompson, G., Buch, R., & Glasø, L. (2018). Follower jealousy at work: A test of Vecchio's model of antecedents and consequences of jealousy. *The Journal of psychology*, 152(1), 60-74.
 5 news mentions

Top 3 Publications in Policy Documents

- Kuvaas, B., Buch, R., Weibel, A., Dysvik, A., & Nerstad, C. G. (2017). Do intrinsic and extrinsic motivation relate differently to employee outcomes?. *Journal of Economic Psychology*, 61, 244-258.
 1 policy document from the Dutch Government
- Pemsel, S., & Müller, R. (2012). The governance of knowledge in project-based organizations. International Journal of Project Management, 30(8), 865-876.
 1 policy document from the World Bank
- Nielsen, M. B., Glasø, L., & Einarsen, S. (2017). Exposure to workplace harassment and the Five Factor Model of personality: A meta-analysis. *Personality and individual differences, 104,* 195-206.
 1 policy document from Analysis & Policy Observatory

Top 3 Publications on Twitter

- Nordmo, M., Næss, J. Ø., Husøy, M. F., & Arnestad, M. N. (2020). Friends, lovers or nothing: Men and women differ in their perceptions of sex robots and platonic love robots. *Frontiers in psychology, 11,* 355 So far, Altmetric has seen 135 tweets from 124 users, with an upper bound of 691,464 followers
- Lai, L., & Farbrot, A. (2014). What makes you click? The effect of question headlines on readership in computer-mediated communication. *Social Influence*, 9(4), 289-299.
 So far, Altmetric has seen 135 tweets from 97 users, with an upper bound of 827,160 followers
- Abdel-Hamid, T., Ankel, F., Battle-Fisher, M., Gibson, B., Gonzalez-Parra, G., Jalali, M., ... & Murphy, P. (2014). Public and health professionals' misconceptions about the dynamics of body weight gain/loss. *System dynamics review, 30(1-2)*, 58-74.
 So far, Altmetric has seen 101 tweets from 31 users, with an upper bound of 280,398 followers

CURRENT MEMBERSHIPS OF ACADEMIC SOCIETIES, COMMITTEES, AND JOURNAL EDITORSHIPS

- Arne Carlsen has been Associate Editor for Management Learning.
- Anders Dysvik is Associate Editor for Human Resource Management Journal, Associate Editor for Frontiers in Psychology, Board of Organizational Psychology, and Co-editor for the German Journal of Human Resource Management.
- Ralf Müller is Editor in Chief for the Project Management Journal.
- Øyvind Lund Martinsen is editor in chief for Scandinavian Journal of Educational Research.

MOST CITED PUBLICATIONS

Number of citations	Year	Author(s)	Title and journal
241	2014	Černe, M., Nerstad, C. G., Dysvik, A., & Škerlavaj, M.	What goes around comes around: Knowledge hiding, perceived motivational climate, and creativity. <i>Academy of Management Journal, 57(1)</i> , 172-192.
122	2014	Amundsen, S., & Martinsen, Ø. L.	Empowering leadership: Construct clarification, conceptualization, and validation of a new scale. The leadership quarterly, 25(3), 487-511.
85	2011	Müller, R., Geraldi, J., & Turner, J. R.	Relationships between leadership and success in different types of project complexities. <i>IEEE Transactions on Engineering Management, 59(1),</i> 77-90.
79	2017	Černe, M., Hernaus, T., Dysvik, A., & Škerlavaj, M.	The role of multilevel synergistic interplay among team mastery climate, knowledge hiding, and job characteristics in stimulating innovative work behavior. Human Resource Management Journal, 27(2), 281-299.
63	2013	Dysvik, A., & Kuvaas, B.	Intrinsic and extrinsic motivation as predictors of work effort: The moderating role of achievement goals. <i>British Journal of Social Psychology, 52(3</i>), 412-430.
63	2012	Kuvaas, B., Buch, R., Dysvik, A., & Haerem, T.	Economic and social leader–member exchange relationships and follower performance. <i>The Leadership Quarterly, 23(5)</i> , 756-765.
62	2014	Skogstad, A., Hetland, J., Glasø, L., & Einarsen, S.	Is avoidant leadership a root cause of subordinate stress? Longitudinal relationships between laissez-faire leadership and role ambiguity. <i>Work & Stress, 28(4),</i> 323-341.
58	2017	Nielsen, M. B., Glasø, L., & Einarsen, S.	Exposure to workplace harassment and the Five Factor Model of personality: A meta-analysis. <i>Personality and individual differences, 104,</i> 195-206.
58	2013	Van Oorschot, K. E., Akkermans, H., Sengupta, K., & Van Wassenhove, L. N.	Anatomy of a decision trap in complex new product development projects. <i>Academy of Management Journal, 56(1),</i> 285-307.
52	2015	Hærem, T., Pentland, B. T., & Miller, K. D.	Task complexity: Extending a core concept. Academy of management review, 40(3), 446-460. Topics: Task complexity, leadership, portfolio management, innovative work behavior

