

ROUTLEDGE STUDIES IN HUMAN GEOGRAPHY



Cities and Low Carbon Transitions

Edited by Harriet Bulkeley, Vanesa Castán Broto,
Mike Hodson and Simon Marvin



Cities And Low Carbon Transitions Routledge Studies In Human Geography

Lena Bendlin



Cities And Low Carbon Transitions Routledge Studies In Human Geography:

Cities and Low Carbon Transitions Harriet Bulkeley, Vanesa Castán Broto, Mike Hodson, Simon Marvin, 2010-12-14 *Cities and Low Carbon Transitions* presents a ground breaking analysis of the role of cities in low carbon socio technical transitions Insights from the fields of urban studies and technological transitions are combined to examine how why and with what implications cities bring about low carbon transitions The book outlines the key concepts underpinning theories of socio technical transition and assesses its potential strengths and limits for understanding the social and technological responses to climate change that are emerging in cities It draws on a diverse range of examples including world cities ordinary cities and transition towns from North America Europe South Africa and China to provide evidence that expectations aspirations and plans to undertake purposive socio technical transitions are emerging in different urban contexts

Cities and Low Carbon Transitions Harriet Bulkeley, Vanesa Castán Broto, Mike Hodson, Simon Marvin, 2010-12-14 Current societies face unprecedented risks and challenges connected to climate change Addressing them will require fundamental transformations in the infrastructures that sustain everyday life such as energy water waste and mobility A transition to a low carbon future implies a large scale reorganisation in the way societies produce and use energy Cities are critical in this transition because they concentrate social and economic activities that produce climate change related emissions At the same time cities are increasingly recognised as sources of opportunities for climate change mitigation Whether how and why low carbon transitions in urban systems take place in response to climate change will therefore be decisive for the success of global mitigation efforts As a result climate change increasingly features as a critical issue in the management of urban infrastructure and in urbanisation policies *Cities and Low Carbon Transitions* presents a ground breaking analysis of the role of cities in low carbon socio technical transitions Insights from the fields of urban studies and technological transitions are combined to examine how why and with what implications cities bring about low carbon transitions The book outlines the key concepts underpinning theories of socio technical transition and assesses its potential strengths and limits for understanding the social and technological responses to climate change that are emerging in cities It draws on a diverse range of examples including world cities ordinary cities and transition towns from North America Europe South Africa and China to provide evidence that expectations aspirations and plans to undertake purposive socio technical transitions are emerging in different urban contexts This collection adds to existing literature on cities and energy transitions and introduces critical questions about power and social interests lock in and development trajectories social equity and economic development and socio technical change in cities The book addresses academics policy makers practitioners and researchers interested in the development of systemic responses in cities to curb climate change

[The Palgrave Handbook of Zero Carbon Energy Systems and Energy Transitions](#) Geoffrey Wood, Vincent Onyango, Komali Yenneti, Mariana Liakopoulou, 2024-10-08 *The Palgrave Handbook of Zero Carbon Energy Systems and Energy Transitions* provides a comprehensive and authoritative

source of information analysis and recommendations on the multi and inter disciplinary subject of zero carbon energy systems The Handbook will advance thinking and research underlying the on going energy transition by covering a wide range of energy technologies and sources e g fossil fuels renewables low carbon energy including investigating the potential of new and alternative technologies and fuel sources and looking at the power heating cooling and transport sectors Looking at varied legal jurisdictions and governance approaches including developing and developed countries and investigating potential new approaches to achieving a zero carbon energy system Providing a broad range of theoretical and methodological approaches from a range of disciplines Inclusion of a global range of case studies from Africa Arctic Asia Australasia Europe the Middle East the Americas Central North and South and the Pacific from the international national sub national to city community level

Renewable Energy Based Solutions Tanay Sıdkı Uyar,Nader Javani,2022-11-01 This book discusses the main renewable energy resources along with the current challenges that make it difficult achieve 100% decarbonized energy sources It presents the perspectives of international expert authors in the field giving readers a multi dimensional view of the subject The book explores numerous approaches for a smooth transition from fossil fuels to renewable energies including those based on engineering methods as well as policies strategies and social perceptions It presents several case studies and examples from industry showcasing the potential role of renewable sources and their challenges The inclusion of both established methods and cutting edge developments will make this book of interest to academics industry professionals policy makers and graduate students alike

