

The role of journal impact factor in chemistry research

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Abstract: The journal impact factor is a skewed metric whose value is dictated by just a few highly cited articles. Therefore, the use of the JIF to evaluate journals, scholars, or research institutes is flawed. Still, the JIF continues to play a central role in evaluating scholarship in chemistry, the most reluctant amid scientific disciplines to embrace the principles of open science. This study investigates the origins of this social behavior, and suggests avenues to improve scholarly communication in the chemical sciences following the example of the life sciences.

1. Introduction

The journal impact factor (JIF) was introduced by Garfield and Sher as the ratio between the number of citations in the current year to articles published in a indexed journal in the previous 2 years and the overall number of articles published by the journal in the same previous 2 years.¹ In 1975, Garfield's company (Institute for Scientific Information, USA) started to publish the annual *SCI Journal Citation Reports* containing the JIF values of indexed scientific journals.²

"Indexed" means that said articles were included in the "Science Citation Index" (SCI), a cross-disciplinary database launched by Garfield and Sher in 1964 with two purposes: "first, to identify what each scientist has published, and second, where and how often the papers by that scientist are cited".³

Whoever uses the JIF, wrote Curry in 2012, is "statistically illiterate".⁴ As shown by Seglen in 1992,⁵ indeed, the citation distribution is so skewed that only 15% of the papers in a journal account for 50% of the total citations. This fact makes the JIF a worthless tool to evaluate scientific journals. "Take a moment to think about what that means", added Curry, "the vast majority of the journal's papers - fully 85% - have fewer citations than the average".⁶

Consequently, evaluation of researchers based on the JIF of journals selected for publication is inherently flawed.⁶ Still, evaluation committees worldwide continue to use the JIF to evaluate scholarship based on the aforementioned intrinsically biased metric of "academic prestige". Examples span from ongoing use of the JIF in academic review, promotion, and tenure evaluations at "research-intensive" universities in United States of America and Canada,⁷ through the "uncontested focus on impact factors" for researcher evaluation in Spain.⁸

The "skewness of science",⁹ namely the Pareto distribution for which a small percentage of journals account for a large percentage of the articles published in a specific field of science, had been unveiled by Bradford, a mathematician and then a librarian at London-based Science Museum, in 1934.¹⁰

Displaying a graph reporting the "cumulative percent of journal items published" vs. the number of science journals indexed, Garfield in a video recorded in 1967 emphasized how just 365 journals accounted for over 90% of the articles.¹¹ This, he concluded, shows evidence of the "Bradford's law", namely the

law of distribution of papers on a given subject in scientific periodicals.⁹

The success of the SCI database, wrote Garfield in 2007, "did not stem from its primary function as a search engine, but from its use as an instrument for measuring scientific productivity, made possible by the advent of its by-product, the *SCI Journal Citation Reports*, ... and its Impact Factor rankings".¹² Today, from CrossRef through Dimensions, numerous other scientific databases exist that index scientific journals and return the number of citations for each of the aforementioned "journal items published". What has barely changed since the early days of the JIF, is the rush to academic prestige based on publishing in "high ranking" (i.e. high JIF) journals.

In chemistry research, the JIF has played a critical role which partly explains why chemistry – from the poor uptake of preprints¹³ through open access (OA) publishing¹⁴ – has been the most reluctant amid the so-called "basic" scientific disciplines (physics, chemistry, mathematics and biology) to embrace the principles and the tools of open science. One key principle of open science is the global need to improve scholarship evaluation, going beyond the misuse of bibliometric indicators such as the JIF wrongly used to assess scholars.^{15,16}

Putting the discussion in context by focusing first on the case of chemistry research, this study investigates the origins of this social behavior. We conclude suggesting avenues to improve scholarly communication in the chemical sciences following the example of the life sciences.

2. The case of chemistry research

Chemistry is unique amid all basic sciences because it has the highest level of publishing market concentration. Between 1973 and 2013, the share of papers published by the top five publishers (Reed-Elsevier, Springer, Wiley, ACS Publishing and Taylor & Francis) has increased from about 40% to >70%.¹⁷ Another key publisher of chemistry research is RSC Publishing, namely the publishing branch of the Royal Society of Chemistry.

In the first three decades of the 21st century, new competitors such as MDPI, Hindawi and Frontiers Media emerged. Two, in particular, MDPI and Frontiers (both based in Switzerland), quickly grew and respectively became in 2022 the world's third and sixth largest scientific publishers by number of published articles.¹⁸

Academic behavior may also be understood within the context of a prestige (or attention) economy that drives motivation in academic life.¹⁹ As noted by Pyfe and co-authors, after the Second World War large publishing companies learned how to make themselves "apparently indispensable"²⁰ to achieve said academic prestige. In brief, academic careers, including those in the chemical sciences, are chiefly based on highly cited research papers and large number of citations.

