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**Recent Developments in Management Science in Engineering**-Jiuping Xu 2021-08-06

**Handbook of Research on Administration, Policy, and Leadership in Higher Education**-Mukerji, Siran 2016-09-27 The creation of a sustainable and accessible higher education systems is a pivotal goal in modern society. Adopting strategic frameworks and innovative techniques allows institutions to achieve this objective. The Handbook of Research on Administration, Policy, and Leadership in Higher Education is an authoritative reference source for the latest scholarly research on contemporary management issues in educational institutions and presents best practices to improve policies and retain effective governance. Addressing the current state of higher education at an international level, this book is ideally designed for academicians, educational administrators, researchers, and professionals.

**The Economics of Open Access**-Thomas Eger 2018-06-29 Addressing the recent debate on how the future of academic publishing might look in a purely digital environment, this book analyzes the experiences of researchers with, as well as attitudes towards, 'Open Access' (OA) publishing. Drawing on a unique, in-depth survey with more than 10,000 respondents from 25 countries, Thomas Eger and Marc Scheufen discuss their findings in the light of recent policy attempts which have been trying to foster OA, revealing considerable shortcomings and lack of knowledge on fundamental features of the academic publishing market.

**Quality in Pharmaceutical Education, Research and Practice (vision 2020)**-D Sreedhar 2016-10-01 The book discusses the topics related to quality in education and research. It begins with a topic on Good Science, Education, and Teaching. Next chapter on Total Quality Management in pharmacy education highlights the importance of quality pharmacy education. There are focused chapters emphasizing the importance of quality education in pharmaceuticals, medicinal chemistry, pharmaceutical biotechnology, pharmaceutical services, and pharmacognosy. The book includes a brief note on scope and potential in pharmacovigilance and quality of pharmaceutical sciences journals.

**A Concise Guide to Communication in Science and Engineering**-David H. Foster 2017-10-27 Success in scientific and engineering research depends on effective writing and presentation. The purpose of this guide is to help the reader achieve that goal. It enables students and researchers to write and present material to a professional modern standard, efficiently and painlessly, and with maximum impact. The approach is not prescriptive. Rather, the emphasis is on a logical approach to communication, informed by what needs to be achieved, what works in practice, and what interferes with success. Over 400 examples of good and bad writing and graphing are presented. Each is from a published research article and is accompanied by analysis, comment, and correction where needed. Journal reviewers' critiques of submitted manuscripts are included to illustrate common pitfalls. Above all, this is a "how-to" book, comprehensive but concise, suitable for continuous study or quick reference. Checklists at the end of each chapter enable the reader to test the readiness of a dissertation, journal submission, or conference presentation for assessment or review. Although oriented towards engineering and the physical and life sciences, it is also relevant to other areas, including behavioural and clinical sciences and medicine.

**Emerging Methods and Paradigms in Scholarship and Education Research**-Ling, Lorraine 2019-08-30 There is a renaissance in the use of the term "scholarship," as it is being used to define areas of academic endeavour, describe academic work and achievements, and measure the quality of higher education. Although all academicians are required to engage in scholarship, it is difficult to navigate as there is a misunderstanding of this concept as new methods and approaches emerge. Emerging Methods and Paradigms in Scholarship and Education Research is an essential academic book that is designed to explain the areas of scholarship and their contemporary relationship to key components of academic work: research, teaching, service, and engagement. The chapter authors explore conceptions of scholarship, paradigms, and methods that fit a variety of contexts and needs. Highlighting a wide range of approaches from scientific realism and neo-positivism to interpretative, transformative, and pragmatic educational strategies and policy, this book is ideal for researchers, teachers, educational leaders, academicians, educational policymakers, and quality assurance agencies.