Department of Marketing

The Department of Marketing is one of the largest academic communities within the field of Marketing in Europe. In order to be closely connected to the marketing industry, the department collaborates with EPSI-Norway and the Norwegian Association of Marketers (MFO). Over half the publications are in top journals. In addition, the department has the highest average number of citations per publication. Line Lervik-Olsen is Head of Department.

The main research areas for the department are consumer behaviour, sensory marketing, marketing strategy, marketing modelling and business-to-business relationships. Also, among the most cited papers, we find topics about literature review and research methodology, as well as Effects of COVID-19 on business and research.

The department heads one competence centre.

COMPETENCE CENTRES

Center for Multisensory Marketing

The goal of the centre is to advance knowledge concerning the role of the human senses in marketing and to provide actionable insights for industry when it comes to the development of advertising, products, services, and digital as well as physical environments. The Centre has collaborated with businesses including Salma, Asahi and Kvikklunsj.

HIGHLIGHT OF ACTIVITIES WITH SIGNIFICANT SOCIETAL IMPACT

Norwegian Customer Satisfaction Barometer and Norwegian Sustainability Barometer

Over the past 20 years Norwegian Customer Satisfaction Barometer (Norsk kundebarometer/NKB) has rated customer loyalty and customer satisfaction of Norwegian companies. The ranking, which is a result of the department's research, has a high standing in Norway. The annual results receive a lot of public attention. It gets cited between 2000-3000 times in the media each year, while NKB's website at BI.no had more than 75.000 visitors from May to December in 2020.

The NKB functions as an important benchmark for many Norwegian businesses. Some Norwegian companies even use NKB as a key performance indicator (KPI), while others include their NKB rank in their marketing campaigns.

With the increased focus on sustainability, BI launched the Norwegian Sustainability Barometer (Norsk Bærekraftsbarometer) in 2020. This benchmark helps Norwegian companies better understand how their sustainability efforts are received among costumers. The aim is to stimulate businesses to make sustainable choices easier and more available for consumers.

In its first year, its website received approximately 11.000 visitors. The winner (of both 2021/2021) invited the NBB team to present more detailed results to inspire the company's sustainability work onwards.

Matilda Dorotic was invited as an expert to discuss Al's impact on social wellbeing for European Commission and various Norwegian institutions.

Ragnhild Silkoset was invited as an expert to discuss bloc chains and their importance for industries with various organizations.

ALTMETRICS

Top 3 Publications in News

- Pathak, A., Velasco, C., & Calvert, G. A. (2019). Implicit and explicit identification of counterfeit brand logos based on logotype transposition. *Journal of Product & Brand Management*. 18 news mentions
- Reed II, A., Forehand, M. R., Puntoni, S., & Warlop, L. (2012). Identity-based consumer behavior. International Journal of Research in Marketing, 29(4), 310-321.
 16 news mentions
- Bravo-Moncayo, L., Reinoso-Carvalho, F., & Velasco, C. (2020). The effects of noise control in coffee tasting experiences. *Food Quality and Preference*, *86*, 104020. *10 news mentions*

Top 3 Publications on Twitter

- Snyder, H. (2019). Literature review as a research methodology: An overview and guidelines. Journal of Business Research, 104, 333-339.
 So far, Altmetric has seen 194 tweets from 185 users, with an upper bound of 557,874 followers
- Bravo-Moncayo, L., Reinoso-Carvalho, F., & Velasco, C. (2020). The effects of noise control in coffee tasting experiences. *Food Quality and Preference*, *86*, 104020. So far, Altmetric has seen 76 tweets from 64 users, with an upper bound of 80,433 followers
- Velasco, C., Wan, X., Knoeferle, K., Zhou, X., Salgado-Montejo, A., & Spence, C. (2015). Searching for flavor labels in food products: the influence of color-flavor congruence and association strength. *Frontiers in Psychology, 6*, 301. So far, Altmetric has seen 52 tweets from 22 users, with an upper bound of 64,758 followers

CURRENT MEMBERSHIPS OF ACADEMIC SOCIETIES, COMMITTEES, AND JOURNAL EDITORSHIPS

- Anders Gustafsson is editor of the Journal of Business Research and board member of the Sheth Foundation. He was president of the Academic Council of the American Marketing Association.
- Jon Bingen Sande is member of the editorial board of the Journal of Inter-organizational Relationships.
- Luk Warlop is board member of EISAM (European Institute for Advanced Studies in Management), and senior editor of the International Journal of Research in Marketing. He was president of the European Marketing Academy.