Orchestrating Local Climate Policy in the European Union Lena Bendlin,2019-05-13 Can we sidestep tedious climate policy negotiations and forge a coalition of the willing instead Many international organizations and scholars hope to spur local climate action by orchestration indirect and voluntary governance arrangements Lena Bendlin looks beyond the apparent success of voluntary initiatives using the example of the Covenant of Mayors often heralded as an exemplary multi level EU initiative Five in depth case studies show why how and with what difficulties local governments engage in this voluntary commitment scheme The analysis identifies durability intensity and causality as crucial building blocks for more cautious orchestration theorizing and derives recommendations for appropriate incentives and support at the regional national and international level

Artificial Intelligence of Things for Smarter Eco-Cities Simon Elias Bibri,2024-12-30 This book takes readers on a captivating journey into the transformative role of Artificial Intelligence AI and AI of Things AIoT technologies in reshaping sustainable urban development By combining comprehensive theoretical analyses synthesized empirical evidence and practical case studies it offers pioneering interdisciplinary insights and unifying frameworks The book highlights the synergistic integration of Urban Brain UB Urban Digital Twin UDT Smart Urban Metabolism SUM and platform urbanism underscored by their collaborative potential to revolutionize the environmental management planning and governance of smarter eco cities and sustainable smart cities It leverages cutting edge technologies and data driven approaches to optimize urban systems

resource efficiency and resilience This approach provides a holistic understanding of the rapidly evolving landscape of AI and AIoT driven sustainable urban development Targeting a broad and diverse audience across multiple disciplines and fields the book aims to share state of the art research present innovative solutions and forecast future trends in urban sustainability As both a seminal reference and a valuable resource for researchers practitioners industry experts and policymakers it provides essential guidance for those engaged in driving technological innovation steering urban transformation promoting

environmental sustainability or working at the crossroads of these critical areas **Handbook of Urban Geography** Tim Schwanen,Ronald van Kempen,2019 This collection brings together the latest thinking in urban geography It provides a comprehensive overview of topical issues and draws on experiences from across the world Chapters have been prepared by leading researchers in the field and cover themes as diverse as urban economies inequalities and diversity conflicts and politics ecology and sustainability and information technologies The Handbook offers a valuable resource for students and researchers interested in cities and the urban in geography and across the wider social sciences *Local Energy*

Communities Gilles Debizet,Marta Pappalardo,Frédéric Wurtz,2022-09-06 This book draws on social science analysis to understand the ongoing dynamics within and surrounding local energy communities in reliably electrified countries Belgium Canada Colombia France Germany India the Netherlands Spain Switzerland and the United Kingdom It offers a comprehensive overview of recent results and thus outlines a diversity of drivers and levers for scaling up energy communities or at least local energy sharing Analysing the main types of energy communities such as collective self consumption citizen cooperatives and peer to peer digital platforms the book does not only raise new questions for social scientists but also offers a comprehensive overview for all those contributing to the circular economy and the decentralization of energy production in inhabited areas where energy consumption is concentrated This book provides input for the ongoing debates in many European countries implementing the national law on the European directives for energy communities Furthermore without evading the antagonism between cooperative and market approaches or the contradictions between different issues the book outlines the innovative decision making tools that can facilitate the development of local energy production and sharing systems As well as being of interest to postgraduates and researchers in the field of energy studies this book will be vital to energy professionals looking to support local energy communities decision making and design who wish to consider sociological organizational and territorial dimensions Urban Regeneration

Through Valuation Systems for Innovation Francesca Abastante,Marta Bottero,Chiara D'Alpaos,Luisa Ingaramo,Alessandra Oppio,Paolo Rosato,Francesca Salvo,2022-09-20 This book examines the role of the evaluation models in decision making processes for the construction of circular cities in the digital revolution In particular the book explores the need for a rethinking of development models proposed by the circular economy which requires the valorization of natural social and economic capital Urban environment represents a crucial field of analysis in which applying the circular economy principles

in order to steer a course towards a sustainable economy characterized by processes meant to create value instead of extracting it which put a step forward in the pathway towards a better future in terms of economic environmental and social effects and desirable outcomes In this context the design of urban regeneration processes and housing environments requires the adoption of inclusive analysis assessment models combined with the structuring and organization of public private investments that can contribute to creating positive natural and social impacts as well as economic and financial returns This fundamental paradigm shift is accentuated in the current context in which the digital revolution is reinventing the future and calls for a rethinking and reformulation of value systems in the era of technological process innovations while respecting economic natural and social ecosystems *Sustainability Science* Ariane König,Jerome Ravetz,2017-11-22