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**Schnackenberg, Heidi L., Simard,
Denise A.**



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Brain Korea 21 Phase II, 2008 The Brain Korea 21 Program BK21 which seeks to make Korean research universities globally competitive and to produce more high quality researchers in Korea provides funding to graduate students and professors who belong to research groups at top universities The authors develop quantitative and qualitative models to evaluate how well BK21 is fulfilling its goals and make suggestions for further stimulating Korean university research

Scientific Journals Tony Stankus, 1990 Suggests to librarians how to create a good collection of scientific journals keeping tabs on the industry and finding acceptable alternatives to the expensive European publications Annotation copyright Book News Inc Portla Or

Developments in Management Science in Engineering 2018 Jiuping Xu, 2020-01-17 Management science in engineering MSE is playing an increasingly important role in modern society In particular the development of efficient and innovative managerial tools has significantly influenced the research progress of management science in engineering This book identifies the main research categories of MSE and evaluates and classifies each journal in this field It has been developed through the joint efforts of scientific board members many of whom are editors in chief of significant journals academics and members and fellows of various relevant societies It will be of interest to scientists researchers practitioners engineers graduate students and upper level undergraduates in engineering management civil engineering industrial engineering environmental engineering energy engineering information engineering and agricultural engineering Cumulated Index Medicus, 1992

Springer Handbook of Science and Technology Indicators Wolfgang Glänzel, Henk F. Moed, Ulrich Schmoch, Mike Thelwall, 2019-10-30 This handbook presents the state of the art of quantitative methods and models to understand and assess the science and technology system Focusing on various aspects of the development and application of indicators derived from data on scholarly publications patents and electronic communications the individual chapters written by leading experts discuss theoretical and methodological issues illustrate applications highlight their policy context and relevance and point to future research directions A substantial portion of the book is dedicated to detailed descriptions and analyses of data sources presenting both traditional and advanced approaches It addresses the main bibliographic metrics and indexes such as the journal impact factor and the h index as well as altmetric and webometric indicators and science mapping techniques on different levels of aggregation and in the context of their value for the assessment of research performance as well as their impact on research policy and society It also presents and critically discusses various national research evaluation systems Complementing the sections reflecting on the science system the technology section includes multiple chapters that explain different aspects of patent statistics patent classification and database search methods to retrieve patent related information In addition it examines the relevance of trademarks and standards as additional technological indicators The Springer Handbook of Science and Technology Indicators is an invaluable resource for practitioners scientists and policy makers wanting a systematic and thorough analysis

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and reviewers form a triage in a publishing ecosystem which is witnessing a huge pressure due to changing evaluation criteria for career progression and grant funding. The major perspective of this book is to put forth the present day emerging ills of modern publishing system and sensitize the research fraternity be it young researchers or established scientists towards practicing good science and preserving spirit of scientific discoveries. The edited book consists of three parts viz Part I Authors Authorship and Scholarly Dissemination features ten chapters devoted to describe authorship issues and good publication practice plagiarism concerns preprints open access models conflicting interests rise of review papers writing book reviews and assessing faculty beyond metrics. Part II Editors Editorial Desks and Issues of Scientific Misconduct features eight chapters devoted to discuss on issues of editorial misconduct desk rejections paper mills letters to editors image duplication emerging ChatGPT in writing reviewing spaces citation cartels and retractions. Finally Part III Reviewers and Developing Evaluator's Eye features five chapters devoted to discuss peer review as an idea creating model paying peer reviewers training reviewers peer review manipulations and peer review in age of AI. All chapters in the book are written by expert contributors of the field that provides a systematic approach of understanding various challenges opportunities and ethical considerations of scientific publishing ecosystem. Most of the chapters have featured recent cases of scientific misconduct as examples to reflect scale of the problem. This book will serve as a reference to research practitioners in understanding assigning authorship on papers modern day publishing collaboration role of editors to serve journals in a holistic manner and ensuring fair peer review mechanisms.

Stabilizing and Empowering Women in Higher Education: Realigning, Recentering, and Rebuilding Schnackenberg, Heidi L., Simard, Denise A., 2023-09-29. *Stabilizing and Empowering Women in Higher Education: Realigning, Recentering, and Rebuilding* is a book that addresses the challenges faced by women leaders in higher education during the current pandemic. The book is written by experts in the field and draws on emerging evidence based practices and personal narratives to provide insights into strategies for emotional balance self care and wellbeing for women leaders. It explores the challenges faced by women leaders in higher education and offers solutions for their wellbeing including reframing and reinventing oneself during the pandemic. This volume is an essential read for women in leadership faculty administrators professional staff graduate students and researchers. It provides valuable information and perspectives on creating access for marginalized groups using roles as women leaders to create change and nurturing and empowering women in leadership. Overall it is a persuasive and powerful book that will help readers to realign recenter and rebuild in their personal and professional lives.