**Managing Scientific Information and Research Data**-Svetla Baykoucheva 2015-07-14 Innovative technologies are changing the way research is performed, preserved, and communicated. Managing Scientific Information and Research Data explores how these technologies are used and provides detailed analysis of the approaches and tools developed to manage scientific information and data. Following an introduction, the book is then divided into 15 chapters discussing the changes in scientific communication; new models of publishing and peer review; ethics in scientific communication; preservation of data; discovery tools; discipline-specific practices of researchers for gathering and using scientific information; academic social networks; bibliographic management tools; information literacy and the information needs of students and researchers; the involvement of academic libraries in eScience and the new opportunities it presents to librarians; and interviews with experts in scientific information and publishing. Promotes innovative technologies for creating, sharing and managing scientific content Presents new models of scientific publishing, peer review, and dissemination of information Serves as a practical guide for researchers, students, and librarians on how to discover, filter, and manage scientific information Advocates for the adoption of unique author identifiers such as ORCID and ResearcherID Looks into new tools that make scientific information easy to discover and manage Shows what eScience is and why it is becoming a priority for academic libraries Demonstrates how Electronic Laboratory Notebooks can be used to record, store, share, and manage research data Shows how social media and the new area of Altmetrics increase researchers' visibility and measure attention to their research Directs to sources for datasets Provides directions on choosing and using bibliographic management tools Critically examines the metrics used to evaluate research impact Aids strategic thinking and informs decision making

**The Palgrave Handbook of Volunteering, Civic Participation, and Nonprofit Associations**-David Horton Smith 2017-01-18 Written by over 200 leading experts from over seventy countries, this handbook provides a comprehensive, state-of-the-art overview of the latest theory and research on volunteering, civic participation and nonprofit membership associations. The first handbook on the subject to be truly multinational and interdisciplinary in its authorship, it represents a major milestone for the discipline. Each chapter follows a rigorous theoretical structure examining definitions, historical background, key analytical issues, usable knowledge, and future trends and required research. The nine parts of the handbook cover the historical and conceptual background of the discipline; special types of volunteering; the major activity areas of volunteering and associations; influences on volunteering and association participation; the internal structures of associations; the internal processes of associations; the external environments of associations; the scope and impacts of volunteering and associations; and conclusions and future prospects. This handbook provides an essential reference work for third-sector research and practice, including a valuable glossary of terms defining over eighty key concepts. Sponsored by the International Council of Voluntarism, Civil Society, and Social Economy Researcher Associations (ICSERA; www.icsera.org), it will appeal to scholars, policymakers and practitioners, and helps to define the emergent academic discipline of voluntaristics.

**How to Publish in Biomedicine**-John Dixon 2016-11-03 Getting published is crucial for success in biomedicine. Whether you are a beginner or an experienced writer, you will find this book has fresh, practical tips on everyday issues. Based on the authors' successful training courses and extensive experience of healthcare communications, this book will answer your questions and help you to avoid the most frequent problems and pitfalls. The book is designed to be very practical, and to be used when you are actually writing. It does not need to be read straight through from beginning to end before you get started. Instead, just dip into any chapter and you will find a range of tips relevant to the material you are working on right now.

**Conducting the DNP Project**-Denise Korniewicz, PhD, RN, FAAN 2019-09-15 A "how-to" approach to navigating the strenuous path from DNP plan to completed project. You completed your DNP proposal and have approval to proceed: What's next? How do you move from proposal phase to conduct and complete your project? This text is the first to discuss the practical steps to implement and complete the project and will help DNP students to systematically transition from plan to action. Written by an author with extensive experience helping students with their quality improvement projects, the text educates readers on the core components of conducting the clinical scholarly project. With a focus on working effectively with clinical staff, the book addresses IRB approval; ethics; working with human subjects; project planning; collecting, analyzing, and interpreting clinical data; disseminating findings; and how to complete the project in a timely manner. It discusses interprofessional collaboration, team building, and how to debrief project participants. Examples of successful scholarly projects and recommendations for project improvement offer additional guidance, along with consideration of common problems that many students face and how to resolve them. Objectives and review questions are provided in selected chapters along with a robust Instructors Guide containing additional active learning strategies for each chapter. Key Features: Delivers practical, step-by-step strategies for implementing and completing the DNP project Focuses on finding and effectively communicating with team members Explains how to collect, analyze, and interpret clinical data Describes how to establish protocol for working with patients Offers chapter objectives, review questions, and case studies demonstrating major content components