Sustainability Science Key Issues is a comprehensive textbook for undergraduates postgraduates and participants in executive trainings from any disciplinary background studying the theory and practice of sustainability science Each chapter takes a critical and reflective stance on a key issue or method of sustainability science Contributing authors offer perspectives from diverse disciplines including physics philosophy of science agronomy geography and the learning sciences This book equips readers with a better understanding of how one might actively design engage in and guide collaborative processes for transforming human environment technology interactions whilst embracing complexity contingency uncertainties and contradictions emerging from diverse values and world views Each reader of this book will thus have guidance on how to create and or engage in similar initiatives or courses in their own context *Sustainability Science Key Issues* is the ideal book for students and researchers engaged in problem and project based learning in sustainability science

Thank you for downloading **Cities And Low Carbon Transitions Routledge Studies In Human Geography**. Maybe you have knowledge that, people have look hundreds times for their favorite readings like this Cities And Low Carbon Transitions Routledge Studies In Human Geography, but end up in infectious downloads.

Rather than reading a good book with a cup of coffee in the afternoon, instead they are facing with some infectious virus inside their desktop computer.

Cities And Low Carbon Transitions Routledge Studies In Human Geography is available in our book collection an online access to it is set as public so you can download it instantly.

Our book servers hosts in multiple countries, allowing you to get the most less latency time to download any of our books like this one.

Kindly say, the Cities And Low Carbon Transitions Routledge Studies In Human Geography is universally compatible with any devices to read

<http://www.digitalismags.com/results/uploaded-files/index.jsp/Crucible%20Act%20One%20Study%20Guide.pdf>

Table of Contents Cities And Low Carbon Transitions Routledge Studies In Human Geography

1. Understanding the eBook Cities And Low Carbon Transitions Routledge Studies In Human Geography
 - The Rise of Digital Reading Cities And Low Carbon Transitions Routledge Studies In Human Geography
 - Advantages of eBooks Over Traditional Books
2. Identifying Cities And Low Carbon Transitions Routledge Studies In Human Geography
 - 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 Cities And Low Carbon Transitions Routledge Studies In Human Geography
 - User-Friendly Interface

4. Exploring eBook Recommendations from Cities And Low Carbon Transitions Routledge Studies In Human Geography
 - Personalized Recommendations
 - Cities And Low Carbon Transitions Routledge Studies In Human Geography User Reviews and Ratings
 - Cities And Low Carbon Transitions Routledge Studies In Human Geography and Bestseller Lists
5. Accessing Cities And Low Carbon Transitions Routledge Studies In Human Geography Free and Paid eBooks
 - Cities And Low Carbon Transitions Routledge Studies In Human Geography Public Domain eBooks
 - Cities And Low Carbon Transitions Routledge Studies In Human Geography eBook Subscription Services
 - Cities And Low Carbon Transitions Routledge Studies In Human Geography Budget-Friendly Options
6. Navigating Cities And Low Carbon Transitions Routledge Studies In Human Geography eBook Formats
 - ePub, PDF, MOBI, and More
 - Cities And Low Carbon Transitions Routledge Studies In Human Geography Compatibility with Devices
 - Cities And Low Carbon Transitions Routledge Studies In Human Geography Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Cities And Low Carbon Transitions Routledge Studies In Human Geography
 - Highlighting and Note-Taking Cities And Low Carbon Transitions Routledge Studies In Human Geography
 - Interactive Elements Cities And Low Carbon Transitions Routledge Studies In Human Geography
8. Staying Engaged with Cities And Low Carbon Transitions Routledge Studies In Human Geography
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Cities And Low Carbon Transitions Routledge Studies In Human Geography
9. Balancing eBooks and Physical Books Cities And Low Carbon Transitions Routledge Studies In Human Geography
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Cities And Low Carbon Transitions Routledge Studies In Human Geography
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Cities And Low Carbon Transitions Routledge Studies In Human Geography
 - Setting Reading Goals Cities And Low Carbon Transitions Routledge Studies In Human Geography

- Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Cities And Low Carbon Transitions Routledge Studies In Human Geography
 - Fact-Checking eBook Content of Cities And Low Carbon Transitions Routledge Studies In Human Geography
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

Cities And Low Carbon Transitions Routledge Studies In Human Geography Introduction

