

The role of journal impact factor in chemistry research

Rosaria Ciriminna* and Mario Pagliaro*

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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Wani, Zahid Ashraf,Zainab, Tazeem



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Literature Of Analytical Chemistry Tibor Braun,Ernő Bujdosó,András Schubert,2019-06-04 First Published in 1987 this book offers a full comprehensive guide into the Literature on Analytical Chemistry Carefully compiled and filled with a vast repertoire of journals Papers and References this book serves as a useful reference for Students of Chemistry and other practitioners in their respective fields

The Web of Knowledge Eugene Garfield,2000 This new ASIST monograph is the first to comprehensively address the history theory and practical applications of citation analysis a field which has grown from Garfield s seed of an idea and to examine its impact on scholarly research forty years after its inception In bringing together the analyses insights and reflections of more than thirty five leading lights editors Cronin and Atkins have produced both a comprehensive survey of citation indexing and its applications and a beautifully realized tribute to Eugene Garfield and his vision in honor of his seventy fifth birthday

Exact Methods in the Study of Language and Text Peter Grzybek,Reinhard Köhler,2011-12-22 The collection contains more than 60 original papers and reflects current research topics in linguistics and text analysis Most of the papers present recent results of empirical quantitative investigations others focus on methodological issues whereas some of them are of a more theoretical systems theoretical semiotic character Finally a number of contributions form typical integrative deductive inductive studies The volume is a valuable source of information about the current state of the art in quantitative linguistic research presented by renowned representatives of the field

Index Medicus ,2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings

Scientific and Clinical Literature for the Decade of the Brain Tony Stankus,1993 Essays introduce the nine annotated bibliographies of literature in the neurosciences deemed to be important for researchers in the 1990s The topics include neuroanatomy psychobiology sensory perception brain imaging psychopharmacology and alcohol Also published as Science and Technology Libraries v 13 nos 3 4 1993 Annotation copyright by Book News Inc Portland OR

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Multidimensional Journal Evaluation Stefanie Haustein,2012-04-26 Scientific communication depends primarily on publishing in journals The most important indicator to determine the influence of a journal is the Impact Factor Since this factor only measures the average number of citations per article in a certain time window it can be argued that it does not reflect the actual value of a periodical This book defines five dimensions which build a framework for a multidimensional method of journal evaluation The author is winner of the Eugene Garfield Doctoral Dissertation Scholarship 2011

Computational Intelligence in Personalized Medicine Khin Wee Lai,Khairunnisa Hasikin,Yuanpeng Zhang,Yan Chai Hum,2022-11-17 Science Dynamics and Research Production Nikolay K. Vitanov,2016-08-01 This book deals with methods to evaluate scientific productivity In the book statistical methods deterministic and stochastic models and numerous indexes are discussed that will help the reader to understand the nonlinear science dynamics and to be able to develop or construct systems for appropriate evaluation of research productivity and management of research groups and organizations The dynamics of science structures and systems is complex and the evaluation of research productivity requires a combination of qualitative and quantitative methods and measures The book has three parts The first part is devoted to mathematical models describing the importance of science for economic growth and systems for the evaluation of research organizations of different size The second part contains descriptions and discussions of numerous indexes for the evaluation of the productivity of researchers and groups of researchers of different size up to the comparison of research productivities of research communities of nations Part three contains discussions of non Gaussian laws connected to scientific productivity and presents various deterministic and stochastic models of science dynamics and research productivity The book shows that many famous fat tail distributions as well as many deterministic and stochastic models and processes which are well known from physics theory of extreme events or population dynamics occur also in the description of dynamics of scientific systems and in the description of the characteristics of research productivity This is not a surprise as scientific systems are nonlinear open and dissipative

The Social Construction of the US Academic Elite Stephanie Beyer,2021-09-06 This book explores the stark stratification and struggles over classifications in US academia from a relational perspective looking beyond material differences and tracing its roots to symbolic power relations Based on a mixed methods study drawing on both interview and quantitative data it offers an account of the workings of academia shedding light on the structures that permit elite departments to define categories and impose legitimate scientific definitions to which the non elite must adhere With a focus on two scientific

disciplines the author shows how the translation of objective structures into mental structures establishes a relationship of power with regard to the definition of scientific categories thus determining access to resources and opportunities to participate and move within the academic field A study of the unequal intrusion of economic logics into the academic domain this volume will appeal to scholars policy makers and institutional leaders with interests in higher education inequality within science academic careers power relationships and competition in the academy

