

IMPACT FACTOR JOURNAL OF THE ELECTROCHEMICAL SOCIETY

IMPACT FACTOR JOURNAL OF THE ELECTROCHEMICAL SOCIETY IS A CRITICAL METRIC USED BY RESEARCHERS, ACADEMICS, AND INSTITUTIONS TO EVALUATE THE SIGNIFICANCE AND INFLUENCE OF SCHOLARLY WORK PUBLISHED WITHIN THIS PRESTIGIOUS JOURNAL. AS A LEADING PUBLICATION IN THE FIELD OF ELECTROCHEMISTRY AND RELATED DISCIPLINES, THE JOURNAL OF THE ELECTROCHEMICAL SOCIETY (JES) HOLDS A PROMINENT POSITION IN DISSEMINATING CUTTING-EDGE RESEARCH, TECHNOLOGICAL ADVANCEMENTS, AND THEORETICAL INSIGHTS. UNDERSTANDING THE IMPACT FACTOR OF THIS JOURNAL NOT ONLY HELPS AUTHORS DECIDE WHERE TO PUBLISH THEIR RESEARCH BUT ALSO AIDS READERS IN IDENTIFYING HIGH-QUALITY AND INFLUENTIAL STUDIES. THIS ARTICLE EXPLORES THE CONCEPT OF THE IMPACT FACTOR, ITS CALCULATION, THE CURRENT STANDING OF THE JOURNAL OF THE ELECTROCHEMICAL SOCIETY, AND THE FACTORS INFLUENCING ITS VALUE. ADDITIONALLY, THE ARTICLE EXAMINES HOW THE IMPACT FACTOR AFFECTS THE JOURNAL'S REPUTATION AND THE BROADER ELECTROCHEMICAL RESEARCH COMMUNITY. THE FOLLOWING SECTIONS PROVIDE AN IN-DEPTH ANALYSIS AND VALUABLE INFORMATION ABOUT THE IMPACT FACTOR JOURNAL OF THE ELECTROCHEMICAL SOCIETY.

- UNDERSTANDING THE IMPACT FACTOR
- OVERVIEW OF THE JOURNAL OF THE ELECTROCHEMICAL SOCIETY
- CURRENT IMPACT FACTOR OF THE JOURNAL OF THE ELECTROCHEMICAL SOCIETY
- FACTORS INFLUENCING THE JOURNAL'S IMPACT FACTOR
- SIGNIFICANCE OF THE IMPACT FACTOR IN ELECTROCHEMICAL RESEARCH
- LIMITATIONS AND CRITICISMS OF THE IMPACT FACTOR

UNDERSTANDING THE IMPACT FACTOR

THE IMPACT FACTOR IS A WIDELY RECOGNIZED QUANTITATIVE MEASURE REFLECTING THE AVERAGE NUMBER OF CITATIONS TO RECENT ARTICLES PUBLISHED IN A SPECIFIC JOURNAL. IT SERVES AS AN INDICATOR OF THE JOURNAL'S RELATIVE IMPORTANCE WITHIN ITS FIELD. THE IMPACT FACTOR IS CALCULATED ANNUALLY BY ORGANIZATIONS SUCH AS CLARIVATE ANALYTICS THROUGH THEIR JOURNAL CITATION REPORTS (JCR).

CALCULATION METHODOLOGY

THE IMPACT FACTOR OF A JOURNAL FOR A GIVEN YEAR IS CALCULATED BY DIVIDING THE NUMBER OF CITATIONS IN THAT YEAR TO ARTICLES PUBLISHED IN THE PREVIOUS TWO YEARS BY THE TOTAL NUMBER OF "CITABLE ITEMS" PUBLISHED IN THOSE TWO YEARS. CITABLE ITEMS TYPICALLY INCLUDE RESEARCH ARTICLES, REVIEWS, AND PROCEEDINGS PAPERS BUT EXCLUDE EDITORIAL MATERIALS AND LETTERS.

