

# Development of Biomedical Applications of Non-equilibrium Plasmas and Possibilities for Atmospheric Pressure Nanotechnology Applications

Z.Lj. Petrović, N. Puač, D. Marić, D. Maletić, K. Špasić, N. Škoro, J. Sivoš, S. Lazović, G. Malović

**Abstract** - In this paper we discuss the synergisms between different realms of plasma supported nanotechnologies. First the developments in plasma etching for micro and later nanoelectronics have fueled immense growth of knowledge and tools in describing non-equilibrium plasmas. This has led to detailed predictive codes and that knowledge has been used to develop a large number of new sources of non-equilibrium plasmas operating at atmospheric pressure, even in air. With those tools a new front of plasma medicine has opened wide with new possibilities and a number of promising techniques for sterilization, cancer treatment, oral cavity treatment, dermatology and in a range of applications where deposition of thin films for biocompatibility is necessary. This new front opens new possibilities in the realm of nanotechnologies with atmospheric pressure deposition of nano-structures allowing direct application of new techniques in medicine and in cheaper technologies for other purposes.

## I. INTRODUCTION

Non-equilibrium plasma etching and related plasma processes [1] have proven to be the key to achieving manufacturing of integrated circuits, adherence to Moore's law and fueling of the global economy through explosion of all fields of economy that may benefit or even be generated with a strong dependence on processing power. The most important steps in developing of modern micro-electronic technology were achieved by empirical industry based research and science came in later to explain. Having said that, we must acknowledge a lot of successes in continuous improvements of the technology that were made, based on scientific development of diagnostics, modeling and fine tuning of key steps, such as multi frequency [2] and pulsed operation [3]. Finally science has made a significant contribution to understanding and

removal of defects caused by the plasma itself or by the ever increasing demands in miniaturization. The contribution of science nevertheless boils down mainly to **BETTER UNDERSTANDING** of non-equilibrium (low temperature, cold...) plasmas. Most directly this understanding spills over to predictive models [1,4,5] that have been developed for complex geometries, complex chemistries and powering sequences and may represent realistically most of the low pressure industry devices.

At the same time there are constant reminders from the cost aware practitioners that operation of plasma devices is expensive, partly because of the need to have low pressure operation with vacuuming system to ensure the purity of gases. Operating pressures in industry are typically from few to 200 mTorr and purity of the gas that has to be achieved requires pumping down to very low pressures before the gas flow is started. Thus plasma devices operating at atmospheric pressure have been the holy grail of the industry, although some processes are not much cheaper and also cleanliness of substrates may require operation in pure gases maintained in sealed vacuum tight systems (albeit with somewhat smaller restrictions on pumping). Finally vacuum systems make production line manufacturing more complicated. In any case high pressure operation of plasma devices would be a welcome addition to the existing battery of plasma devices that micro-electronics industry has at its disposal.

Nano-particles worthy of scientific interest have been discovered first in atmospheric pressure thermal plasmas, but later non-equilibrium plasmas were shown to give some advantages and additional features [6,7]. While there are other processes that produce nano-particles, still one out of five significant papers in this field comes from the plasma background in one form or the other. Thus nanotechnologies are strongly connected to plasmas, especially non-equilibrium, and in all cases operation at atmospheric pressure would be beneficial.

Atmospheric pressure discharges and plasmas have been known in nature and have been generated by humans for the last 200 and more years. However, most of these plasmas are thermal which in principle means that electrons, ions and gas molecules tend to have the same temperature. When we calculate what is needed for ionization in order to maintain plasma, those are enormous temperatures. Yet maintaining plasma does not require all

Z.Lj. Petrović, N. Puač, D. Marić, D. Maletić, K. Špasić, N. Škoro, J. Sivoš, S. Lazović, G. Malović are with the Institute of Physics, University of Belgrade, Pregrevica 118, 11080 Belgrade, Serbia, E-mail: zoran@ipb.ac.rs