**The Engaged Scholar**-Andrew J. Hoffman 2021-03-02 Society and democracy are ever threatened by the fall of fact. Rigorous analysis of facts, the hard boundary between truth and opinion, and fidelity to reputable sources of factual information are all in alarming decline. A 2018 report published by the RAND Corporation labeled this problem "truth decay" and Andrew J. Hoffman lays the challenge of fixing it at the door of the academy. But, as he points out, academia is prevented from carrying this out due to its own existential crisis—a crisis of relevance. Scholarship rarely moves very far beyond the walls of the academy and is certainly not accessing the primarily civic spaces it needs to reach in order to mitigate trust corruption. In this brief but compelling book, Hoffman draws upon existing literature and personal experience to bring attention to the problem of academic insularity—where it comes from and where, if left to grow unchecked, it will go—and argues for the emergence of a more publicly and politically engaged scholar. This book is a call to make that path toward public engagement more acceptable and legitimate for those who do it; to enlarge the tent to be inclusive of multiple ways that one enacts the role of academic scholar in today's world.

**Collaboration in Designing a Pedagogical Approach in Information Literacy**-Ane Landay 2019-01-01 This Open Access book combines expertise in information literacy with expertise in education and teaching to share tips and tricks for the development of good information literacy teaching and training in universities and libraries. It draws on research, knowledge and pedagogical practice from academia, to teach students how to sift through information to be able to distinguish the important and correct from the unusable. It discusses basic concepts and models of information literacy, as well as strategies for accessing, locating and retrieving information and methods suitable for the assessment and management of information. The book explains many concepts connected to information literacy and discusses pedagogical issues with a view to supporting the practitioner. Each chapter examines one aspect of information literacy, discusses the pedagogical challenges involved and provides suggestions for best practice.

**Springer Handbook of Science and Technology Indicators**-Wolfgang Glänzel 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 of the potential and limitations of the various approaches to assess research and research performance.

**Reporting and Publishing Research in the Biomedical Sciences**-Peush Sabni 2018-02-25 This book eases the task of converting your research work into a manuscript, and covers the recent developments in publishing that often stump the budding researchers. Few researchers in the biomedical sciences are trained in the essential skills of reporting their results. They seek help in writing a paper that will be acceptable for publication in the 'right' journal, and in presenting their results 'effectively' at a meeting. Besides covering the basic aspects of preparing manuscripts for publication, this book discusses best practices and issues relating to the publication of biomedical research. These include topics such as peer-review, authorship, plagiarism, conflicts of interest, publication misconduct, electronic publishing and open-access journals. The editors have more than two decades of experience in conducting workshops on writing scientific papers. They have brought together the expertise of 29 authors from seven countries to produce this one-stop guide to publishing research in biomedical sciences. This book is meant for young researchers who are beginning their careers and wish to hone their skills in understanding the rigors of research writing and publishing.

**Handbook of Ratings**-Alexander Karminsky 2016-08-04 This handbook presents a systematic overview of approaches to, diversity, and problems involved in interdisciplinary rating methodologies. Historically, the purpose of ratings is to achieve information transparency regarding a given body's activities, whether in the field of finance, banking, or sports for example. This book focuses on commonly used rating methods in three important fields: finance, sports, and the social sector. In the world of finance, investment decisions are largely shaped by how positively or negatively economies or financial instruments are rated. Ratings have thus become a basis of trust for investors. Similarly, sports evaluation and funding are largely based on core ratings. From local communities to groups of nations, public investment and funding are also dependent on how these bodies are continuously rated against expected performance targets. As such, ratings need to reflect the consensus of all stakeholders on selected aspects of the work and how to evaluate their success. The public should also have the opportunity to participate in this process. The authors examine current rating approaches from a variety of proposals that are closest to the public consensus, analyzing the rating models and summarizing the methods of their construction. This handbook offers a valuable reference guide for managers, analysts, economists, business informatics specialists, and researchers alike.

**Handbook on China and Globalization**-Huiyao Wang 2019 An excellent guide for understanding the trends, challenges and opportunities facing China through globalization, this Handbook answers the pertinent questions regarding the globalization process and China's influence on the world.

**CeDEM15**-Parycek, Peter

**Handbook of University and Professional Careers in School Psychology**-Randy G. Floyd 2020-12-30 The Handbook of University and Professional Careers in School Psychology is a comprehensive resource for school psychologists in doctoral training or currently appointed to positions in universities and other clinical professional settings. Across 30 unique chapters, experts in the field offer diverse, experienced perspectives on accessing resources, building skills, navigating difficult experiences, and flourishing in all major facets of the profession. The book places special emphasis on development throughout the career lifespan and the empowerment of women, people of color, and scholars from outside of the United States.