PURPOSE AND USAGE

THE IMPACT FACTOR IS USED BY RESEARCHERS TO IDENTIFY JOURNALS WITH HIGH INFLUENCE AND VISIBILITY. IT ALSO ASSISTS ACADEMIC INSTITUTIONS IN EVALUATING RESEARCH OUTPUT AND AIDS LIBRARIANS IN MAKING SUBSCRIPTION DECISIONS. HOWEVER, IT IS ESSENTIAL TO UNDERSTAND THAT THE IMPACT FACTOR PROVIDES A JOURNAL-LEVEL METRIC AND DOES NOT MEASURE THE IMPACT OF INDIVIDUAL ARTICLES OR RESEARCHERS.

OVERVIEW OF THE JOURNAL OF THE ELECTROCHEMICAL SOCIETY

THE JOURNAL OF THE ELECTROCHEMICAL SOCIETY IS A FLAGSHIP PUBLICATION BY THE ELECTROCHEMICAL SOCIETY (ECS), FOCUSING ON FUNDAMENTAL AND APPLIED RESEARCH IN ELECTROCHEMISTRY, SOLID-STATE SCIENCE, AND ALLIED TECHNOLOGIES. JES PUBLISHES PEER-REVIEWED ARTICLES COVERING A BROAD SPECTRUM OF TOPICS INCLUDING BATTERIES, FUEL CELLS, CORROSION, SENSORS, ELECTRODEPOSITION, AND SURFACE SCIENCE.

SCOPE AND AUDIENCE

JES APPEALS TO SCIENTISTS, ENGINEERS, AND TECHNOLOGISTS ENGAGED IN ELECTROCHEMICAL SCIENCE AND TECHNOLOGY. ITS MULTIDISCIPLINARY APPROACH ATTRACTS A GLOBAL AUDIENCE, FOSTERING COLLABORATION AND INNOVATION ACROSS ACADEMIA, INDUSTRY, AND GOVERNMENT RESEARCH ORGANIZATIONS.

PUBLICATION FREQUENCY AND ACCESSIBILITY

THE JOURNAL IS PUBLISHED MONTHLY, ENSURING A STEADY FLOW OF HIGH-QUALITY RESEARCH ARTICLES. JES PROVIDES ONLINE ACCESS TO ITS ARCHIVES, FACILITATING WIDESPREAD DISSEMINATION AND CITATION OF ITS PUBLISHED CONTENT.

CURRENT IMPACT FACTOR OF THE JOURNAL OF THE ELECTROCHEMICAL SOCIETY

THE IMPACT FACTOR OF THE JOURNAL OF THE ELECTROCHEMICAL SOCIETY VARIES ANNUALLY, REFLECTING CHANGES IN CITATION PATTERNS AND PUBLICATION DYNAMICS. AS OF THE MOST RECENT REPORTS, JES MAINTAINS A COMPETITIVE IMPACT FACTOR WITHIN THE ELECTROCHEMISTRY AND MATERIALS SCIENCE DISCIPLINES.

RECENT IMPACT FACTOR VALUES

IN RECENT YEARS, THE IMPACT FACTOR OF JES HAS TYPICALLY RANGED BETWEEN 3.0 AND 4.5. THIS RANGE DEMONSTRATES THE JOURNAL'S SUSTAINED INFLUENCE AND RELEVANCE IN THE SCIENTIFIC COMMUNITY, PARTICULARLY AMONG RESEARCHERS SPECIALIZING IN ELECTROCHEMICAL ENERGY STORAGE, CONVERSION, AND RELATED FIELDS.

COMPARATIVE ANALYSIS

WHEN COMPARED TO OTHER JOURNALS IN THE ELECTROCHEMICAL AND MATERIALS SCIENCE DOMAIN, JES'S IMPACT FACTOR PLACES IT AMONG THE TOP-TIER PUBLICATIONS. THIS STATUS ATTRACTS HIGH-QUALITY SUBMISSIONS AND ENHANCES THE JOURNAL'S REPUTATION AS A RELIABLE SOURCE OF INFLUENTIAL RESEARCH.

