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Axio Hybrid User Manual

Joachim Friedmann



Axio Hybrid User Manual:

The bh TCSPC Handbook Dr. Wolfgang Becker, 2021-09-01 Time Correlated Single Photon Counting Modules SPC 130EMN SPC 130EMNX SPC 130IN SPC 130INX SPC 150N SPC 150NX SPC 150NXX SPC 160 SPC 160PCIE SPC 180N SPC 180NX SPC 180NXX Detectors Lasers and Peripheral Devices Simple Tau Systems Technical Principles TCSPC Applications FLIM Systems Applications in Life Sciences Clinical FLIM Applications SPCM Software SPCImage NG Data Analysis Software Time correlated single photon counting TCSPC is an amazingly sensitive technique for recording low level light signals with picosecond resolution and extremely high precision TCSPC originates from the measurement of excited nuclear states and has been used since the late 60s 775 1250 For many years TCSPC was used primarily to record fluorescence decay curves of organic dyes in solution Due to the low intensity and low repetition rate of the light sources and the limited speed of the electronics of the 70s and 80s the acquisition times were extremely long More important classic TCSPC was intrinsically one dimensional i e limited to the recording of the waveform of a periodic light signal Light sources ceased to be a limitation when the first mode locked Argon lasers and synchronously pumped dye lasers were introduced For the recording electronics the situation changed with the introduction of the SPC 300 modules of Becker multi module TCSPC systems followed in 1999 Since then the Becker Hickl TCSPC systems became bigger faster and more flexible Recent TCSPC modules like the SPC 150NX or the SPC 180 can be configured for sequential recording imaging or time tag recording by a simple software command Multi module systems like the SPC 134EM and SPC 154 can be used for scanning at unprecedented count rates and acquisition speeds Nevertheless TCSPC still has the reputation to be an extremely sluggish technique unable to record any fast changes in the fluorescence or scattering behaviour of a sample The multidimensional features of modern TCSPC are not commonly understood Thus many users do not make efficient use of their SPC modules However if appropriately used multidimensional TCSPC techniques not only deliver superior results but also solve highly sophisticated measurement problems This handbook is an attempt to help existing and potential users understand and make use of the advanced features of modern TCSPC After an introduction into the bh TCSPC devices and associated detector laser and experiment control modules the principles of advanced TCSPC techniques are described These include multidetector TCSPC multiplexed TCSPC sequential recording techniques scanning techniques parameter tag recording and multi module TCSPC techniques The next chapter describes the architecture of the bh SPC modules A chapter about detectors gives a review of detector principles and of the parameters used to characterise detectors It describes a number of detectors commonly used for TCSPC and gives advice about obtaining best performance from them The implementation of bh SPC devices is described in the next part of the handbook It includes principles and wiring diagrams for typical experiments guidelines for first system setup and advice for system optimisation It describes dead time counting loss and pile up effects detector effects and effects related to the optical system The next chapter of the handbook is dedicated to TCSPC