# Development Of Biomedical Applications Of Non Equilibrium

**Anatoli Korkin, Predrag S. Krstić, Jack  
C. Wells**



## **Development Of Biomedical Applications Of Non Equilibrium:**

Encyclopedia of Plasma Technology - Two Volume Set J. Leon Shohet, 2016-12-12 Technical plasmas have a wide range of industrial applications The Encyclopedia of Plasma Technology covers all aspects of plasma technology from the fundamentals to a range of applications across a large number of industries and disciplines Topics covered include nanotechnology solar cell technology biomedical and clinical applications electronic materials sustainability and clean technologies The book bridges materials science industrial chemistry physics and engineering making it a must have for researchers in industry and academia as well as those working on application oriented plasma technologies Also Available Online This Taylor E mail e reference taylorandfrancis com International Tel 44 0 20 7017 6062 E mail online sales tandf co uk

*Nonequilibrium Thermodynamics* Yasar Demirel, Vincent Gerbaud, 2025-02-17 This fully updated and revised fifth edition of *Nonequilibrium Thermodynamics Transport and Rate Processes in Physical Chemical and Biological Systems* emphasizes the unifying role of thermodynamics and their use in transport processes and chemical reactions in physical chemical and biological systems This reorganized new edition provides thermodynamical approaches for foundational understanding of natural phenomena with multiscale chemical physical and biological systems consisting of interactive processes leading to self organized dissipative structures fluctuations and instabilities This edition also emphasizes thermodynamic approaches tools and techniques including energy analysis process intensification and artificial intelligence for undertaking sustainable engineering This book will be an excellent resource for graduate students and researchers in the fields of engineering chemistry physics energy biotechnology and biology as well as those whose work involves understanding the evolution of nonequilibrium systems information theory stochastic processes and sustainable engineering This may also be useful to professionals working in irreversibility dissipative structures process exergy analysis and thermoeconomics digitalization in manufacturing and data processing Highlights the fundamentals of equilibrium thermodynamics and phase equilibria Expands the theory of nonequilibrium thermodynamics and its use in coupled reactions and transport processes in various time and space scales of physical chemical and biological systems Discusses self organized dissipative structures quantum thermodynamics information theory and stochastic approaches in thermodynamic analysis including fluctuation theories and molecular motors Includes new content on sustainable engineering with thermodynamics tools and techniques including energy analysis process intensification and artificial intelligence Presents many fully solved examples and numerous practice problems Offers instructor resources containing a solution manual that can be obtained from the authors

Nonequilibrium Atmospheric Pressure Plasma Jets XinPei Lu, Stephan Reuter, Mounir Laroussi, DaWei Liu, 2019-04-23 Nonequilibrium atmospheric pressure plasma jets N APPJs generate plasma in open space rather than in a confined chamber and can be utilized for applications in medicine This book provides a complete introduction to this fast emerging field from the fundamental physics to experimental approaches to plasma and reactive

species diagnostics It provides an overview of the development of a wide range of plasma jet devices and their fundamental mechanisms The book concludes with a discussion of the exciting application of plasmas for cancer treatment The book provides details on experimental methods including expert tips and caveats covers novel devices driven by various power sources and the impact of operating conditions on concentrations and fluxes of the reactive species discusses the latest advances including theory modeling and simulation approaches gives an introduction overview and details on state of the art diagnostics of small scale high gradient atmospheric pressure plasmas covers the use of N APPJs for cancer applications including discussion of destruction of cancer cells mechanisms of action and selectivity studies XinPei Lu is a Chair Professor in the School of Electrical and Electronic Engineering at Huazhong University of Science and Technology Stephan Reuter is currently Visiting Professor at Universit Paris Saclay In a recent Alexander von Humboldt research fellowship at Princeton University he performed ultrafast laser spectroscopy on cold plasmas Mounir Laroussi is Professor of Electrical and Computer Engineering and director of the Plasma Engineering and Medicine Institute at Old Dominion University He is a Fellow of IEEE and recipient of an IEEE Merit Award DaWei Liu is Professor in the School of Electrical and Electronic Engineering at Huazhong University of Science and Technology

*Plasma Technology for Biomedical Applications* Emilio Martines, 2020-05-29 There is growing interest in the use of physical plasmas ionized gases for biomedical applications especially in the framework of so called plasma medicine which exploits the action of low power atmospheric pressure plasmas for therapeutic purposes Such plasmas are cold plasmas in the sense that only electrons have a high temperature whereas ions and the neutral gas particles are at or near room temperature As a consequence the plasma flame can be directly applied to living matter without appreciable thermal load Reactive chemical species charged particles visible and UV radiation and electric fields are interaction channels of the plasma with pathogens cells and tissues which can trigger a variety of different responses Possible applications include disinfection wound healing cancer treatment non thermal blood coagulation just to mention some The understanding of the mechanisms of plasma action on living matter requires a strongly interdisciplinary approach with competencies ranging from plasma physics and technology to chemistry to biology and finally to medicine This book is a collection of work that explores recent advances in this field