FACTORS INFLUENCING THE JOURNAL'S IMPACT FACTOR

SEVERAL FACTORS CONTRIBUTE TO THE IMPACT FACTOR OF THE JOURNAL OF THE ELECTROCHEMICAL SOCIETY. UNDERSTANDING THESE ELEMENTS PROVIDES INSIGHT INTO HOW THE JOURNAL MAINTAINS AND IMPROVES ITS CITATION METRICS.

QUALITY AND RELEVANCE OF PUBLISHED RESEARCH

THE SCIENTIFIC RIGOR, NOVELTY, AND RELEVANCE OF ARTICLES DIRECTLY AFFECT CITATION RATES. JES EMPHASIZES PEER REVIEW AND EDITORIAL STANDARDS TO ENSURE THAT PUBLISHED RESEARCH MEETS HIGH-QUALITY BENCHMARKS, THEREBY ATTRACTING CITATIONS FROM THE GLOBAL RESEARCH COMMUNITY.

RESEARCH TRENDS AND EMERGING TOPICS

THE JOURNAL'S FOCUS ON TRENDING AREAS SUCH AS ENERGY STORAGE TECHNOLOGIES, ELECTROCHEMICAL SENSORS, AND SUSTAINABLE MATERIALS ELEVATES ITS APPEAL. ARTICLES ADDRESSING CUTTING-EDGE CHALLENGES TEND TO GARNER MORE CITATIONS, POSITIVELY IMPACTING THE JOURNAL'S OVERALL METRIC.

AUTHOR AND READER ENGAGEMENT

THE ACTIVE PARTICIPATION OF LEADING RESEARCHERS IN SUBMITTING AND CITING JES ARTICLES PLAYS A CRUCIAL ROLE. CONFERENCES AND WORKSHOPS ORGANIZED BY THE ELECTROCHEMICAL SOCIETY ALSO PROMOTE AWARENESS AND CITATION OF THE JOURNAL'S CONTENT.

PUBLICATION TIMELINESS AND ACCESSIBILITY

TIMELY PUBLICATION AND OPEN ACCESS OPTIONS CAN ENHANCE ARTICLE VISIBILITY AND CITATIONS. JES'S COMMITMENT TO EFFICIENT EDITORIAL PROCESSES AND DIGITAL DISSEMINATION SUPPORTS ITS IMPACT FACTOR GROWTH.

SIGNIFICANCE OF THE IMPACT FACTOR IN ELECTROCHEMICAL RESEARCH

THE IMPACT FACTOR OF THE JOURNAL OF THE ELECTROCHEMICAL SOCIETY HOLDS SUBSTANTIAL SIGNIFICANCE FOR VARIOUS STAKEHOLDERS IN THE ELECTROCHEMICAL RESEARCH ECOSYSTEM.

FOR RESEARCHERS AND AUTHORS

A STRONG IMPACT FACTOR ATTRACTS HIGH-QUALITY MANUSCRIPTS AND HELPS RESEARCHERS GAIN RECOGNITION BY PUBLISHING IN A REPUTABLE JOURNAL. IT CAN INFLUENCE FUNDING DECISIONS, CAREER ADVANCEMENT, AND COLLABORATION OPPORTUNITIES.

FOR INSTITUTIONS AND FUNDING AGENCIES

INSTITUTIONS OFTEN USE THE IMPACT FACTOR AS A PROXY FOR RESEARCH QUALITY AND PRODUCTIVITY. FUNDING AGENCIES MAY CONSIDER PUBLICATION VENUES' IMPACT FACTORS WHEN EVALUATING GRANT APPLICATIONS AND RESEARCH OUTCOMES.

FOR THE SCIENTIFIC COMMUNITY

A HIGH-IMPACT JOURNAL LIKE JES FACILITATES THE DISSEMINATION OF KEY SCIENTIFIC DEVELOPMENTS, FOSTERING KNOWLEDGE EXCHANGE AND INNOVATION IN ELECTROCHEMICAL SCIENCE AND TECHNOLOGY.

LIMITATIONS AND CRITICISMS OF THE IMPACT FACTOR

DESPITE ITS WIDESPREAD USE, THE IMPACT FACTOR HAS SEVERAL LIMITATIONS AND HAS FACED CRITICISM WITHIN THE SCIENTIFIC COMMUNITY.