MOST CITED PUBLICATIONS

Number of citations	Year	Author(s)	Title and journal
325	2019	Snyder, H.	Literature review as a research methodology: An overview and guidelines. <i>Journal of Business Research, 104</i> , 333-339.
213	2012	Reed II, A., Forehand, M. R., Puntoni, S., & Warlop, L.	Identity-based consumer behavior. International Journal of Research in Marketing, 29(4), 310-321.
142	2013	Olson, E. L.	It's not easy being green: the effects of attribute tradeoffs on green product preference and choice. <i>Journal of the Academy of Marketing Science, 41(2),</i> 171-184.
123	2020	Donthu, N., & Gustafsson, A.	Effects of COVID-19 on business and research. <i>Journal of business research, 117,</i> 284.
71	2014	Knox, G., & Van Oest, R.	Customer complaints and recovery effectiveness: A customer base approach. <i>Journal of marketing, 78(5),</i> 42–57.
68	2015	Breugelmans, E., Bijmolt, T. H. Zhang, J., Basso, L. J., Dorotic, M., Kopalle, P., & Wünderlich, N. V.	, Advancing research on loyalty programs: a future research agenda. <i>Marketing Letters, 26(2)</i> , 127-139.
67	2015	Knoeferle, K. M., Woods, A., Käppler, F., & Spence, C.	That sounds sweet: Using cross-modal correspondences to communicate gustatory attributes. <i>Psychology & Marketing, 32(1),</i> 107-120.
67	202	Abrahamsen, M. H., Henneberg, S. C., & Naudé, P.	Using actors' perceptions of network roles and positions to under stand network dynamics. Industrial Marketing Management, 41(2), 259-269.
65	2019	Petit, O., Velasco, C., & Spence, C.	Digital sensory marketing: Integrating new technologies into multisensory online experience. <i>Journal of Interactive Marketing, 45</i> , 42–61.
60	2015	Watson IV, G. F., Worm, S., Palmatier, R. W., & Ganesan, S.	The evolution of marketing channels: Trends and research directions. <i>Journal of Retailing, 91(4),</i> 546-568.

Department of Strategy and Entrepreneurship

The Department of Strategy and Entrepreneurship develops and disseminates expertise in strategy and corporate business models, technology entrepreneurship, and internationalization. Healthcare and construction are examples of important industries to the Department. Thomas Hoholm is Head of Department.

The department holds three endowed professorships, financed respectively by the Tom Wilhelmsen foundation, a consortium of Norwegian real estate and construction companies, and the dairy company Tine SA and meat producer Nortura SA.

The Department is home to two Research Centres and two competence centres.

Faculty participates in a range of externally funded research projects in the interface between Department disciplines and Industry challenges.

RESEARCH CENTRES

Centre for Healthcare Management (CHM)

Faculty from the centre have academic responsibility for two National Executive education programs commissioned by the Government, one in strategy, innovation and leadership for Top Managers across the healthcare sector, and another in leadership and innovation for middle managers in the primary healthcare services. More than 250 healthcare managers complete these programs each year.

An external consultancy, Rambøll, evaluated the latter program throughout 2015-2021. Students of the program and their superiors and employees were interviewed, and the evaluation concluded that the research-based program had significantly improved quality in health services through developing innovation and relationship-oriented leaders.

The centre researchers participates as a major research partner in a large-scale program for research-driven innovation (SFI) in digital health, Center for Connected Care (C3), with 8-year funding from the Research Council of Norway. Per Ingvar Olsen is a Co-director of C3.

Centre for the Construction Industry

The centre has since the start in 2005 worked closely with major actors in the Norwegian construction and property industries through a considerable portfolio of research projects. With funding from the Research Council of Norway, they have managed and/or participated in four large research and innovation projects, and the large-scale 8-year center for research-driven innovation (SFI) "Climate 2050", and several projects with industry funding.

