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Urban metabolism represents an area of study that is considered promising in interdisciplinary research of cities and sustainability. The term urban metabolism is a concept in which the city is analysed using the biological notion referring to the internal processes by which living organisms maintain a continuous exchange of matter and energy with their environment to enable operation, growth ...

Urban metabolism and sustainability: Precedents, genesis ...

The urban metabolism of London in 2000. A summary of resource flows through London in 2000 subdivided in imports, exports, consumption, production, energy inputs, stocks and emissions. ... BEYOND 2020 - World sustainable built environment conference Gothenburg, Sweden Jun 09, 2020 - Jun 11, 2020 View event. Metabolism of Cities. Creative ...

Urban Metabolism Data Visualisations | Metabolism of Cities

Circular economy and urban metabolism concepts have recently received great attention both in the political and academic arenas, starting a roll-over process of the “take, make, and dispose” dominant economic model that is leading to an ongoing increase of resource consumption and waste generation.

Special Issue "Sustainability and Urban Metabolism"

To clarify the material flows in the urban system and understand the process of UM, this study established a model of metabolism as Fig. 1 shows. As stocks and flows in the urban system are generated or (directly) influenced by human activities, the metabolism model could be established through human activity categorization, concerning domestic behavior (e.g., eating, sleeping, and cleaning ...

Examining urban metabolism: A material flow perspective on ...

Keywords: material and immaterial drivers, post-growth, resilience and sustainability, urban metabolism, systems thinking, urban ecology, sustainable planning and design, cities. Citation: Cristiano S, Zucaro A, Liu G, Ulgiati S and Gonella F (2020) On the Systemic Features of Urban Systems. A Look at Material Flows and Cultural Dimensions to ...

Frontiers | On the Systemic Features of Urban Systems. A ...

A unified framework for analyzing urban sustainability in terms of cities' inflows and outflows of matter and energy. Urbanization and globalization have shaped the last hundred years. These two dominant trends are mutually reinforcing: globalization links countries through the networked communications of urban hubs. The urban population now generates more than eighty percent of global GDP.

Sustainable Urban Metabolism | The MIT Press

Urban Metabolism Urban Metabolism is a multi-disciplinary and integrated platform that examines material and energy flows in cities as complex systems as various social, economic and environmental forces shape them. Even though the concept of urban metabolism is nothing new in the academic world, its implementation and its conversion in practical strategies and techniques are stillRead more

Urban Metabolism - Urbanwaste

Urban metabolism is the study of the flows of resources in the urban technological environment, and of the influences of economic, political, regulatory, and social factors on the flow, use, and transformation of those resources (adapted from Graedel 1999)

URBAN METABOLISM - Autenticação

Introduction. Welcome to the Metabolism of Cities library, which holds 1,179 publications related to urban metabolism and material flow analysis, with 427 of these specifically being urban. The publications are mostly reports, theses or journal articles, which come from 168 different journals.The bulk of the publications are in English, but there are also many in Spanish, French, Dutch and German.

Library | Metabolism of Cities

We investigate the historical urban sociometabolic water demand for developing cities with the intention of illuminating how the environmental impact of water supply has changed in cities as technology has progressed. The goal of this work is to understand the conditions under which urban development is ‘sustainable’ relative to the costs ...

urban metabolism :: Urban Water Supply

In this research, system dynamics models are established to analyze the urban metabolic food-water-energy systems. System dynamics was developed in 1950; the simulation method is widely applied in industrial, engineering, natural science, and public policy fields [28,29,30,31,32,33,34,35,36].Furthermore, system dynamics can be used to examine optimal state trajectories and tradeoffs of systems ...

Urban Metabolic Analysis of a Food-Water-Energy System for ...

Assessing the effects of different land use scenarios on subsequent changes in ecosystem service has great implications for sustainable land management. Here, we designed four land use/land cover (LULC) scenarios, such as business-as-usual development (BAUD), economic development priority (EDP), ecological protection priority (EPP), and afforestation development priority (ADP), through a ...

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Dynamic modeling of Singapore’s urban resource flows: Historical trends and sustainable scenario development Tamas Abou-Abdo, Noel R. Davis, Jonathan S. Krones, Karen N. Welling, and John E ...

Dynamic modeling of Singapore’s urban resource flows ...

David Browne, Bernadette O’Regan, Richard Moles, Comparison of energy flow accounting, energy flow metabolism ratio analysis and ecological footprinting as tools for measuring urban sustainability: A case-study of an Irish city-region, Ecological Economics, 10.1016/j.ecolecon.2012.08.006, 83, (97-107), (2012).

Towards an integrated approach for sustainable city ...

Urban energy budget models By C.S.B. Grimmond, Leena Järvi, Fredrik Lindberg, Serena Marras, Matthias Falk, Thomas Loridan, Gregoire Pigeon, David R. Pyles and Donatella Spano

Urban energy budget models | Understanding Urban ...

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Publications | Metabolism of Cities

sustainable buildings renovation and sustainable management of urban metabolism. However, the renovation or retrofitting of the built environment is not an easy task as it often involves taking ...

B³-RETROTOOL: DEVELOPMENT OF A MULTI-SCALE AND MULTI ...

tion of environmental performance in cities, Sustainable Urban Metabolism is a well-written, solid piece of academic literature, albeit geared towards a more technical audience. However, judged as a book about the much larger general topic of urban sustainability and metabolism, it falls short, because the topic is so vast relative to the coverage.

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sustainable urban metabolism approach. The study is focused on the metropolitan area of Athens for which a number of alternative development scenarios are postulated and evaluated in terms of sustainability. The scenarios in this analysis do not present forecasts, but rather the