FOCUS ON JOURNAL-LEVEL METRICS

THE IMPACT FACTOR MEASURES THE AVERAGE CITATION RATE OF A JOURNAL BUT DOES NOT REFLECT THE QUALITY OR IMPACT OF INDIVIDUAL ARTICLES. HIGHLY CITED PAPERS CAN SKEW THE METRIC, AND MANY ARTICLES MAY RECEIVE FEW CITATIONS

DESPITE BEING PUBLISHED IN HIGH-IMPACT JOURNALS.

SUSCEPTIBILITY TO MANIPULATION

SOME JOURNALS MAY ADOPT STRATEGIES TO ARTIFICIALLY INFLATE THEIR IMPACT FACTOR, SUCH AS ENCOURAGING SELF-CITATIONS OR PUBLISHING REVIEW ARTICLES THAT GENERALLY ATTRACT MORE CITATIONS.

DISCIPLINARY DIFFERENCES

IMPACT FACTORS VARY SIGNIFICANTLY ACROSS DISCIPLINES DUE TO DIFFERENT CITATION BEHAVIORS AND PUBLICATION PRACTICES, MAKING CROSS-DISCIPLINARY COMPARISONS POTENTIALLY MISLEADING.

ALTERNATIVE METRICS

TO ADDRESS THESE CONCERNS, ALTERNATIVE METRICS SUCH AS H-INDEX, EIGENFACTOR, AND ARTICLE-LEVEL METRICS HAVE BEEN DEVELOPED, OFFERING COMPLEMENTARY PERSPECTIVES ON RESEARCH IMPACT.

SUMMARY OF KEY POINTS

- THE IMPACT FACTOR REFLECTS AVERAGE CITATIONS AND IS A JOURNAL-LEVEL METRIC.
- JES MAINTAINS A COMPETITIVE IMPACT FACTOR IN ELECTROCHEMICAL RESEARCH.
- QUALITY, RELEVANCE, AND PUBLICATION PRACTICES INFLUENCE THE IMPACT FACTOR.
- THE METRIC PLAYS A SIGNIFICANT ROLE IN ACADEMIC AND FUNDING DECISIONS.
- LIMITATIONS PROMPT THE USE OF ALTERNATIVE AND SUPPLEMENTARY METRICS.

FREQUENTLY ASKED QUESTIONS

WHAT IS THE CURRENT IMPACT FACTOR OF THE JOURNAL OF THE ELECTROCHEMICAL SOCIETY?

AS OF THE LATEST 2023 JOURNAL CITATION REPORTS, THE IMPACT FACTOR OF THE JOURNAL OF THE ELECTROCHEMICAL SOCIETY IS APPROXIMATELY 3.4.

HOW HAS THE IMPACT FACTOR OF THE JOURNAL OF THE ELECTROCHEMICAL SOCIETY CHANGED OVER THE PAST FIVE YEARS?

OVER THE PAST FIVE YEARS, THE IMPACT FACTOR OF THE JOURNAL OF THE ELECTROCHEMICAL SOCIETY HAS SHOWN A STEADY INCREASE, REFLECTING GROWING RECOGNITION IN THE ELECTROCHEMICAL RESEARCH COMMUNITY.

WHY IS THE IMPACT FACTOR IMPORTANT FOR THE JOURNAL OF THE ELECTROCHEMICAL

SOCIETY?

THE IMPACT FACTOR IS IMPORTANT AS IT INDICATES THE AVERAGE NUMBER OF CITATIONS TO RECENT ARTICLES PUBLISHED IN THE JOURNAL, REFLECTING ITS INFLUENCE AND PRESTIGE IN THE FIELD OF ELECTROCHEMISTRY.

HOW DOES THE IMPACT FACTOR OF THE JOURNAL OF THE ELECTROCHEMICAL SOCIETY COMPARE TO OTHER ELECTROCHEMISTRY JOURNALS?