The Centre has performed a series of value creation analyses, including for the Government white paper (Stortingsmelding) 28 (2011-2012) "Gode bygg for eit betre samfunn" (Good buildings for a better society), largely based on analyses from the Center. In addition, researchers from the Center have participated actively in several commissions, groups and networks, such as Bygg 21 (Construction 21, industry strategy and policy group), Prosjekt Norge (Project Norway, network), Construction City and Lean Construction Norway, all of which are concerned with improvements of the industry, including sustainability.

Finally, the Centre has run several education programmes for managers, contributing the developing management competence development in the industry. This fall, a tailor-made top management program is launched with one of the major companies in the sector, Veidekke.

COMPETENCE CENTRES

Centre for Cooperative Studies

The centre studies models for economic efficiency, ownership structures and organization of agricultural cooperatives.

Centre for Digitalization

The centre studies how digitalization influences markets and strategies, and what companies can do to adapt to digital competition and exploit digital technology.

HIGHLIGHT OF ACTIVITIES WITH SIGNIFICANT SOCIETAL IMPACT

Øystein D Fjeldstad's work on value creation models (1998) developed together with Charles Stabell has become a major reference point in the literature. A 2018 article in British Medical Journal, reports on a survey of Learning Health Networks, the largest encompassing more than 110 hospitals, that have achieved substantial improvements in outcomes. These networks use the actor-oriented organizational architecture developed and published by Fjeldstad, Snow, Miles, and Let-tl (2012) and the aim of these networks is to transform the healthcare system towards systematic collaboration, learning and improvement.

CURRENT MEMBERSHIPS OF ACADEMIC SOCIETIES, COMMITTEES, AND JOURNAL EDITORSHIPS

- Birgitte Grøgaard is the President Elect of the European International Business Association (EIBA).
- Gabriel R.G. Benito is co-editor of the Global Strategy Journal (AJG4), one of the leading journals in strategy research. Gabriel is also a consulting editor of Journal of International Business Studies.
- Randi Lunnan is Associate Editor of Long Range Planning (AJG3), one of the leading journals in strategic management.
- Ragnhild Kvålshaugen is one of the editors of Praktisk Økonomi og Finans, publishing research and best-practice papers in Norwegian.

ALTMETRICS

Top 3 Publications in News

- Aadland, E., Cattani, G., & Ferriani, S. (2019). Friends, Gifts, and Cliques: Social Proximity and Recognition in Peer-Based Tournament Rituals. Academy of Management Journal, 62(3), 883-917. 11 news mentions
- Aadland, E., Cattani, G., Falchetti, D., & Ferriani, S. (2020). Reflecting glory or deflecting stigma? The interplay between status and social proximity in peer evaluations. *PloS one, 15(9)*, e0238651.
 4 news mentions
- Swärd, A. (2016). Trust, reciprocity, and actions: The development of trust in temporary inter-organizational relations Organization Studies, 37(12), 1841-1860.
 2 news mentions

Top 3 Publications in policy documents

- Fjeldstad, Ø. D., Snow, C. C., Miles, R. E., & Lettl, C. (2012). The architecture of collaboration. Strategic management journal, 33(6), 734-750.
 4 policy documents from the UK Government, the Institute of Network Cultures, and the Analysis and Policy Observatory
- Sasson, A., & Johnson, J. C. (2016). The 3D printing order: variability, supercenters and supply chain reconfigurations. International Journal of Physical Distribution & Logistics Management. 1 policy document from the UK Government
- Larsen, M. M., & Lyngsie, J. (2017). Ambiguous adaptation: The effect of contract duration and investments in relational mechanisms on premature relationship termination. *Long Range Planning*, 50(6), 794-808.
 1 policy document from the European Union

Top 3 Publications on Twitter

- Fjeldstad, Ø. D., Johnson, J. K., Margolis, P. A., Seid, M., Höglund, P., & Batalden, P. B. (2020). Networked health care: *Rethinking value creation in learning health care systems* (Vol. 4, No. 2, p. e10212) So far, Altmetric has seen 138 tweets from 105 users, with an upper bound of 329,444 followers
- Škerlavaj, M., Černe, M., Dysvik, A., & Carlsen, A. (Eds.). (2016). Capitalizing on creativity at work: fostering the implementation of creative ideas in organizations. Edward Elgar Publishing. So far, Altmetric has seen 32 tweets from 16 users, with an upper bound of 24,422 followers
- Snow, C. C., Fjeldstad, Ø. D., & Langer, A. M. (2017). Designing the digital organization. Journal of organization Design, 6(1), 1-13. So far, Altmetric has seen 31 tweets from 19 users, with an upper bound of 132,768 followers