Scholarly Content and Its Evolution by Scientometric Indicators: Emerging Research and Opportunities Wani, Zahid Ashraf,Zainab, Tazeem,2018-08-03 The twenty first century brought unique developments in science and technology Research surged as individuals sought to uncover hidden knowledge leading to the introduction of research evaluation to ensure precise and fair research output and dissemination Scholarly Content and Its Evolution by Scientometric Indicators Emerging Research and Opportunities is a pivotal reference source that provides vital research on the application of research evaluation specifically through the lens of scientometrics While highlighting topics such as bibliometrics and the h index this publication explores a full range of research indicators available for the evaluation and assessment of scientific literature This book is ideally designed for scholars professors academicians researchers and graduate level students seeking current research on metric science

Essays of an Information Scientist Eugene Garfield,1989 **Seventh Conference of the International Society for Scientometrics and Informetrics** Universidad de Colima,1999 **Cumulated Index Medicus** ,1977 **Applied Study of Cultural Heritage and Clays** J. L. Pérez Rodríguez,2003 **Transdisciplinary Engineering Methods for Social Innovation of Industry 4.0** M. Peruzzini,M. Pellicciari,C. Bil,2018-09-14 The concept of concurrent engineering CE was first developed in the 1980s Now often referred to as transdisciplinary engineering it is based on the idea that different phases of a product life cycle should be conducted concurrently and initiated as early as possible within the Product Creation Process PCP The main goal of CE is to increase the efficiency and effectiveness of the PCP and reduce errors in later phases as well as incorporating considerations including environmental implications for the full lifecycle of the product It has become a substantive methodology in many industries and has also been adopted in the development of new services and service support This book presents the proceedings of the 25th ISPE Inc International Conference on Transdisciplinary Engineering held in Modena Italy in July 2018 This international conference attracts researchers industry experts students and government representatives interested in recent transdisciplinary engineering research advancements and applications The book contains 120 peer reviewed papers selected from 259 submissions from all continents of the world ranging from the theoretical and conceptual to papers addressing industrial best practice and is divided into 11 sections reflecting the themes addressed in the conference program and addressing topics as diverse as industry 4 0 and smart manufacturing human centered design modeling simulation and virtual design and knowledge and data management among others With an overview of the latest research results product creation processes and related methodologies this book will be of interest to

researchers design practitioners and educators alike

Lignans: Insights into Their Biosynthesis, Metabolic Engineering, Analytical Methods and Health Benefits Christophe F. Hano, Albena Todorova Dinkova-Kostova, Norman George Lewis, John Robert Cort, Laurence B. Davin, 2021-02-17

Library and Information Science Research in Asia-Oceania: Theory and Practice Du, Jia Tina, Zhu, Qinghua, Koronios, Andy, 2014-02-28

Historically the major Library and Information Science LIS research producing centers of the world have largely been the universities and information institutions of North America the United Kingdom and Europe This is changing with the growth of Asian economies universities and information industries Library and Information Science Research in Asia Oceania Theory and Practice presents evolving and emerging research and development in the field of library and information science LIS in diverse countries in Asia Oceania as the region continues to develop This book is intended as a useful resource for LIS researchers scholars students professionals and practitioners and is an appropriate text for courses in LIS In addition anyone interested in understanding the LIS field in the region will find this book a fascinating and enlightening read

The Strategic Marketing of Science, Technology, and Medical Journals Albert N. Greco, 2023-06-30 This book analyzes the various economic and marketing strategies utilized by the five major STM commercial scholarly journal publishers since 2000 This period has witnessed tremendous economic marketing and technological growth including the migration from a print only to a hybrid publishing format With this growth the industry has also seen the rise of open access publishing copyright challenges by websites such as Sci Hub the emergence of sharing platforms such as ResearchGate and Academia edu as well as the impact of Plan S on publishers universities and authors Given this incredible rate of change across the industry the author explores the diverse strategies and structures created by the largest STM publishers to decipher their effectiveness in addressing technological ethical and copyright issues Also he examines how mergers and acquisitions diversified operations such Elsevier s acquisition of Bepress SSRN and SCOPUS among other platforms Scrutinizing the different managerial marketing technology and economic financial strategies crafted by scholarly journal publishers between 2000 2020 this book offers a comprehensive assessment of the industry s attempts to identify understand cope with and minimize or defeat the herculean threats to its business model

Annual Review of Information Science & Technology Blaise Cronin, 2006-10 ARIST published annually since 1966 is a landmark publication within the information science community It surveys the landscape of information science and technology providing an analytical authoritative and accessible overview of recent trends and significant developments The range of topics varies considerably reflecting the dynamism of the discipline and the diversity of theoretical and applied perspectives While ARIST continues to cover key topics associated with classical information science e g bibliometrics information retrieval editor Blaise Cronin is selectively expanding its footprint in an effort to connect information science more tightly with cognate academic and professional communities

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