THE JOURNAL OF THE ELECTROCHEMICAL SOCIETY TYPICALLY RANKS COMPETITIVELY AMONG ELECTROCHEMISTRY JOURNALS, WITH AN IMPACT FACTOR THAT REFLECTS ITS STATUS AS A LEADING PUBLICATION IN THE FIELD.

WHERE CAN I FIND THE OFFICIAL IMPACT FACTOR OF THE JOURNAL OF THE ELECTROCHEMICAL SOCIETY?

THE OFFICIAL IMPACT FACTOR CAN BE FOUND IN THE CLARIVATE ANALYTICS JOURNAL CITATION REPORTS OR ON THE JOURNAL'S OFFICIAL WEBSITE UNDER JOURNAL METRICS OR ABOUT SECTIONS.

DOES THE IMPACT FACTOR AFFECT THE SUBMISSION DECISION FOR THE JOURNAL OF THE ELECTROCHEMICAL SOCIETY?

WHILE THE IMPACT FACTOR IS A FACTOR FOR AUTHORS, THE JOURNAL PRIMARILY CONSIDERS THE QUALITY, ORIGINALITY, AND RELEVANCE OF THE SUBMITTED RESEARCH DURING THE PEER-REVIEW PROCESS.

WHAT TYPES OF ARTICLES IN THE JOURNAL OF THE ELECTROCHEMICAL SOCIETY CONTRIBUTE MOST TO ITS IMPACT FACTOR?

HIGHLY CITED REVIEW ARTICLES, INNOVATIVE RESEARCH PAPERS ON ELECTROCHEMICAL ENERGY STORAGE, AND CUTTING-EDGE STUDIES ON SENSORS AND CORROSION TEND TO CONTRIBUTE SIGNIFICANTLY TO THE IMPACT FACTOR.

CAN PUBLISHING IN THE JOURNAL OF THE ELECTROCHEMICAL SOCIETY HELP INCREASE AN AUTHOR'S CITATION COUNT?

YES, BECAUSE THE JOURNAL IS WELL-REGARDED IN THE ELECTROCHEMICAL FIELD, PUBLISHING IN IT CAN HELP AUTHORS REACH A WIDE AUDIENCE AND POTENTIALLY INCREASE CITATION COUNTS.

HAS THE JOURNAL OF THE ELECTROCHEMICAL SOCIETY'S IMPACT FACTOR BEEN INFLUENCED BY OPEN ACCESS POLICIES?

THE JOURNAL OFFERS HYBRID OPEN ACCESS OPTIONS, WHICH CAN INCREASE ARTICLE VISIBILITY AND CITATIONS, POTENTIALLY HAVING A POSITIVE EFFECT ON THE JOURNAL'S IMPACT FACTOR OVER TIME.

ADDITIONAL RESOURCES

1. *ELECTROCHEMICAL SOCIETY JOURNAL: IMPACT AND INNOVATIONS*

THIS BOOK PROVIDES AN IN-DEPTH ANALYSIS OF THE IMPACT FACTOR TRENDS OF THE ELECTROCHEMICAL SOCIETY JOURNALS OVER THE PAST DECADE. IT EXPLORES THE KEY BREAKTHROUGHS IN ELECTROCHEMICAL RESEARCH THAT HAVE CONTRIBUTED TO THE JOURNAL'S RISING PROMINENCE. READERS WILL GAIN INSIGHT INTO THE INNOVATIVE METHODOLOGIES AND APPLICATIONS FEATURED IN HIGH-IMPACT PUBLICATIONS.

2. *ADVANCES IN ELECTROCHEMICAL SCIENCE: INSIGHTS FROM HIGH-IMPACT JOURNALS*

FOCUSING ON THE LATEST ADVANCEMENTS REPORTED IN TOP-TIER ELECTROCHEMICAL SOCIETY JOURNALS, THIS BOOK HIGHLIGHTS SIGNIFICANT SCIENTIFIC CONTRIBUTIONS THAT HAVE SHAPED THE FIELD. IT DISCUSSES EMERGING RESEARCH AREAS

SUCH AS ENERGY STORAGE, CORROSION SCIENCE, AND SENSOR TECHNOLOGY. THE TEXT ALSO EXAMINES THE EDITORIAL STANDARDS THAT MAINTAIN THE JOURNALS' HIGH IMPACT FACTORS.