Cities And Low Carbon Transitions Routledge Studies In Human Geography Offers over 60,000 free eBooks, including many classics that are in the public domain. Open Library: Provides access to over 1 million free eBooks, including classic literature and contemporary works. Cities And Low Carbon Transitions Routledge Studies In Human Geography Offers a vast collection of books, some of which are available for free as PDF downloads, particularly older books in the public domain. Cities And Low Carbon Transitions Routledge Studies In Human Geography : This website hosts a vast collection of scientific articles, books, and textbooks. While it operates in a legal gray area due to copyright issues, its a popular resource for finding various publications. Internet Archive for Cities And Low Carbon Transitions Routledge Studies In Human Geography : Has an extensive collection of digital content, including books, articles, videos, and more. It has a massive library of free downloadable books. Free-eBooks Cities And Low Carbon Transitions Routledge Studies In Human Geography Offers a diverse range of free eBooks across various genres. Cities And Low Carbon Transitions Routledge Studies In Human Geography Focuses mainly on educational books, textbooks, and business books. It offers free PDF downloads for educational purposes. Cities And Low Carbon Transitions Routledge Studies In Human Geography Provides a large selection of free eBooks in different genres, which are available for download in various formats, including PDF. Finding specific Cities And Low Carbon Transitions Routledge Studies In Human Geography, especially related to Cities And Low Carbon Transitions Routledge Studies In Human Geography, might be challenging as theyre often artistic creations rather than practical blueprints. However, you can explore the following steps to search for or create your own Online Searches: Look for websites, forums, or blogs dedicated to Cities And Low Carbon Transitions Routledge Studies In Human Geography, Sometimes enthusiasts share their designs or concepts in PDF format. Books and Magazines Some Cities And Low Carbon

Transitions Routledge Studies In Human Geography books or magazines might include. Look for these in online stores or libraries. Remember that while Cities And Low Carbon Transitions Routledge Studies In Human Geography, sharing copyrighted material without permission is not legal. Always ensure you're either creating your own or obtaining them from legitimate sources that allow sharing and downloading. Library Check if your local library offers eBook lending services. Many libraries have digital catalogs where you can borrow Cities And Low Carbon Transitions Routledge Studies In Human Geography eBooks for free, including popular titles. Online Retailers: Websites like Amazon, Google Books, or Apple Books often sell eBooks. Sometimes, authors or publishers offer promotions or free periods for certain books. Authors Website Occasionally, authors provide excerpts or short stories for free on their websites. While this might not be the Cities And Low Carbon Transitions Routledge Studies In Human Geography full book, it can give you a taste of the authors writing style. Subscription Services Platforms like Kindle Unlimited or Scribd offer subscription-based access to a wide range of Cities And Low Carbon Transitions Routledge Studies In Human Geography eBooks, including some popular titles.

FAQs About Cities And Low Carbon Transitions Routledge Studies In Human Geography Books

What is a Cities And Low Carbon Transitions Routledge Studies In Human Geography PDF? A PDF (Portable Document Format) is a file format developed by Adobe that preserves the layout and formatting of a document, regardless of the software, hardware, or operating system used to view or print it. **How do I create a Cities And Low Carbon Transitions Routledge Studies In Human Geography PDF?** There are several ways to create a PDF: Use software like Adobe Acrobat, Microsoft Word, or Google Docs, which often have built-in PDF creation tools. Print to PDF: Many applications and operating systems have a "Print to PDF" option that allows you to save a document as a PDF file instead of printing it on paper. Online converters: There are various online tools that can convert different file types to PDF. **How do I edit a Cities And Low Carbon Transitions Routledge Studies In Human Geography PDF?** Editing a PDF can be done with software like Adobe Acrobat, which allows direct editing of text, images, and other elements within the PDF. Some free tools, like PDFescape or Smallpdf, also offer basic editing capabilities. **How do I convert a Cities And Low Carbon Transitions Routledge Studies In Human Geography PDF to another file format?** There are multiple ways to convert a PDF to another format: Use online converters like Smallpdf, Zamzar, or Adobe Acrobats export feature to convert PDFs to formats like Word, Excel, JPEG, etc. Software like Adobe Acrobat, Microsoft Word, or other PDF editors may have options to export or save PDFs in different formats. **How do I password-protect a Cities And Low Carbon Transitions Routledge Studies In Human Geography PDF?** Most PDF editing software allows you to add password protection. In Adobe Acrobat, for instance, you can go to "File" -> "Properties" -> "Security" to set a password to restrict access or editing capabilities. Are

