

## 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 75<sup>th</sup> birthday

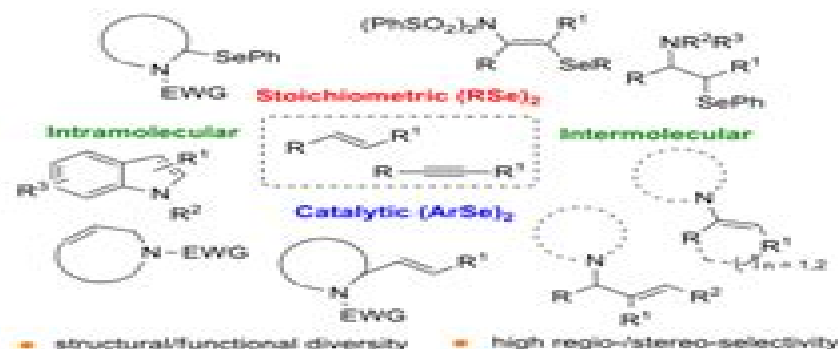
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### Abstract

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

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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



materials such as polymers and elastomer systems This section specifically looks into the potential of differential thermal analysis thermogravimetry and time of flight mass spectrometry in analysis of specific organic materials Measurements of electrical conductivity magnetic dielectric photoelectric thermodynamic and thermophysical properties are also provided

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Nail Section 10 Skin Neoplasms 36 Nonmelanoma Skin Cancers 37 Melanoma Recent Advances 38 Cutaneous Lymphomas  
 Section 11 Rheumatic Dermatology 39 Systemic Lupus Erythematosus 40 Systemic Sclerosis 41 Dermatomyositis and  
 Miscellaneous Connective Tissue Disorders Section 12 Dermatotomy Cosmetic Dermatology and Lasers 42 Grafting in  
 Vitiligo 43 Advances in Nail Surgery 44 Advances in Hair Restoration Surgery 45 Lasers New Machines and New Techniques  
 46 Newer Chemical Peels Section 13 Drugs in Dermatology 47 Cutaneous Adverse Drug Reactions 48 Drugs in Pregnancy 49  
 Newer and Investigational Topical and Systemic Drugs 50 Newer Biologics Section 14 Newer Paradigms in Dermatology 51  
 Newer Entities in Dermatology 52 Biomechanics in Dermatology 53 Role of Artificial Intelligence in Dermatology 54  
 Teledermatology and Teledermatopathology 55 3D Printing and Computer Aided Design for Designing Simple Tools in  
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 same time the method enables the analysis of heterostructures relevant to modern micro and nano electronic devices as well  
 as new materials involved in their design and fabrication First complete model description of the internal photoemission  
 phenomena Overview of the most reliable energy barrier determination procedures and trap characterization methods  
 Overview of the most recent results on band structure of high permittivity insulating materials and their interfaces with  
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## **Table of Contents Recent Advances In Selenium Physics**

1. Understanding the eBook Recent Advances In Selenium Physics
  - The Rise of Digital Reading Recent Advances In Selenium Physics
  - Advantages of eBooks Over Traditional Books
2. Identifying Recent Advances In Selenium Physics
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Recent Advances In Selenium Physics
  - User-Friendly Interface
4. Exploring eBook Recommendations from Recent Advances In Selenium Physics
  - Personalized Recommendations
  - Recent Advances In Selenium Physics User Reviews and Ratings
  - Recent Advances In Selenium Physics and Bestseller Lists
5. Accessing Recent Advances In Selenium Physics Free and Paid eBooks
  - Recent Advances In Selenium Physics Public Domain eBooks
  - Recent Advances In Selenium Physics eBook Subscription Services
  - Recent Advances In Selenium Physics Budget-Friendly Options

6. Navigating Recent Advances In Selenium Physics eBook Formats
  - ePub, PDF, MOBI, and More
  - Recent Advances In Selenium Physics Compatibility with Devices
  - Recent Advances In Selenium Physics Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Recent Advances In Selenium Physics
  - Highlighting and Note-Taking Recent Advances In Selenium Physics
  - Interactive Elements Recent Advances In Selenium Physics
8. Staying Engaged with Recent Advances In Selenium Physics
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Recent Advances In Selenium Physics
9. Balancing eBooks and Physical Books Recent Advances In Selenium Physics
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Recent Advances In Selenium Physics
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Recent Advances In Selenium Physics
  - Setting Reading Goals Recent Advances In Selenium Physics
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Recent Advances In Selenium Physics
  - Fact-Checking eBook Content of Recent Advances In Selenium Physics
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements



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