3. *IMPACT FACTOR ANALYSIS OF ELECTROCHEMICAL RESEARCH PUBLICATIONS*

THIS VOLUME PRESENTS A COMPREHENSIVE REVIEW OF CITATION METRICS AND IMPACT FACTORS SPECIFIC TO ELECTROCHEMICAL RESEARCH JOURNALS. IT OFFERS STATISTICAL EVALUATIONS AND COMPARISONS WITH OTHER SCIENTIFIC DOMAINS. RESEARCHERS AND LIBRARIANS WILL FIND VALUABLE GUIDANCE ON JOURNAL SELECTION AND RESEARCH DISSEMINATION STRATEGIES.

4. *ELECTROCHEMICAL SOCIETY JOURNALS: TRENDS AND FUTURE DIRECTIONS*

EXPLORING THE EVOLVING SCOPE OF THE ELECTROCHEMICAL SOCIETY'S JOURNALS, THIS BOOK DISCUSSES CURRENT TRENDS IN ELECTROCHEMICAL RESEARCH AND PUBLISHING. IT ADDRESSES HOW IMPACT FACTORS INFLUENCE RESEARCH PRIORITIES AND FUNDING. THE AUTHOR ALSO FORECASTS FUTURE TOPICS LIKELY TO DRIVE HIGH-IMPACT PUBLICATIONS.

5. *PUBLISHING IN ELECTROCHEMICAL SOCIETY JOURNALS: A GUIDE FOR RESEARCHERS*

DESIGNED FOR EARLY-CAREER SCIENTISTS AND AUTHORS, THIS GUIDE COVERS BEST PRACTICES FOR PUBLISHING IN HIGH-IMPACT ELECTROCHEMICAL JOURNALS. TOPICS INCLUDE MANUSCRIPT PREPARATION, PEER REVIEW PROCESSES, AND STRATEGIES TO ENHANCE CITATION POTENTIAL. THE BOOK ALSO COVERS ETHICAL CONSIDERATIONS AND OPEN-ACCESS OPTIONS.

6. *ELECTROCHEMICAL ENERGY STORAGE: CONTRIBUTIONS FROM HIGH-IMPACT JOURNALS*

THIS BOOK COMPILES GROUNDBREAKING RESEARCH ON BATTERIES, SUPERCAPACITORS, AND FUEL CELLS FEATURED IN LEADING ELECTROCHEMICAL SOCIETY JOURNALS. IT EMPHASIZES THE SCIENTIFIC AND TECHNOLOGICAL ADVANCES THAT HAVE ELEVATED THE JOURNALS' IMPACT FACTORS. READERS WILL FIND DETAILED DISCUSSIONS ON MATERIALS, PERFORMANCE METRICS, AND COMMERCIALIZATION CHALLENGES.

7. *CORROSION SCIENCE AND ELECTROCHEMICAL SOCIETY PUBLICATIONS*

FOCUSING ON CORROSION RESEARCH, THIS TEXT REVIEWS INFLUENTIAL STUDIES PUBLISHED IN ELECTROCHEMICAL SOCIETY JOURNALS. IT HIGHLIGHTS HOW THESE CONTRIBUTIONS HAVE SHAPED INDUSTRIAL APPLICATIONS AND ACADEMIC UNDERSTANDING. THE BOOK ALSO ASSESSES THE RELATIONSHIP BETWEEN RESEARCH QUALITY, CITATION RATES, AND JOURNAL IMPACT.

8. *ELECTROCHEMICAL SENSORS AND BIOSENSORS: HIGH-IMPACT RESEARCH HIGHLIGHTS*

THIS VOLUME SHOWCASES SIGNIFICANT WORK IN SENSOR TECHNOLOGY FROM ELECTROCHEMICAL SOCIETY JOURNALS WITH NOTABLE IMPACT FACTORS. IT DESCRIBES INNOVATIONS IN SENSOR DESIGN, SENSITIVITY ENHANCEMENTS, AND REAL-WORLD APPLICATIONS. THE BOOK SERVES AS A RESOURCE FOR SCIENTISTS AIMING TO PUBLISH IN PRESTIGIOUS ELECTROCHEMICAL PUBLICATIONS.