**Altmetrics for Information Professionals**-Kim Johan Holmberg 2015-09-03 The goal of any research assessment is to evaluate the value or quality of the research in comparison to other research. As quality is highly subjective and difficult to measure, citations are used as a proxy. Citations are an important part of scholarly communication and a significant component of research evaluation, with the assumption being that highly cited work has influenced the work of many other researchers and hence it is more valuable. Recently we have seen new online data sources being researched for this purpose and disruptive ideas with the power to change research assessment, and perhaps even science as a whole, have been born. Altmetrics is the new research area that investigates the potential of these new data source as indicators of the impact that research has made on the scientific community and beyond, and thus possibly also as indicators of the societal impact of research. This book will present some of these new data sources, findings from earlier altmetrics research, and the disruptive ideas that may radically change scholarly communication. Presents some of the key ideas and innovations in earlier research that have been driving the evolution from bibliometrics to webometrics, and with the advent of social media to altmetrics Discusses the shortcomings and pitfalls of bibliometrics in research evaluation and the potential of altmetrics to overcome some of these shortcomings Presents some of the most important data sources of altmetrics, the aggregators, and the different stakeholders Reviews current research about altmetrics and discusses possible future trends Presents a way to measure and aggregate altmetrics according to the level of impact or type of impact they represent

**Rethinking Interdisciplinarity across the Social Sciences and Neurosciences**-F. Callard 2015-12-30 This book offers a provocative account of interdisciplinary research across the neurosciences, social sciences and humanities. Rooting itself in the authors' own experiences, the book establishes a radical agenda for collaboration across these disciplines. This book is open access under a CC-BY license.

**Key Methods in Geography**-Nicholas Clifford 2016-05-17 "Practical, accessible, careful and interesting, this...revised volume brings the subject up-to-date and explains, in bite sized chunks, the 'how's' and 'why's' of modern day geographical study...[It] brings together physical and human approaches again in a new synthesis." —Danny Dorling, Professor of Geography, University of Oxford Key Methods in Geography is the perfect introductory companion, providing an overview of qualitative and quantitative methods for human and physical geography. This Third Edition Features: 12 new chapters representing emerging themes including online, virtual and digital geographical methods Real-life case study examples Summaries and exercises for each chapter Free online access to full text of Progress in Human Geography and Progress in Physical Geography Progress Reports The teaching of research methods is integral to all geography courses: Key Methods in Geography, Third Edition explains all of the key methods with which geography undergraduates must be conversant.

**Guidance in Author Instructions of Hematology and Oncology Journals**-Ingrid Töws 2017

**Recent Developments in Polymer Macro, Micro and Nano Blends**-P. M. Visakh 2016-08-24 Recent Developments in Polymer Macro, Micro and Nano Blends: Preparation and Characterisation discusses the various types of techniques that are currently used for the characterization of polymer-based macro, micro, and nano blends. It summarizes recent technical research accomplishments, emphasizing a broad range of characterization methods. In addition, the book discusses preparation methods and applications for various types of polymer-based macro, micro, and nano blends. Chapters include thermoplastic-based polymer & nano blends, applications of rubber based and thermoplastic blends, micro/nanostructures polymer blends containing block copolymers, advances in polymer-inorganic hybrids as membrane materials, synthesis of polymer/inorganic hybrids through heterophase polymerizations, nanoporous polymer foams from nanostructured polymer blends, and natural polymeric biodegradable nano blends for protein delivery. Describes the techniques pertaining to a kind (or small number) of blends, showing specific examples of their applications Covers micro, macro, and nano polymer blends Contains contributions from leading experts in the field

**An Introduction to Bibliometrics**-Rafael Ball 2017-09-18 An Introduction to Bibliometrics: New Development and Trends provides a comprehensible, readable and easy to read introduction to bibliometrics. Importantly, the book surveys the latest developments of bibliometrics (such as altmetrics, etc.) and how the field is likely to change over the next decade. In the literature, bibliometrics is generally discussed from one of two perspectives: (1) Purely mathematical/statistical or (2) Its sociological implications. Both approaches are very far from how most users want to apply bibliometrics. This book fills that need by providing tactics on how bibliometrics can be applied to their sphere of scientific activity. Provides readers with an understanding of bibliometric indicators, including their background and significance, classification in quantitative performance, and an evaluation of science and research Includes an overview of the most important indicators, their areas of application, and where and when they should and should not be used Discusses future trends in the quantitative performance evaluation of scientific research

