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Autore	Lohr, Charles H.
Titolo	Renaissance authors / Charles H. Lohr
Pubbl/distr/stampa	Firenze : L. S. Olschki, 1988
ISBN	8822235738
Descrizione fisica	xxv, 515 p. ; 26 cm.
Collana	Corpus philosophorum Medii Aevi. Subsidia ; 6 Latin Aristotle commentaries ; 2
Disciplina	016.185
Soggetti	Aristotele - Commentari - Repertori
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
2. Record Nr.	UNINA9910786653403321
Titolo	Metagenomics of the microbial nitrogen cycle : theory, methods and applications // Edited by Diana Marco
Pubbl/distr/stampa	Norfolk, England : , : Caister Academic Press, , [2014] ©2014
ISBN	1-908230-60-6
Descrizione fisica	1 online resource (283 p.)
Disciplina	579.17
Soggetti	Microbial ecology Nitrogen - Fixation Microbial genomics Nitrogen cycle
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.

Nota di bibliografia

Includes bibliographical references and indexes.

Nota di contenuto

Contents ; Contributors; Preface; Foreword; 1: Functional Assignment of Metagenomic Data: Insights for the Microbial Nitrogen Cycle; Introduction; Microbial nitrogen cycle; Exploring the nitrogen cycle using genomic and metagenomic techniques; Terrestrial nitrogen cycle; Aquatic nitrogen cycle; Future scope; 2: Microbial Metagenomics of Oxygen Minimum Zones; Introduction; Metagenomic insights into OMZ metabolism; Drivers of community structure; Challenges; 3: Interactions between Methane and Nitrogen Cycling: Current Metagenomic Studies and Future Trends; Introduction Interactions between methane and nitrogen cycling Current metagenomic studies; Future perspective; 4: Quantification of Functional Microbial Nitrogen Cycle Genes in Environmental Samples; Introduction; N cycle; Analysis of N cycle-related functional communities; cPCR and qPCR; Quantification of functional genes using qPCR; 5: Stable Isotope Probing the Nitrogen Cycle: Current Applications and Future Directions; Introduction; Nitrogen uptake is limited in many environments; The utility of molecular approaches; DNA stable isotope probing; ¹⁵N-DNA stable isotope probing; Nitrogen fixation Biodegradation and bioremediation Inorganic N cycling; Organic nitrogen; The way forward; Metagenomics; Combining ¹⁵N-SIP, metagenomic sequencing and flow cytometry; Protein stable isotope probing; Chip stable isotope probing; Conclusions; 6: Application of Metaproteomics to the Exploration of Microbial N-cycling Communities; Introduction; Metaproteomics and the nitrogen cycle; Protein-SIP and the nitrogen cycle; Proteomics of microbial isolates relevant to the nitrogen cycle; Conclusions; Future trends 7: Functional Molecular Analysis of Microbial Nitrogen Cycle by Microarray-based GeoChip: Insights for Climate Change, Agriculture and Other Ecological Studies Introduction; Microarray technology and functional gene array; GeoChip technology; GeoChip application in investigating N functional genes; Challenges for GeoChip technology and future directions; 8: Functional and Taxonomic Diversity of the Nitrogen Cycling Guild in the Sargasso Sea Metagenomes; Introduction; Taxonomic diversity of the Sargasso Sea microbial communities; Functional diversity of the N-cycling guild in the Sargasso Sea Discussion Exclusion by filtering; A cautionary tale on ignoring the masses; Future trends; 9: Microbial Nitrogen Cycle: Determination of Microbial Functional Activities and Related N-compounds in Environmental Samples; Introduction; Microbial functional activities of the N-cycle; Determination of some N-compounds relative to the N-cycle; 10: Functional Metagenomics of the Nitrogen Cycle in Freshwater Lakes with Focus on Methylophilic Bacteria; Introduction; Functional metagenomics uncover the dominant methylophilic, Methylobacter and Methylophilum, and identify nitrogen metabolism strategies Nitrate supplement causes specific responses by the Methylophilaceae ecotypes

Sommario/riassunto

The nitrogen (N) cycle is one of the most important nutrient cycles on the planet, and many of its steps are performed by microbial organisms. During the cycling process, greenhouse gases are formed, including nitrous oxide and methane. In addition, the use of nitrogen fertilizers increases freshwater nitrate levels, causing pollution and human health problems. A greater knowledge of the microbial communities involved in nitrogen transformations is necessary to understand and counteract nitrogen pollution. This book - written by renowned researchers who are specialized in the most relevant and

3. Record Nr.	UNINA9910520061503321
Autore	Ochsner Andreas
Titolo	Plane Finite Elements for Two-Dimensional Problems : Application of the Computer Algebra System Maxima // by Andreas Öchsner, Resam Makvandi
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2021
ISBN	3-030-89550-5
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (257 pages)
Collana	Physics and Astronomy Series
Disciplina	518.25
Soggetti	Mechanics, Applied Continuum mechanics Numerical analysis Computer simulation Computer science - Mathematics Engineering Mechanics Continuum Mechanics Numerical Analysis Computer Modelling Symbolic and Algebraic Manipulation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Introduction -- Maxima - A Computer Algebra System -- Plane Elements.-Classical Plate Elements -- Shear Deformable Plate Elements. -Graphical User Interface -- Source Codes.
Sommario/riassunto	This book is intended as a study aid for the finite element method. Based on the free computer algebra system Maxima, we offer routines to symbolically or numerically solve problems from the context of two-dimensional problems. For this rather advanced topic, classical 'hand calculations' are difficult to perform and the incorporation of a computer algebra system is a convenient approach to handle, for example, larger matrix operations. The mechanical theories focus on the classical two-dimensional structural elements, i.e., plane elements,

thin or classical plates, and thick or shear deformable plate elements. The use of a computer algebra system and the incorporated functions, e.g., for matrix operations, allows to focus more on the methodology of the finite element method and not on standard procedures. Furthermore, we offer a graphical user interface (GUI) to facilitate the model definition. Thus, the user may enter the required definitions in a source code manner directly in wxMaxima or use the GUI which is able to execute wxMaxime to perform the calculations.