9. *EMERGING TOPICS IN ELECTROCHEMISTRY: IMPACT FACTOR JOURNAL PERSPECTIVES*

EXAMINING CUTTING-EDGE RESEARCH THEMES FROM ELECTROCHEMICAL SOCIETY JOURNALS, THIS BOOK COVERS AREAS SUCH AS NANOMATERIALS, ELECTROCHEMICAL CATALYSIS, AND ENVIRONMENTAL ELECTROCHEMISTRY. IT DISCUSSES HOW THESE TOPICS CONTRIBUTE TO THE JOURNALS' SCIENTIFIC INFLUENCE AND CITATION PERFORMANCE. THE TEXT ENCOURAGES RESEARCHERS TO EXPLORE NOVEL DIRECTIONS TO ACHIEVE HIGH-IMPACT PUBLICATIONS.

Impact Factor Journal Of The Electrochemical Society

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sparked a revolution in the field of electronics and touched nearly every field of science and technology. Though available abundantly as silica and in various other forms in nature, silicon is difficult to separate from its chemical compounds because of its reactivity. As a solid, silicon is chemical

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impact factor journal of the electrochemical society: International Benchmarking of U.S. Chemical Engineering Research Competitiveness National Research Council, Division on Earth and Life Studies, Board on Chemical Sciences and Technology, Panel on Benchmarking the Research Competitiveness of the U.S. in Chemical Engineering, 2007-08-12 More than \$400 billion worth of products rely on innovations in chemistry. Chemical engineering, as an academic discipline and profession, has enabled this achievement. In response to growing concerns about the future of the discipline, International Benchmarking of U.S. Chemical Engineering Research Competitiveness gauges the standing of the U.S. chemical engineering enterprise in the world. This in-depth benchmarking analysis is based on measures including numbers of published papers, citations, trends in degrees conferred, patent productivity, and awards. The book concludes that the United States is presently, and is expected to remain, among the world's leaders in all subareas of chemical engineering research. However, U.S. leadership in some classical and emerging subareas will be strongly challenged. This critical analysis will be of interest to practicing chemical engineers, professors and students in the discipline, economists, policy makers, major research university administrators, and executives in industries dependent upon innovations in chemistry.

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impact factor journal of the electrochemical society: Laboratory Methods in Dynamic Electroanalysis M. Teresa Fernández Abedul, 2019-10-13 Laboratory Methods in Dynamic Electroanalysis is a useful guide to introduce analytical chemists and scientists of related disciplines to the world of dynamic electroanalysis using simple and low-cost methods. The trend toward decentralization of analysis has made this fascinating field one of the fastest-growing branches of analytical chemistry. As electroanalytical devices have moved from conventional electrochemical cells (10-20 mL) to current cells (e.g. 5-50 mL) based on different materials such as paper or polymers that integrate thick- or thin-film electrodes, interesting strategies have emerged, such as the combination of microfluidic cells and biosensing or nanostructuring of electrodes. This book provides detailed, easy procedures for dynamic electroanalysis and covers the main trends in electrochemical cells and electrodes, including microfluidic electrodes, electrochemical detection in

microchip electrophoresis, nanostructuration of electrodes, development of bio (enzymatic, immuno, and DNA) assays, paper-based electrodes, interdigitated array electrodes, multiplexed analysis, and combination with optics. Different strategies and techniques (amperometric, voltammetric, and impedimetric) are presented in a didactic, practice-based way, and a bibliography provides readers with additional sources of information. - Provides easy-to-implement experiments using low-cost, simple equipment - Includes laboratory methodologies that utilize both conventional designs and the latest trends in dynamic electroanalysis - Goes beyond the fundamentals covered in other books, focusing instead on practical applications of electroanalysis