applications The first part of this chapter describes the measurement of fluorescence and anisotropy decay curves multispectral lifetime experiments recording of transient fluorescence lifetime phenomena and measurements of phosphorescence decay curves The second part of the chapter is dedicated to time resolved laser scanning microscopy It contains sections on a wide variety of fluorescence lifetime imaging FLIM experiments and procedures such as FLIM with various excitation principles excitation sources and detection principles high speed and time series FLIM Z stack FLIM simultaneous fluorescence and phosphorescence lifetime imaging FLIM PLIM fluorescence lifetime transient scanning FLITS and FLIM with special microscope configurations A third part contains FLIM background knowledge Signal to noise ratio acquisition time the effect of counting loss and pile up photobleaching and fluorescence depolarisation on the recorded data The book contains a large chapter on TCSPC applications most of them in Biology It contains sections on FLIM of molecular environment parameters in tissue FLIM based FRET measurements in cells autofluorescence FLIM of biological tissue plant physiology and clinical FLIM applications A section about diffuse optical tomography DOT by NIRS techniques includes breast imaging static and functional brain imaging perfusion measurement in the human brain diffuse tissue spectroscopy and small animal imaging Picosecond photon correlation fluorescence correlation spectroscopy burst integrated fluorescence lifetime techniques and photon counting histogram techniques are reviewed in the next sections The last part of the application chapter gives an review of non biological TCSPC applications like positron lifetime measurement measurement of barrier discharges remote sensing metrological applications and characterisation of detectors The application chapter also includes practical hints about optical systems detectors and other technical aspects of the applications described Another large chapter describes the SPCM operating software of the bh SPC modules It describes the various user interface configurations operation modes the system and control parameters the handling and display of the multidimensional data recorded by the modules and the associated data file structure The TCSPC Handbook also contains a chapter on the SPCImage NG fluorescence decay and FLIM data analysis software It describes the general principles of fluorescence decay analysis the calculation of fluorescence decay parameters and lifetime images by various decay models pseudo global analysis multi wavelength FLIM analysis batch processing of FLIM series and analysis of PLIM data The handbook ends with a list of more than 1200 references related to TCSPC most of them being applications of the bh SPC devices

Design Manual for Transistor Circuits John Millar Carroll, 1961 [Handbook of Liquid Metals](#) Jing Liu, Wei Rao, 2024-10-29 This handbook systematically collects the latest scientific and technological knowledge on liquid metals obtained so far in this cutting edge frontier Conventional materials such as metals polymers composites ceramics and naturally derived matters may not perform well when facing certain technological challenges At around room temperature most of such materials mainly stay at solid state and are often difficult to shape due to their high melting point Meanwhile although classical soft matters own good flexibility their electrical conductivities including more behaviours appear not good enough which

generally limited their utilizations As a game changing alternative the room temperature liquid metal materials are quickly emerging as a new generation functional material which displayed many unconventional properties superior to traditional materials Their outstanding versatile feature as One material diverse capabilities is rather unique among existing materials and thus opens many exciting opportunities for scientific technological and industrial developments This handbook presents comprehensive reference information on liquid metal science and technology that are currently available The major advancements as made before are collected and summarized Representative liquid metal applications are illustrated It helps readers obtain a comprehensive understanding of the technical progresses and fundamental discoveries in the frontier and thus better explore and utilize liquid metal materials to address various challenging needs **Vygotsky and the Social**

Formation of Mind James V. Wertsch, 1985 This book falls into three parts a biological sketch of Vygotsky an outline of his principal tenets and Wertsch's own attempt to bring them up to date His scholarship is exemplary the book is the most detailed account in English of its subject's life and work It will be welcomed by cognitive psychologists and students of development P N Johnson Laird Times Literary Supplement Narratives Crossing Boundaries Joachim

Friedmann, 2023-10-02 As the dominant narrative forms in the age of media convergence films and games call for a transmedial perspective in narratology Games allow a participatory reception of the story bringing the transgression of the ontological boundary between the narrated world and the world of the recipient into focus These diverse transgressions medial and ontological are the subject of this transdisciplinary compendium which covers the subject in an interdisciplinary way from various perspectives game studies and media studies but also sociology and psychology to take into account the great influence of storytelling on social discourses and human behavior *The New International Encyclopædia* Daniel Coit Gilman, Harry Thurston Peck, Frank Moore Colby, 1908 **Postcoloniality, Globalization, and Diaspora** Ashmita

Khasnabish, 2019-12-03 Postcoloniality Globalization and Diaspora What's Next looks forward within the field of postcolonial studies and goes beyond the notion of hybridity and postcolonial reason beyond just portraying it This volume offers a futuristic vision going beyond the common paradigms of postcoloniality diaspora and globalization speculating a framework beyond master slave dialectic This new paradigm locates a humanitarian space purifying ego through various forms writing philosophizing and theorizing new ideas Authors focus on writers from Mauritius to India **Multiphoton Microscopy and**