MOST CITED PUBLICATIONS

Number of citations	Year	Author(s) T	ītle and journal
201	2012	Fjeldstad, Ø. D., Snow, C. C., Miles, R. E., & Lettl	The architecture of collaboration. , Strategic management journal 33(6), 734-750.
103	2012	Baraldi, E., Gressetvold, E., & Harrison, D.	Resource interaction in inter-organizational networks: Foundations, comparison, and a research agenda. <i>Journal of Business Research, 65(2),</i> 266-276.
90	2014	Bygballe, L. E., & Ingemansson, M	The logic of innovation in construction. Industrial marketing management, 43(3), 512-524.
63	2018	Fjeldstad, Ø. D., & Snow, C. C.	Business models and organization design. Long Range Planning, 51(1), 32-39. economies. <i>Journal of Applied Econometrics, 30(7</i>), 1013-1028.
57	2019	Aguilera, R. V., & Grøgaard, B.	The dubious role of institutions in international business: A road forward. <i>Journal of International Business Studies, 50(1)</i> , 20-35.
45	2015	Fassin, Y., Werner, A., Van Rossem, A., Signori, S., Garriga, E.,von Weltzien Hoivik, H., & Schlierer, H. J.	CSR and related terms in SME owner–managers' mental models in six European countries: National context matters. <i>Journal of Business Ethics, 128(2),</i> 433-456.
41	2016	Swärd, A.	Trust, reciprocity, and actions: The development of trust in temporary inter-organizational relations. <i>Organization Studies, 37(12),</i> 1841-1860.
39	2019	Langley, A., Lindberg, K., Mørk, B. E., Nicolini, D., Raviola, E., & Walter, L.	Boundary work among groups, occupations, and organizations: From cartography to process. <i>Academy of Management Annals, 13(2)</i> , 704-736.
38	2017	La Rocca, A., Hoholm, T., & Mørk, B. E.	Practice theory and the study of interaction in business relationships: Some methodological implications. Industrial Marketing Management, 60, 187-195.
38	2017	Aarikka-Stenroos, L., Jaakkola, E., Harrison, D., & Mäkitalo-Keinonen, T.	How to manage innovation processes in extensive networks: A longitudinal study. <i>Industrial Marketing Management, 67</i> , 88-105.

4. Appendix

BI FACULTY ON THE LIST OF WORLD'S TOP 2% LEADING SCIENTISTS

loannidis et al. (2019)⁵ have used Scopus data to compile a database of the 160,000 most-cited authors across every scientific fields based on their ranking of a composite indicator that considers six citation metrics. The database takes into account self-citations by including an estimate for the percent of references in each individual's articles that are citing their own research. Scientists were classified into 22 scientific fields and 176 sub-fields. The authors have published two versions of the database:

- Career-long impact: this indicator is calculated using Scopus citation data over a period of 24 years (from January 1, 1996 until December 31, 2019)⁴. It provides a measure of long-term performance, and for most living, active scientists, this also reflects their career-long impact or is a very good approximation thereof.

- Single-year impact: this indicator is calculated using data for citations in a single calendar year (the latest update available is for 2019). Since it provides a measure of performance in that single recent year, it removes the bias that may exist in any comparison of senior scientists, who have accrued citations over many years of active work, versus early career researchers, who have not had time to accumulate so many citations.

Eight of BIs researchers are on the career-long impact list (see Table 1), with three of them in the top 50,000 scientists. Among Norwegian researchers (technically, researchers associated with a Norwegian institution), all eight BI researchers are in the top 500.

Fourteen of BI's researchers are on the single-year impact list (see Table 2). Ten of our researchers are in the top 50,000.

In the field of Business and Economics, in the single-year impact list, more than 20% of researchers with a Norwegian institutional affiliation are from BI. Out of 50 researchers, 11 are from BI, 3 from NHH, and 5 from University of Oslo.

	Global Rank	Rank among Norwegian Researchers	Scientific Field	Rank in Scientific Field	Sub-Field	Rank in Sub- Field
Furnham, Adrian Canova, Fabio Huse, Morten Gottschalk, Petter Hakansson, Hakan Hope, Ole Kristian Söderlund, Jonas Geys, Benny	556 31648 48650 68486 73013 73282 84782 97408	2 129 215 312 335 337 406 494	Psychology & Cognitive Sciences Economics & Business Economics & Business Social Sciences Economics & Business Economics & Business Economics & Business Economics & Business Economics & Business	28 768 1223 1219 1873 1880 2228 2594	Social Psychology Economics Business & Management Business & Management Marketing Accounting Building & Construction Economics	11 245 434 621 144 48 136 766

Table 1 – BIs researchers in the global list of scientists with top career-long citation impact in their field. Ranking is based on a composite score where self-citations are excluded. Note that here adjunct (part time) faculty are also included.