**Methodologies in Peace Psychology**-Diane Bretherton 2015-09-03 This volume looks at research methods through the lens of peace studies and peace values. Apart from reviewing established methods from peace psychology, it presents some innovative ideas for conducting research in the area of peace psychology. Many of these methods are drawn from the field, from activities used by active peace practitioners. A critical component of this volume is its core argument that peace research should be conducted by peaceful means, and should model peaceful processes. Organized thematically, the volume begins with a review of the established best practices in peace psychology research methodology, including methods for qualitative research, for quantitative research, and participative action networks. In doing so, it also points to some of the limitations of working for peace within the tradition of a single discipline and to the need to expand psychology methodology, to methodologies. Therefore, the second half of the volume proceeds to explore the realm of innovative, relatively unorthodox research methods, such as participatory and workshop methods, the creative arts, and sports for research purposes. The use of new advances in information technology to conduct peaceful research are also discussed. The concluding chapters synthesize key issues from the previous chapters, and links peace psychology with ideas and implementation of research designs and practices. Finally, it discusses the nature of academic knowledge, and more specifically, academic knowledge in peace psychology, and where that fits into the mission to build a more peaceful world. Overall this book aims to provide peace psychologists with an array of possibilities and best practices for approaching their research. Many researchers find the experience of doing research a somewhat lonely, if not isolating, experience. Methodologies in Peace Psychology: Peace Research by Peaceful Means aims to alleviate this feeling as the use of these more innovative methods leads to a closer engagement with the community and a much more social experience of research. This volume is a useful tool for both new and experienced researchers because it provides leads for idealistic young researchers who want their work to make a difference, in addition to encouraging more reflection and analysis for experienced peace psychologists.

**Theories of Informetrics and Scholarly Communication**-Cassidy R. Sugimoto 2016-02-22 Scientometrics have become an essential element in the practice and evaluation of science and research, including both the evaluation of individuals and national assessment exercises. Yet, researchers and practitioners in this field have lacked clear theories to guide their work. As early as 1981, then doctoral student Blaise Cronin published "The need for a theory of citing" —a call to arms for the fledgling scientometric community to produce foundational theories upon which the work of the field could be based. More than three decades later, the time has come to reach out the field again and ask how they have responded to this call. This book compiles the foundational theories that guide informetrics and scholarly communication research. It is a much needed compilation by leading scholars in the field that gathers together the theories that guide our understanding of authorship, citing, and impact.

**Writing Education Research**-Joy Egbert 2015-02-11 For both new academics and those with some experience, writing articles of publishable quality can be particularly challenging. Developing the necessary skill set requires useful information, hard work, and the type of direction infrequently offered in research methods courses, leaving researchers to piece together resources on their own. This book addresses this critical topic in a format that is easy to teach and understand. It is a practical volume that teaches researchers how to identify their audience, clearly state the nature of their work, provide exceptional literature reviews, cite appropriately, and explicate their research. Beginning each chapter with reviewer comments, Writing Education Research is designed to help scholars understand both how to write effective research reports and how to get published. Practice exercises and resource lists in each chapter offer easy-to-access information about the review and publication process. A perfect accompaniment to standard research courses, this practical book demystifies the writing process for anyone looking to publish articles, chapters, or papers in education.

**The Economics of Trade Unions**-Hristos Doucouliagos 2017-02-17 Richard B. Freeman and James L. Medoff's now classic 1984 book What Do Unions Do? stimulated an enormous theoretical and empirical literature on the economic impact of trade unions. Trade unions continue to be a significant feature of many labor markets, particularly in developing countries, and issues of labor market regulations and labor institutions remain critically important to researchers and policy makers. The relations between unions and management can range between cooperation and conflict; unions have powerful offsetting wage and non-wage effects that economists and other social scientists have long debated. Do the benefits of unionism exceed the costs to the economy and society writ large, or do the costs exceed the benefits? The Economics of Trade Unions offers the first comprehensive review, analysis and evaluation of the empirical literature on the microeconomic effects of trade unions using the tools of meta-regression analysis to identify and quantify the economic impact of trade unions, as well as to correct research design faults, the effects of selection bias and model misspecification. This volume makes use of a unique dataset of hundreds of empirical studies and their reported estimates of the microeconomic impact of trade unions. Written by three authors who have been at the forefront of this research field (including the co-author of the original volume, What Do Unions Do?), this book offers an overview of a subject that is of huge importance to scholars of labor economics, industrial and employee relations, and human resource management, as well as those with an interest in meta-analysis.