**Metallic Biomaterials for Medical Applications** Liqiang Wang, Chaozong Liu, Lechun Xie, 2022-01-17

Cold Plasma MDPI, 2021-01-20 Non equilibrium plasma or low temperature plasma LTP offers a chemically rich medium without the need for high power and elevated temperatures This unique characteristic has made LTP very useful for various industrial and biomedical applications where thermal effects are not desirable In addition the relative simplicity of the design of sources capable of generating non equilibrium plasma at atmospheric pressure makes LTP a very attractive technology that can accomplish the same or better results than much more complex and expensive approaches This book describes various low temperature plasma sources and some of their environmental and biomedical applications The plasma sources covered in this book include low temperature

plasma jets which are novel devices that can launch low power low temperature plasma plumes in ambient air These plasma plumes can accurately and reliably be aimed at a surface to be treated or at a biological target such as cells and tissues The application of these plasma jets in medicine including in cancer therapy are thoroughly discussed in this book The contents of this book will appeal to engineers medical experts academics and students who work with plasma technology **Liquid**

**Scintillation Counting Recent Applications and Development** Chin-Tzu Peng,2012-12-02 Liquid Scintillation Counting Recent Applications and Development Volume II Sample Preparation and Applications documents the proceedings of the International Conference on Liquid Scintillation Counting Recent Applications and Development held on August 21 24 1979 at the University of California San Francisco The conference brought together 180 scientists from 15 countries who share a common interest in promoting a better understanding of liquid scintillation science and technology Liquid scintillation counting is one branch of nuclear metrology that many scientists of various disciplines use in tracing and quantification in their investigatory studies The proceedings consisting of 14 sections include 76 of the 77 invited and contributed papers presented at the conference The first volume contains 37 papers mainly dealing with the physical aspects of liquid scintillation science and technology The present volume contains papers that cover sample preparation flow counting and emulsion solgel counting It also includes studies on applications of liquid scintillation counting such as chemiluminescence and bioluminescence environmental monitoring and biomedical and radioimmunoassays Mechanics and Materials

Science of Biological Materials Krashn Kumar Dwivedi,Piyush Uniyal,Akarsh Verma,2025-07-18 This book focuses on the important experimental techniques and modeling approaches with their technological improvements and recent research advancements in the field of biomechanics The major aim of this book is to cover all updated aspects of biomechanics and materials science of biological materials and its holistic domains including the history source formulations and applications The emphasis is given on the understanding mechanics of soft and hard tissues Also many case studies are incorporated in this book that separates it from other related texts **Plasma Medical Science** Shinya Toyokuni,Yuzuru Ikehara,Fumitaka Kikkawa,Masaru Hori,2018-07-06 Plasma Medical Science describes the progress that has been made in the field over the past five years illustrating what readers must know to be successful As non thermal atmospheric pressure plasma has been applied for a wide variety of medical fields including wound healing blood coagulation and cancer therapy this book is a timely resource on the topics discussed Provides a dedicated reference for this emerging topic Discusses the state of the art developments in plasma technology Introduces topics of plasma biophysics and biochemistry that are required to understand the application of the technology for plasma medicine Brings together diverse experience in this field in one reference text Provides a roadmap for future developments in the area Nanotechnology for Electronics, Photonics, and Renewable

Energy Anatoli Korkin,Predrag S. Krstić,Jack C. Wells,2010-12-14 Tutorial lectures given by world renowned researchers have become one of the important traditions of the Nano and Giga Challenges NGC conference series 1 Soon after

preparations had begun for the first forum NGC2002 in Moscow Russia the organizers realized that publication of the lectures notes would be a valuable legacy of the meeting and a significant educational resource and knowledge base for students young researchers and senior experts Our first book was published by Elsevier and received the same title as the meeting itself Nano and Giga 2 Challenges in Microelectronics Our second book Nanotechnology for Electronic 3 4 Materials and Devices based on the tutorial lectures at NGC2004 in Krakow 5 Poland the third book from NGC2007 in Phoenix Arizona and the current book 6 from joint NGC2009 and CSTC2009 meeting in Hamilton Ontario have been published in Springer's Nanostructure Science and Technology series Hosted by McMaster University the meeting NGC CSTC 2009 was held as a joint event of two conference series Nano and Giga Challenges Nano Giga Forum and Canadian Semiconductor Technology Conferences CSTC bringing together the networks and expertise of both professional forums Informational electronics and photonics renewable energy solar systems fuel cells and batteries and sensor nano and bio technologies have reached a new stage in their development in terms of engineering limits to cost effective improvement of current technological approaches The latest miniaturization of electronic devices is approaching atomic dimensions