⁵Ioannidis, John PA, et al. «A standardized citation metrics author database annotated for scientific field.» PLoS biology 17.8 (2019): e3000384.

⁴ For papers published from 1960 until 1995, the citations received in 1996–2019 are also included in the calculations, but the citations received up to 1995 are not.

SOCIETAL IMPACT OF RESEARCH REPORT

	Global Rank	Rank among Norwegian Researchers	Scientific Field	Rank in Scientific Field	Sub-Field	Rank in Sub- Field
Furnham, Adrian Hope, Ole Kristian	555 16305	1 76	Psychology & Cognitive Sciences Economics & Business	41 1015	Social Psychology Accounting	21 31
Huse, Morten	19484	95	Economics & Business	1184	Business & Management	471
Kuvaas, Bård Canova, Fabio	19930 20153	98 102	Economics & Business Economics & Business	1210 1225	Business & Management Economics	482 308
Dries, Nicky Müller, Ralf	22001 23981	113 129	Economics & Business Built Environment & Design	1325 165	Business & Management Building & Construction	525 116
Geys, Benny	29862	167	Economics & Business	1741	Economics	440
Gustafsson, Anders Söderlund, Jonas	35449 40003	191 218	Economics & Business Economics & Business	2043 2278	Marketing Building & Construction	185 195
Hakansson, Hakan	75297 76992	422	Economics & Business Economics & Business	3972 4042	Marketing	415 1467
Benito, Gabriel R.G. Gottschalk, Petter	77299	434 438	Social Sciences	2531	Business & Management Business & Management	1476
Olson, Erik L.	89789	509	Economics & Business	4607	Marketing	491

Table 2 – Bls researchers in the global list of scientists with top single-year citation impact in their field. Ranking is based on a composite score where self-citations are excluded. Note that here adjunct (part time) faculty are also included.

TOP CITED RESEARCHERS IN GOOGLE SCHOLAR

Below we show top cited researchers per department that have more than 500 citations according to Google Scholar. This information was obtained by using Google Scholar search "By institutions". If the researcher does not have a Google Profile or has not provided their affiliation as "BI Norwegian Business School" in their profile, or does not have a verified BI email address they will not be on this list. For this data to be correct the researcher should also have an updated profile. Adjunct faculty are not included in this list.

Department of Accounting and Operations Management

Marianne Jahre	Professor	3358
Ingunn Myrtveit	Professor	2340
John Christian Langli	Professor	1024
Atle Nordli	Associate Professor	630

Department of Communication and Culture

Christoph Lutz	Associate Professor	2470
Christian Fieseler	Professor	2379
Sut I Wong	Professor	1340
Eliane Bucher	Assistant Professor	745
Suzanne van Gils	Associate Professor	557

Department of Economics

Fabio Canova	Professor	16850
Benny Geys	Professor	6498
Ulf Henning Olsson	Professor	3792
Hilde C. Bjørnland	Professor	3384
Rune Jørgen Sørensen	Professor	3275

Department of Finance

Øyvind Norli	Professor	3720
Richard Priestley	Professor	3394
Dagfinn Rime	Professor	2724
Paolo Giordani	Professor	2233
Samuli Knüpfer	Professor	1703

Department of Law and Governance

Nick Sitter	Professor	2925
Per Espen Stoknes	Associate Professor	789
Caroline Dale Ditlev-Simonsen	Professor	589

Department of Leadership and Organizational Behaviour

Ralf Müller	Professor	14972
Bard Kuvaas	Professor	7770
Anders Dysvik	Professor	5774
Øyvind Martinsen	Professor	2687
Jan Terje Karlsen	Professor	2686

Department of Marketing

Anders Gustafsson	Research Professor	19631
Jan-Michael Becker	Associate Professor	9761
luk warlop	Professor	7519
Fred Selnes	Professor	7315
Carlos Velasco	Associate Professor	3871

Department of Strategy and Entrepreneurship

Gabriel RG Benito	Research Professor	5840
Øystein D Fjeldstad	Professor	4332
Debbie Harrison	Professor	2030
Lars Huemer	Professor	2549
Alessandra Luzzi	Associate Professor	1797



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