

Recent advances in selenium promoted or catalyzed electrophilic aminations of alkenes and alkynes

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Dedicated to Prof. Lorenzo Testaferri on the occasion of his 75th birthday

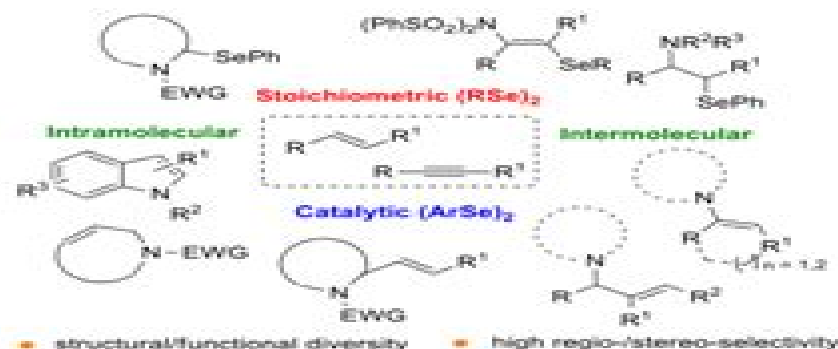
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Abstract

In the last decades, synthetic methods for the construction of carbon-nitrogen bonds rapidly grew, due to the important applications of amino compounds in fine chemicals, biological and pharmaceutical sciences. The aminoselenenylations of alkenes and alkynes are versatile reactions that usually occur with high regio- and stereo-control under mild reaction conditions. Linear and cyclic compounds can be prepared with wide functional and structural diversity using stoichiometric or catalytic amounts of electrophilic selenium reagents. This review collects recent advances in this attractive and fruitful research field.



Keywords: Selenium, aminations, diorganyl diselenides, heterocycles, alkene functionalizations

Recent Advances In Selenium Physics

Frederick Henry Newman



Recent Advances In Selenium Physics:

The Physics of Selenium and Tellurium W. Charles Cooper, 2013-09-11 The Physics of Selenium and Tellurium contains the proceedings of the International Symposium on the Physics of Selenium and Tellurium held in Montreal Canada on October 12 13 1967 and sponsored by the Selenium Tellurium Development Association Inc The papers explore the physics of selenium and tellurium with emphasis on band structure crystal growth and characterization optical properties and electrical properties This book consists of 33 chapters and opens with a review of progress in the physics of selenium and tellurium particularly with respect to the mechanical and thermal properties of trigonal selenium and tellurium and their lattice dynamics The following chapters focus on calculations of the band structure of selenium and tellurium magnetoabsorption in tellurium trapping levels in hexagonal selenium and coordination and thermal motion in crystalline selenium and tellurium Infrared active lattice vibrations in amorphous selenium and the contribution of lattice vibrations to the optical constants of tellurium are also discussed This monograph will be a useful resource for physicists

Recent Advances in Selenium Physics Symposium on solid and liquid state selenium physics (1964. Londres), 1965

Diagnostic Radiology: Recent Advances and Applied Physics in Imaging Arun Kumar Gupta, Veena Chowdhury, Niranjana Khandelwal, 2013-07-30 This second edition has been fully updated to provide radiologists with all the recent technological advances in diagnostic radiology Divided into six sections it covers all the key aspects of the imaging ultrasound computed tomography magnetic resonance imaging radiography and interventional radiography and contrast media The final section discusses miscellaneous topics including evidence based radiology radiation protection molecular imaging planning a modern imaging department and common drugs used A separate chapter is dedicated to picture archiving and data management This comprehensive new edition includes nearly 600 full colour radiological images and illustrations Key points Fully updated new edition presenting recent technological advances in diagnostic radiology Covers all key imaging techniques Includes nearly 600 radiological photographs and illustrations Previous edition published in 2007

Recent Advances in Selenium Physics, 1965

Recent Advances in Physics (non-atomic) Frederick Henry Newman, 1932

Amorphous and Liquid Semiconductors J. Tauc, 2012-12-06 Solid state physics after solving so successfully many fundamental problems in perfect or slightly imperfect crystals tried in recent years to attack problems associated with large disorder with the aim to understand the consequences of the lack of the long range order Semiconductors are much more changed by disorder than metals or insulators and appear to be the most suitable materials for fundamental work Considerable exploratory work on amorphous and liquid semiconductors was done by the Leningrad School since the early fifties In recent years much research in several countries was directed to deepen the understanding of the structural electronic optical vibrational magnetic and other properties of these materials and to possibly approach the present level of understanding of crystalline semiconductors This effort was stimulated not only by purely scientific interest but also by the possibility of new applications from which memory

devices in the general sense are perhaps the most challenging The research met with serious difficulties which are absent in crystals

An Introduction to Electrooptic Devices Ivan P. Kaminow, 2013-10-22 An Introduction to Electrooptic Devices aims to present an introduction to the electrooptic effect and to summarize work on devices employing the electrooptic effect The book provides the necessary background in classical crystal optics The text then discusses topics including crystal symmetry the tensor description of linear dielectric properties propagation in anisotropic media and passive crystal optic devices The book also describes the phenomenological description of tensor nonlinear dielectric properties of crystals with emphasis on the electrooptic effect device design and application and a listing of linear electrooptic coefficients for various substances People involved in the study of electrooptic devices will find the text invaluable

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