*5G and Beyond Wireless Networks* Indrasen Singh, Shubham Tayal, Niraj Pratap Singh, Vijay Shanker Tripathi, Ghanshyam Singh, 2024-02-26

*5G and Beyond Wireless Networks* Technology Network Deployments and Materials for Antenna Design offers a comprehensive overview of 5G and beyond 5G wireless networks along with emerging technologies that support the design and development of wireless networks It also includes discussions on various materials used for practical antenna design which are suitable for 5G beyond 5G applications and cell free massive MIMO systems The book discusses the latest techniques used in 5G and beyond 5G B5G communication such as non orthogonal multiple access NOMA device to device D2D communication 6G ultra dense O RAN rate splitting multiple access RSMA simultaneous wireless information and power transfer SWIPT massive multiple input multiple output mMIMO and cell free massive MIMO systems which are explained in detail for 5G and beyond cellular networks The description of NOMA and their benefit for 5G and beyond networks is also addressed along with D2D communication for next generation cellular networks RSMA technique is also explained for 6G communication Detailed descriptions for the design and development of 5G and beyond networks over various techniques are included The materials specification to design antenna for 5G application are also given The role of metalens in designing effective antennas and material specifications for 5G applications is explained in this book Apart from the above emerging topics this book also gives ideas about intelligent communication Internet of Multimedia Things IOMT millimeter wave MIMO UPMC and fog computing cloud networks The last chapter gives details about the legal frameworks for 5G technology for responsible and sustainable deployment Overall this book may benefit network design engineers and researchers working in the area of next generation cellular networks The contents of this book will be helpful for young researchers and master students and network design engineers who are working in the area of next generation cellular networks

*Plasma Engineering* Michael Keidar, Isak

Beilis, 2018-08-06 Plasma Engineering Second Edition applies the unique properties of plasmas ionized gases to improve processes and performance over many fields such as materials processing spacecraft propulsion and nanofabrication The book considers this rapidly expanding discipline from a unified standpoint addressing fundamentals of physics and modeling as well as new and real word applications in aerospace nanotechnology and bioengineering This updated edition covers the fundamentals of plasma physics at a level suitable for students using application examples and contains the widest variety of applications of any text on the market spanning the areas of aerospace engineering nanotechnology and nanobioengineering This is highly useful for courses on plasma engineering or plasma physics in departments of Aerospace Engineering Electrical Engineering and Physics It is also useful as an introduction to plasma engineering and its applications for early career researchers and practicing engineers Features new material relevant to application including emerging areas of plasma nanotechnology and medicine Contains a new chapter on plasma based control as well as a description of RF and microwave based plasma applications plasma lighting reforming and other most recent application areas Provides a technical treatment of the fundamental and engineering principles used in plasma applications *Growth, Dissolution and Pattern Formation in Geosystems* B. Jamtveit, P. Meakin, 2013-03-09 This book is the proceedings of the 11th Kongsberg seminar held at the Norwegian Mining Museum in the city of Kongsberg about 70 km Southwest of Oslo The Kongsberg district is known for numerous Permian vein deposits rich in native silver Mining activity in the area lasted for more than 300 years finally ceasing in 1957 The first eight Kongsberg seminars organized by professor Arne Bjørlykke now director of the Norwegian Geological Survey were focused on ore forming processes These seminars have always been a meeting point for people with a variety of geological backgrounds Since 1995 the Kongsberg seminars have focussed on geological processes rather than on specific geological systems and the selection of invited speakers has been strongly influenced by their interest in the dynamics of geological systems In 1995 and 1996 various aspects of fluid flow and transport in rocks were emphasized The first Kongsberg proceedings of the 1995 seminar published by Chapman and Hall Jamtveit and Yardley 1997 contained 17 chapters dealing with a wide range of topics from field based studies of the effects of fluid flow in sedimentary and metamorphic rocks to computer simulations of flow in complex porous and fractured media In 1997 the focus was changed to growth and dissolution processes in geological systems World Congress on Medical Physics and Biomedical Engineering September 7 - 12, 2009 Munich, Germany Olaf Dössel, Wolfgang C. Schlegel, 2010-01-01 Present Your Research to the World The World Congress 2009 on Medical Physics and Biomedical Engineering the triennial scientific meeting of the IUPESM is the world's leading forum for presenting the results of current scientific work in health related physics and technologies to an international audience With more than 2 800 presentations it will be the biggest conference in the fields of Medical Physics and Biomedical Engineering in 2009 Medical physics biomedical engineering and bioengineering have been driving forces of innovation and progress in medicine and healthcare over the past two decades As new key technologies arise with

