

1. Record Nr.	UNINA9911150685103321
Autore	Allan J. David
Titolo	Stream Ecology : Structure and function of running waters / / by J. David Allan
Pubbl/distr/stampa	Springer Nature, 2012
ISBN	0-412-35530-2 94-011-0729-7
Edizione	[1st ed. 1995.]
Descrizione fisica	1 online resource (XII, 388 p.)
Disciplina	574.52632 577.6/4
Soggetti	Applied ecology Freshwater ecology Marine ecology Biotic communities Population biology Conservation biology Ecology Pollution Applied Ecology Freshwater and Marine Ecology Community and Population Ecology Conservation Biology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1 Channels and flow -- 2 Streamwater chemistry -- 3 Physical factors of importance to the biota -- 4 Autotrophs -- 5 Heterotrophic energy sources -- 6 Trophic relationships -- 7 Predation and its consequences -- 8 Herbivory -- 9 Competitive interactions -- 10 Drift -- 11 Lotic communities -- 12 Organic matter in lotic ecosystems -- 13 Nutrient dynamics -- 14 Modification of running waters by humankind -- References.
Sommario/riassunto	Running waters are enormously diverse, ranging from torrential mountain brooks, to large lowland rivers, to great river systems whose

basins occupy subcontinents. While this diversity makes river ecosystems seem overwhelmingly complex, a central theme of this volume is that the processes acting in running waters are general, although the settings are often unique. The past two decades have seen major advances in our knowledge of the ecology of streams and rivers. New paradigms have emerged, such as the river continuum and nutrient spiraling. Community ecologists have made impressive advances in documenting the occurrence of species interactions. The importance of physical processes in rivers has attracted increased attention, particularly the areas of hydrology and geomorphology, and the inter-relationships between physical and biological factors have become better understood. And as is true for every area of ecology during the closing years of the twentieth century it has become apparent that the study of streams and rivers cannot be carried out by excluding the role of human activities, nor can we ignore the urgency of the need for conservation. These developments are brought together in *Stream Ecology: Structure and function of running waters*, designed to serve as a text for advanced undergraduate and graduate students, and as a reference book for specialists in stream ecology and related fields.