Introduction to Scientific Publishing Andreas Öchsner, 2013-06-28. This book is a very concise introduction to the basic knowledge of scientific publishing. It starts with the basics of writing a scientific paper and recalls the different types of scientific documents. It gives an overview on the major scientific publishing companies and different business models. The book also introduces to abstracting and indexing services and how they can be used for the evaluation of science scientists and institutions. Last but not least this short book faces the problem of plagiarism

and publication ethics Evidence in Medicine Iain K. Crombie, 2021-05-03 High quality evidence is the foundation for effective treatment in medicine As the vast amount of published medical evidence continues to grow concerns about the quality of many studies are increasing Evidence in Medicine is a much needed resource that addresses the medical misinformation mess by assessing the flaws in the research environment This authoritative text identifies and summarises the many factors that have produced the current problems in medical research including bias in randomised controlled trials questionable research practices falsified data manipulated findings and more This volume brings together the findings from meta research studies and systematic reviews to explore the quality of clinical trials and other medical research explaining the character and consequences of poor quality medical evidence using clear language and a wealth of supporting references The text suggests planning strategies to transform the research process and provides an extensive list of the actions that could be taken by researchers regulators and other key stakeholders to address defects in medical evidence This timely volume Enables readers to select reliable studies and recognise misleading research Highlights the main types of biased and wasted studies Discusses how incentives in the research environment influence the quality of evidence Identifies the problems researchers need to guard against in their work Describes the scale of poor quality research and explores why the problems are widespread Includes a summary of key findings on poor quality research and a listing of proposed initiatives to improve research evidence Contains extensive citations to references reviews commentaries and landmark studies Evidence in Medicine is required reading for all researchers who create evidence funders and publishers of medical research students who conduct their own research studies and healthcare practitioners wanting to deliver high quality evidence based care

Scientific Writing Jennifer Peat, Elizabeth Elliott, Louise Baur, Victoria Keena, 2013-07-01 This comprehensive and practical book covers the basics of grammar as well as the broad brush issues such as writing a grant application and selling to your potential audience The clear explanations are expanded and lightened with helpful examples and telling quotes from the giants of good writing These experienced writers and teachers make scientific writing enjoyable

Pioneering Research in Management Science in Engineering Jiuping Xu, 2025-04-27 Management Science and Engineering MSE plays an essential role in modern society In particular the emergence of efficient and innovative management tools has greatly influenced the progress of management science in engineering research Since research is critical to the dissemination of cutting edge methods journal evaluation and classification is essential for scientists researchers engineers practitioners and graduate students The goal of this book is to identify the major research categories in MSE and to evaluate and classify each MSE journal This book was compiled through the combined efforts of members of scientific committees many of whom are editors in chief of the most relevant journals academics researchers from different countries and members of professional societies It is aspirational for scientists researchers practitioners engineers graduate and advanced undergraduate students in the fields of engineering management civil engineering industrial engineering environmental

engineering energy engineering information engineering and agricultural engineering *A Concise Guide to Communication in Science and Engineering* David H. Foster, 2017 This guide offers a comprehensive but concise resource based on extensive carefully analysed examples from the published literature It enables students and researchers in science and engineering to write and present material to a professional modern standard efficiently and painlessly and with maximum impact **Recent Developments in Management Science in Engineering** Jiuping Xu, 2021-08-06

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Bibliometrics and Research Evaluation Yves Gingras, 2016-10-07 Why bibliometrics is useful for understanding the global dynamics of science but generate perverse effects when applied inappropriately in research evaluation and university rankings The research evaluation market is booming Ranking metrics h index and impact factors are reigning buzzwords Government and research administrators want to evaluate everything teachers professors training programs universities using quantitative indicators Among the tools used to measure research excellence bibliometrics aggregate data on publications and citations has become dominant Bibliometrics is hailed as an objective measure of research quality a quantitative measure more useful than subjective and intuitive evaluation methods such as peer review that have been used since scientific papers were first published in the seventeenth century In this book Yves Gingras offers a spirited argument against an unquestioning reliance on bibliometrics as an indicator of research quality Gingras shows that bibliometric rankings have no real scientific validity rarely measuring what they pretend to Although the study of publication and citation patterns at the proper scales can yield insights on the global dynamics of science over time ill defined quantitative indicators often generate perverse and unintended effects on the direction of research Moreover abuse of bibliometrics occurs when data is manipulated to boost rankings Gingras looks at the politics of evaluation and argues that using numbers can be a way to control scientists and diminish their autonomy in the evaluation process Proposing precise criteria for establishing the validity of indicators at a given scale of analysis Gingras questions why universities are so eager to let invalid indicators influence their research strategy

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