**Career Skills for Doctors**-Charalambos Panayiotou Charalambous 2015-01-08 This book presents some well known "pearls" as to how to improve your day to day workplace performance, be efficiently productive, be an inherent part of the team, how to shine and impress. At the same time advice is given as to how to prepare for postgraduate exams, develop essential technical skills and successfully participate in research. This generic guidance can be of use for those aspiring in becoming a generalist or subspecialty doctor and will be of value in whichever part of the world you end up practicing in.

**Encyclopedia of Information Science and Technology, Fourth Edition**-Khosrow-Pour, D.B.A., Mehdi 2017-06-20 In recent years, our world has experienced a profound shift and progression in available computing and knowledge sharing innovations. These emerging advancements have developed at a rapid pace, disseminating into and affecting numerous aspects of contemporary society. This has created a pivotal need for an innovative compendium encompassing the latest trends, concepts, and issues surrounding this relevant discipline area. During the past 15 years, the Encyclopedia of Information Science and Technology has become recognized as one of the landmark sources of the latest knowledge and discoveries in this discipline. The Encyclopedia of Information Science and Technology, Fourth Edition is a 10-volume set which includes 705 original and previously unpublished research articles covering a full range of perspectives, applications, and techniques contributed by thousands of experts and researchers from around the globe. This authoritative encyclopedia is an all-encompassing, well-established reference source that is ideally designed to disseminate the most forward-thinking and diverse research findings. With critical perspectives on the impact of information science management and new technologies in modern settings, including but not limited to computer science, education, healthcare, government, engineering, business, and natural and physical sciences, it is a pivotal and relevant source of knowledge that will benefit every professional within the field of information science and technology and is an invaluable addition to every academic and corporate library.

**Altmetrics**-Andy Tattersall 2016-06-21 This book gives an overview of altmetrics, its tools and how to implement them successfully to boost and measure research outputs. New methods of scholarly communication and dissemination of information are having a huge impact on how academics and researchers build profiles and share research. This groundbreaking and highly practical guide looks at the role that library and information professionals can play in facilitating these new ways of working and demonstrating impact and influence. Altmetrics focuses on research artefact level metrics that are not exclusive to traditional journal papers but also extend to book chapters, posters and data sets, among other items. This book explains the theory behind altmetrics, including how it came about, why it can help academics and where it sits amongst current measurements of impact. Editor Andy Tattersall draws on the expertise of leading altmetric innovators and practitioners, with chapters from Euan Adie, the founder of Altmetric.com; William Gunn, the Head of Academic Outreach at Mendeley and Ben Showers, author of the bestselling Facet title Library Analytics and Metrics. Readership: Altmetrics will empower library and information professionals working in higher education, researchers, academics and higher education leaders and strategists to develop the skills and knowledge needed to introduce and support altmetrics within their own institutions.

**Scientific Integrity and Ethics in the Geosciences**-Linda C. Gundersen 2017-10-17 Science is built on trust. The assumption is that scientists will conduct their work with integrity, honesty, and a strict adherence to scientific protocols. Written by geoscientists for geoscientists, Scientific Integrity and Ethics in the Geosciences acquaints readers with the fundamental principles of scientific ethics and shows how they apply to everyday work in the classroom, laboratory, and field. Resources are provided throughout to help discuss and implement principles of scientific integrity and ethics. Volume highlights include: Examples of international and national codes and policies Exploration of the role of professional societies in scientific integrity and ethics References to scientific integrity and ethics in publications and research data Discussion of science integrity, ethics, and geoehtics in education Extensive coverage of data applications Scientific Integrity and Ethics in the Geosciences is a valuable resource for students, faculty, instructors, and scientists in the geosciences and beyond. It is also useful for geoscientists working in industry, government, and policymaking. Read an interview with the editors to find out more: <https://eors.org/editors-vox/ethics-crucial-for-the-future-of-the-geosciences>