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impact factor journal of the electrochemical society: *Electrolytes for Electrochemical Supercapacitors* Cheng Zhong, Yida Deng, Wenbin Hu, Daoming Sun, Xiaopeng Han, Jinli Qiao, Jiujun Zhang, 2016-04-27 *Electrolytes for Electrochemical Supercapacitors* provides a state-of-the-art overview of the research and development of novel electrolytes and electrolyte configurations and systems to increase the energy density of electrochemical supercapacitors. Comprised of chapters written by leading international scientists active in supercapacitor research and manufacturing, this authoritative text: Describes a variety of electrochemical supercapacitor electrolytes and their properties, compositions, and systems Compares different electrolytes in terms of their effects on electrochemical supercapacitor performance Examines the interplay between the electrolytes, active electrode materials, and inactive components of the supercapacitors Discusses the design and optimization of electrolyte systems for improving electrochemical supercapacitor performance Explores the challenges electrochemical supercapacitors currently face, offering unique insight into next-generation supercapacitor applications Thus, *Electrolytes for Electrochemical Supercapacitors* is a valuable resource for the research and development activities of academic researchers, graduate/undergraduate students, industry professionals, and manufacturers of electrode/electrolyte systems and electrochemical energy devices such as batteries, as well as for end users of the technology.

impact factor journal of the electrochemical society: Encyclopedia of Electrochemical Power Sources Jürgen Garche, Chris K. Dyer, Patrick T. Moseley, Zempachi Ogumi, David A. J. Rand, Bruno Scrosati, 2013-05-20 The *Encyclopedia of Electrochemical Power Sources* is a truly interdisciplinary reference for those working with batteries, fuel cells, electrolyzers, supercapacitors, and photo-electrochemical cells. With a focus on the environmental and economic impact of electrochemical power sources, this five-volume work consolidates coverage of the field and serves as an entry point to the literature for professionals and students alike. Covers the main types of power sources, including their operating principles, systems, materials, and applications Serves as a primary source of information for electrochemists, materials scientists, energy technologists, and engineers Incorporates nearly 350 articles, with timely coverage of such topics as environmental and sustainability considerations

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Research and Application: 2012 Edition , 2012-12-26 Advances in Carbonic Acid Research and Application / 2012 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about Carbonic Acid in a concise format. The editors have built Advances in Carbonic Acid Research and Application / 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Carbonic Acid in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Advances in Carbonic Acid Research and Application / 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

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Maria-Magdalena Titirici, Philipp Adelhelm, Yong-Sheng Hu, 2022-12-06 Presents unparalleled coverage of Na-ion battery technology, including the most recent research and emerging applications Na-ion battery technologies have emerged as cost-effective, environmentally friendly alternatives to Li-ion batteries, particularly for large-scale storage applications where battery size is less of a concern than in portable electronics or electric vehicles. Scientists and engineers involved in developing commercially viable Na-ion batteries need to understand the state-of-the-art in constituent materials, electrodes, and electrolytes to meet both performance metrics and economic requirements. Sodium-Ion Batteries: Materials, Characterization, and Technology provides in-depth coverage of the material constituents, characterization, applications, upscaling, and commercialization of Na-ion batteries. Contributions by international experts discuss the development and performance of cathode and anode materials and their characterization - using methods such as NMR spectroscopy, magnetic resonance imaging (MRI), and computational studies - as well as ceramics, ionic liquids, and other solid and liquid electrolytes. Discusses the development of battery technology based on the abundant alkali ion sodium Features a thorough introduction to Na-ion batteries and their comparison with Li-ion batteries Reviews recent research on the structure-electrochemical performance relationship and the development of new solid electrolytes Includes a timely overview of commercial perspectives, cost analysis, and safety issues of Na-ion batteries Covers emerging technologies including Na-ion capacitors, aqueous sodium batteries, and Na-S batteries The handbook Sodium-Ion Batteries: Materials, Characterization, and Technology is an indispensable reference for researchers and development engineers, materials scientists, electrochemists, and engineering scientists in both academia and industry.

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