Fluorescence Lifetime Imaging Karsten König, 2018-01-22 This monograph demonstrates the latest developments in two photon fluorescence microscopy and second harmonic generation SHG microscopy including coverage of high resolution microscopy methods such as STED microscopy A special focus lies on clinical applications of these methods e.g. in dermatology ophthalmology neurosciences and cell biology Classical and Quantum Cosmology Gianluca

Calcagni, 2017-01-06 This comprehensive textbook is devoted to classical and quantum cosmology with particular emphasis on modern approaches to quantum gravity and string theory and on their observational imprint It covers major challenges in

theoretical physics such as the big bang and the cosmological constant problem An extensive review of standard cosmology the cosmic microwave background inflation and dark energy sets the scene for the phenomenological application of all the main quantum gravity and string theory models of cosmology Born of the author s teaching experience and commitment to bridging the gap between cosmologists and theoreticians working beyond the established laws of particle physics and general relativity this is a unique text where quantum gravity approaches and string theory are treated on an equal footing As well as introducing cosmology to undergraduate and graduate students with its pedagogical presentation and the help of 45 solved exercises this book which includes an ambitious bibliography of about 3500 items will serve as a valuable reference for lecturers and researchers

Gender and Genre in Medieval French Literature Simon Gaunt,1995-05-11 Wide ranging study of gender and the underlying ideologies of Old French and Occitan literature

Advanced Engineering Forum Vol. 33 Dumitru Nedelcu,2019-08-16 The 33rd volume of the journal Advanced Engineering Forum contains peer reviewed manuscripts describing the results of engineering solutions and research dealing with actual problems in the area of micro drilling of metal matrix composite analysis of fatigue failure and cracking of aircraft fuselage assessment of water quality in the industrial area simulation of wi fi signal propagation in the closed space and analysis of consumers behavior in mobile shopping for the goal of design e commerce objects Published articles will be useful for professionals in the various branches of engineering for students and academic staff concerned with the related specialties

Artificial Polyploidy in Plants Jen-Tsung Chen,Jeremy Coate,Geoffrey Meru,2021-01-21

The Churchman ,1890 *The New International Encyclopædia* Frank Moore Colby,Talcott Williams,1917 The New International Encyclopaedia ,1923 **New International Encyclopedia** ,1915

Nanoparticles for Cancer Immunotherapy: from Basics to Clinics Fernando Torres Andón,Clément Anfray,Paola Allavena,Maria J. Oliveira,2025-11-06 Antitumoral immunotherapies have achieved remarkable results in the treatment of a variety of cancers but there are also limitations such as low response or side effects An effective immune response against cancer requires the appropriate activity and interaction of cellular and molecular mediators involved in the cancer immunity cycle to prevent tumor progression fight against cancer cells and ultimately achieve tumor eradication Nanoparticles have been engineered to improve the delivery of a wide range of immunotherapies including small drugs nucleic acids peptides or antibodies after intravenous administration towards tumor sites but also for other routes of administration with the aim to improve their efficacy and or safety Nanotechnology approaches have been developed and evaluated i to dismantle the immunosuppressive signals in the tumor microenvironment TME ii to activate specific molecular or cellular mediators in the TME iii to improve the transport of antigens toward the appropriate immune cells in the context of cancer vaccines iv to induce immunogenic cell death thus killing cancer cells and activating antitumor immune responses and lately v to improve cell therapies or iv to advance the diagnosis of cancer progression through the tracking or quantification of molecular and cellular immune mediators In the next years new research has the potential to provide