**A Guide to the Scientific Career**-Mohammadali M. Shoja 2019-10-04 A concise, easy-to-read source of essential tips and skills for writing research papers and career management In order to be truly successful in the biomedical professions, one must have excellent communication skills and networking abilities. Of equal importance is the possession of sufficient clinical knowledge, as well as a proficiency in conducting research and writing scientific papers. This unique and important book provides medical students and residents with the most commonly encountered topics in the academic and professional lifestyle, teaching them all of the practical nuances that are often only learned through experience. Written by a team of experienced professionals to help guide younger researchers, A Guide to the Scientific Career: Virtues, Communication, Research and Academic Writing features ten sections composed of seventy-four chapters that cover: qualities of research scientists; career satisfaction and its determinants; publishing in academic medicine; assessing a researcher's scientific productivity and scholarly impact; manners in academics; communication skills; essence of collaborative research; dealing with manipulative people; writing and scientific misconduct; ethical and legal aspects; plagiarism; research regulations, proposals, grants, and practice; publication and resources; tips on writing every type of paper and report; and much more. An easy-to-read source of essential tips and skills for scientific research Emphasizes good communication skills, sound clinical judgment, knowledge of research methodology, and good writing skills Offers comprehensive guidelines that address every aspect of the medical student/resident academic and professional lifestyle Combines elements of a career-management guide and publication guide in one comprehensive reference source Includes selected personal stories by great researchers, fascinating writers, inspiring mentors, and extraordinary clinicians/scientists A Guide to the Scientific Career: Virtues, Communication, Research and Academic Writing is an excellent interdisciplinary text that will appeal to all medical students and scientists who seek to improve their writing and communication skills in order to make the most of their chosen career.

**The Secret Life of Science**-Jeremy J. Baumberg 2018-05-15 A revealing and provocative look at the current state of global science We take the advance of science as given. But how does science really work? Is it truly as healthy as we tend to think? How does the system itself shape what scientists do? The Secret Life of Science takes a clear-eyed and provocative look at the current state of global science, shedding light on a cutthroat and tightly tensioned enterprise that even scientists themselves often don't fully understand. The Secret Life of Science is a dispatch from the front lines of modern science. It paints a startling picture of a complex scientific ecosystem that has become the most competitive free-market environment on the planet. It reveals how big this ecosystem really is, what motivates its participants, and who reaps the rewards. Are there too few scientists in the world or too many? Are some fields expanding at the expense of others? What science is shared or published, and who determines what the public gets to hear about? What is the future of science? Answering these and other questions, this controversial book explains why globalization is not necessarily good for science, nor is the continued growth in the number of scientists. It portrays a scientific community engaged

in a race for limited resources that determines whether careers are lost or won, whose research visions become the mainstream, and whose vested interests end up in control. The Secret Life of Science explains why this hypercompetitive environment is stifling the diversity of research and the resiliency of science itself, and why new ideas are needed to ensure that the scientific enterprise remains healthy and vibrant.

**Research Anthology on Decision Support Systems and Decision Management in Healthcare, Business, and Engineering**-Management Association, Information Resources 2021-05-28 Decision support systems (DSS) are widely touted for their effectiveness in aiding decision making, particularly across a wide and diverse range of industries including healthcare, business, and engineering applications. The concepts, principles, and theories of enhanced decision making are essential points of research as well as the exact methods, tools, and technologies being implemented in these industries. From both a standpoint of DSS interfaces, namely the design and development of these technologies, along with the implementations, including experiences and utilization of these tools, one can get a better sense of how exactly DSS has changed the face of decision making and management in multi-industry applications. Furthermore, the evaluation of the impact of these technologies is essential in moving forward in the future. The Research Anthology on Decision Support Systems and Decision Management in Healthcare, Business, and Engineering explores how decision support systems have been developed and implemented across diverse industries through perspectives on the technology, the utilizations of these tools, and from a decision management standpoint. The chapters will cover not only the interfaces, implementations, and functionality of these tools, but also the overall impacts they have had on the specific industries mentioned. This book also evaluates the effectiveness along with benefits and challenges of using DSS as well as the outlook for the future. This book is ideal for decision makers, IT consultants and specialists, software developers, design professionals, academicians, policymakers, researchers, professionals, and students interested in how DSS is being used in different industries.