significant potential to open new options in diagnostics and therapeutics it is a multidisciplinary task to evaluate their benefit for medicine and healthcare with respect to the quality of performance and therapeutic output Covering key aspects such as information and communication technologies micro and nanosystems optics and biotechnology the congress will serve as an inter and multidisciplinary platform that brings together people from basic research R D industry and medical application to discuss these issues As a major event for science medicine and technology the congress provides a comprehensive overview and in depth first hand information on new developments advanced technologies and current and future applications With this Final Program we would like to give you an overview of the dimension of the congress and invite you to join us in Munich

Olaf D ssel Congress President Wolfgang C **Emerging Drug Delivery and Biomedical Engineering Technologies** Dimitrios Lamprou,2023-04-06 This book details the advances in drug discovery and delivery and the present need for emerging technologies Throughout the text new micro and nanofabrication techniques are described including methods such as electrohydrodynamic processes additive manufacturing and microfluidics which have the potential to produce drug delivery systems that were not possible a few years ago This book is of great use to both entry level and experienced researchers in the field of emerging technologies for the manufacturing of drug delivery devices Features Describes technologies that are significantly enhancing the delivery of drugs and biologics Presents new data on mobile and wearable point of care testing systems Features hot topics such as electrospinning 3D printing and micro needles Focuses on additive manufacturing AM which can be used to provide customized treatment for patients Will appeal to experienced researchers and those considering entering the field of emerging technologies for the manufacturing of drug delivery devises *World Congress on Medical Physics and Biomedical Engineering May 26-31, 2012, Beijing, China* Mian Long,2013-02-11 The congress s unique structure represents the two dimensions of technology and medicine 13 themes on science and medical technologies intersect with five challenging main topics of medicine to create a maximum of synergy and integration of aspects on research development and application Each of the congress themes was chaired by two leading experts The themes address specific topics of medicine and technology that provide multiple and excellent opportunities for exchanges

*British Qualifications 2018* Kogan Page Editorial,2017-12-03 Now in its 48th edition British Qualifications 2018 is the definitive one volume guide to every qualification on offer in the United Kingdom With an equal focus on both academic and vocational studies this essential guide has full details of all institutions and organizations involved in the provision of further and higher education and is an essential reference source for careers advisors students and employers It also includes a comprehensive and up to date description of the structure of further and higher education in the UK British Qualifications 2018 has been fully updated and includes valuable information on awards provided by over 350 professional institutions and accrediting bodies details of academic universities and colleges and a full description of the current framework of academic and vocational education It is compiled and checked annually to ensure accuracy of information NanoCellBiology Bhanu



P. Jena, Douglas J. Taatjes, 2014-04-23 This book provides a comprehensive understanding of the discovery of a new cellular structure the porosome which is the universal secretory machinery in cells the protein assembly biomineralization and biomolecular interactions the molecular evolution of protein structure the use of magnetic nanoparticles for transformative application in medicine and therapy and the new and novel imaging approach of electrical impedance spectroscopy in biology It be used for college courses in nanomedicine nano cell biology advanced nanotechnology and biotechnology at the undergraduate and graduate level      *Encyclopedia of Surface and Colloid Science* P. Somasundaran, 2006      **Proteins: Advances in Research and Application: 2011 Edition** , 2012-01-09 Proteins Advances in Research and Application 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Amino Acids Peptides and Proteins The editors have built Proteins Advances in Research and Application 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Amino Acids Peptides and Proteins 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 Proteins Advances in Research and Application 2011 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](http://www.ScholarlyEditions.com)

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