exciting results improving tissular and cellular targeting but also applying stimuli responsive nanocarriers i e pH temperature ultrasounds or radiotherapy drug delivery strategies for combination therapies i e chemo immunotherapy or immuno radiosensitizers or other innovative approaches intended to overcome cancer resistance This Research Topic will cover both basic and clinical studies that advance our understanding of using nanotechnology in the field of cancer immunotherapy and will highlight investigations developing and evaluating new diagnostic and or therapeutic nanoparticles with the potential to improve the outcome of patients with cancer Guests Editors Paola Allavena Mar a Jos Alonso Mar a Jos Oliveira Fernando Torres And n Clement Anfray and the editorial team of Frontiers in Immunology invite submission of original and review articles related to better understanding the use of nanotechnology in cancer immunotherapy providing new approaches from basic to clinical research We welcome manuscripts from the following subtopics 1 Nanoparticles targeting and reprogramming the tumor microenvironment 2 Cancer vaccines nanoparticles delivering adjuvants and or antigens 3 Nanotechnology for improving cell immunotherapy CAR T and others 4 Using nanotechnology to deliver immunomodulatory molecules 5 Using nanoparticles for diagnostics tracking immune cells or quantification of immune signals 6 Nanoparticle interaction with innate adaptive or humoral immune mediators in the context of cancer 7 Immunomodulatory nanoparticles for combination therapies 8 Nanotechnology to overcome cancer resistance to therapy Note that manuscripts consisting solely of bioinformatics or computational analysis of public genomic or transcriptomic databases which are not accompanied by robust and relevant validation clinical cohort or biological validation in vitro or in vivo are out of scope for this topic Please also note that Topic Editor Prof Mar a Jos Alonso is the co founder of Libera Bio and Smart Vitamins *Advances in genetics and molecular breeding of ornamental plants* Shunli Wang,Byoung Ryong Jeong,Pejman Azadi,Daqiu Zhao,2023-03-31

Basal Ganglia X - Proceedings of the 10th Triennial Meeting of the International Basal Ganglia Society Charles J. Wilson,Joseargas,James M. Tepper,Elizabeth Abercrombie, This volume contains articles describing research on the basic pre clinical and clinical neuroscience of the basal ganglia written by attendees of the 10th Triennial Meeting of the International Basal Ganglia Society IBAGS that was held June 20 24th 2010 at the Ocean Place Resort in Long Branch New Jersey USA For each of the preceding 9 IBAGS meetings the meeting proceedings were published conventionally as a volume in the Advances in Behavioral Biology series These volumes were expensive were published only in very small quantities had very limited availability to both basal ganglia researchers and the general neuroscience community were not available on line and the articles contained in each were not indexed in online searchable databases Now for the first time IBAGS is taking full advantage of modern innovations in scientific publication and publishing IBAGS X as a Research Topics issue of Frontiers in Systems Neuroscience The issue will be available on line and is fully indexed by searchable databases including PubMed Articles will include reports on the latest research on the anatomy and neurophysiology of single neurons and functional circuitry in the striatum globus pallidus subthalamic nucleus

and substantia nigra as well as the latest data on animal models of basal ganglia dysfunction as well as behavioral and clinical studies in human patients

Organic Electronics From Synthesis To Applications John George Hardy, Jae Young Lee, Carlo Augusto Bortolotti, Wolfgang Knoll, Fabio Biscarini, 2020-02-03

Organic electronics is one of the most exciting emerging areas of materials science. It is a highly interdisciplinary research area involving scientists and engineers who develop organic molecules with interesting properties for a variety of applications in technical industries e.g. circuitry, energy harvesting, storage etc. and medical applications e.g. bioelectronics for sensors, tissue scaffolds for tissue engineering etc. This Research Topic collects articles that report advances in chemistry e.g. design and synthesis of molecules with various molecular weights and structures, physical chemistry and chemical physics and computational theoretical research e.g. to push the boundaries of our understanding, chemical engineering e.g. design, prototyping and manufacturing devices, materials scientists and technologists to explore different markets for the technologies employing such materials, the organic bioelectronics field and green sustainable electronics.

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