**A STUDY OF ACADEMIC ACHIEVEMENT IN RELATION TO PARENTAL BEHAVIOUR, SCHOOL ENVIRONMENT AND ADJUSTMENT OF SECONDARY SCHOOL TRIBAL STUDENTS IN ASSAM**-Dr. Anindita Das

**Data Management, Analytics and Innovation**-Valentina Emilia Balas 2018-09-07 The volume on Data Management, Analytics and Innovations presents the latest high-quality technical contributions and research results in the areas of data management and smart computing, big data management, artificial intelligence and data analytics along with advances in network technologies. It deals with the state-of-the-art topics and provides challenges and solutions for future development. Original, unpublished research work highlighting specific research domains from all viewpoints are contributed from scientists throughout the globe. This volume is mainly designed for professional audience, composed of researchers and practitioners in academia and industry.

**Criteria Air Pollutants and their Impact on Environmental Health**-Pallavi Saxena 2019-11-14 Air pollution is a global hazard. Majority of the world's population is affected by air pollution. Contamination of air is no more an only an atmospheric problem but now has become a health concern too. Under the Clean Air Act of 1971, a

set of air pollutants are designated as criteria pollutants. These are suspected to be strongly harming the public health and the environment as compared to other primary and secondary pollutants. Globally, this category of air pollutants has been given less attention, only few studies have been reported in this area. This book begins with a short background on criteria air pollutants and their sources, sinks and chemistry. The chapters explore the detailed nature of primary pollutants criteria pollutants such as nitrogen dioxide, sulphur dioxide, carbon monoxide, particulate matter and lead. Their reaction mechanisms, climate change potency, environmental health effects on plants and human life are discussed. The book also covers secondary pollutants such as ozone. The book discusses ozone chemistry and its environmental health effects. This book act as a valuable tool for students in Environmental Science, Biological Science and Agriculture, as well as environmental consultants and professionals involved in air quality research and the application of air quality guidelines and advice.

**Policy Analysis And Modeling Of The Global Economy: A Festschrift Celebrating Thomas Hertel**-Peter Dixon 2020-12-14 This volume honors the extraordinary career of Thomas Hertel. It also celebrates the 25th anniversary of the founding of the Global Trade Analysis Project (GTAP) by Prof. Hertel. All of those contributing to this volume, including Prof. Hertel's students and colleagues, have benefitted in some ways from the selfless professional generosity and dedication to scientific public goods that have been hallmarks of his career. The book examines the history of the GTAP project, the scientific contributions of Prof. Hertel, and the general application of computational modeling to global economic policy analysis. The applications in the volume, reflecting the broad contributions made by the GTAP community to global policy analysis, range from the impact of globalization on employment to the sustainability impacts of economic integration.

**American Science**-Barbara Ruben Migeon 2016-09-28 In this insiders account of university science in America, Barbara Migeon focuses on how an influx of new technologies empowered scientists to make groundbreaking discoveries on the nature of hereditary diseases. She begins her story with an account of how she began her research career before delving into a broader discussion of what scientists do, what they must deal with, and the changing face of biomedical science over the last half century. This is a fascinating, insightful and thought-provoking book, beautifully written by an excellent scientist, a pioneering female in a strongly male-centric field. Her personal history of this remarkable era of biomedical science is a must read for anyone males, females, scientists and non-scientists curious about the process of scientific discovery and progress toward gender equity. Her account shows how science is shaped by deep commitment and insights, complex human interactions, and public policy. Barbara Sollner-Webb, Professor Emerita, Department of Biological Chemistry, The Johns Hopkins University I was captivated by Migeons ability to synthesize the personal, political, scientific, and academic strands of her life over the past half-century. To her credit, this historian speaks forthrightly; while her research clearly has been a source of deep joy, she also exposes the institutional problems (including sexism). Her inclusion of selected material from a personal journal she kept over the years is a welcome addition to a book that offers a fresh perspective to scientists as well as non-scientists, men as well as women. Evelyn Torton Beck, Professor Emerita, Womens Studies, University of Maryland