there any free alternatives to Adobe Acrobat for working with PDFs? Yes, there are many free alternatives for working with PDFs, such as: LibreOffice: Offers PDF editing features. PDFsam: Allows splitting, merging, and editing PDFs. Foxit Reader: Provides basic PDF viewing and editing capabilities. How do I compress a PDF file? You can use online tools like Smallpdf, ILovePDF, or desktop software like Adobe Acrobat to compress PDF files without significant quality loss. Compression reduces the file size, making it easier to share and download. Can I fill out forms in a PDF file? Yes, most PDF viewers/editors like Adobe Acrobat, Preview (on Mac), or various online tools allow you to fill out forms in PDF files by selecting text fields and entering information. Are there any restrictions when working with PDFs? Some PDFs might have restrictions set by their creator, such as password protection, editing restrictions, or print restrictions. Breaking these restrictions might require specific software or tools, which may or may not be legal depending on the circumstances and local laws.

Find Cities And Low Carbon Transitions Routledge Studies In Human Geography :

~~crucible act one study guide~~

~~crossp ti nspire~~

crown lp3010 3020 series lift truck service maintenance manual

crucible movie study guide

cruelty and laughter forgotten comic literature and the unsentimental eighteenth century

crisp logos the development of visual symbols

crown victoria 2000 fuse diagram

crochet dog sweater patterns

~~crossfit training manual espanhol~~

critica de la razon pura spanish edition

~~cross cultural business negotiations cross cultural business negotiations~~

crucible literature guide act 1 comprehension check

critical discourse analysis and cognitive science new perspectives on immigration discourse

crucible literature guide character relationships

crosswords bible study thessalonians hebrews

Cities And Low Carbon Transitions Routledge Studies In Human Geography :

Bikini Body Guide: Exercise & Training Plan Kayla Itsines Healthy Bikini Body Guide are for general health improvement

recommendations only and are not intended to be a substitute for professional medical. FREE 8 week bikini body guide by Kayla Itsines Dec 24, 2017 — FREE 8 week bikini body guide by Kayla Itsines This 8 week plan cost me £50 so make the most of this while it lasts!! Free High Intensity with Kayla (formerly BBG) Workout Dec 20, 2017 — Try a FREE High Intensity with Kayla workout! Work up a sweat & challenge yourself with this circuit workout inspired by my program. Kayla Itsines' 28-day Home Workout Plan - No Kit Needed Jun 2, 2020 — Kayla Itsines workout: This 28-day plan is for all fitness levels, to help you tone-up and get fit without the gym. Kayla Itsines' Bikini Body Guide Review Oct 11, 2018 — This is the workout program by Instagram sensation Kayla Itsines. These circuit-style workouts promise to get you in shape in just 28 minutes a ... (PDF) KaylaItsines BBTG | Ehi Ediale The Bikini Body Training Company Pty Ltd. "Kayla Itsines Healthy Bikini Body Guide" is not Therefore no part of this book may in any form written to promote ... You can now do Kayla Itsines' Bikini Body Guide fitness ... Mar 31, 2020 — Fitness icon Kayla Itsines is offering her Bikini Body Guide fitness program free · New members have until April 7th to sign up to Sweat app to ... The Anna Russell Song Book ... Illustrated by Michael Ffolkes In this book are found some of the most brilliant gems in Miss Russell's collection complete with piano accompaniment and guitar chords. The Anna Russell Song Book La Russell was the funniest woman in the concert world. Now YOU can perform Anna's screamingly funny repertoire. Includes full piano parts and clever ... The Anna Russell Song Book Free Shipping - ISBN: 9780880292634 - Paperback - Dorset Press - 1988 - Condition: Good - No Jacket - Pages can have notes/highlighting. The Anna Russell Song Book Buy a cheap copy of THE ANNA RUSSELL SONG BOOK book by Anna Russell. Softcover book, 1988. Music and lyrics. Free Shipping on all orders over \$15. The Anna Russell Song Book Including How To Write Your Own Gilbert And Sullivan Opera. The Anna Russell Song Book (Paperback). Publisher, Literary Licensing, LLC. The Anna Russell song book - Catalog - UW-Madison Libraries Creator: by Anne Russell ; illustrated by Michael Ffolkes ; Format: Music Scores ; Language: English ; Contributors. Ffolkes, Michael, illustrator ; Publication. The Anna Russell Song Book. Title: The Anna Russell Song Book. Publisher: Elek Books. Publication Date: 1960. Binding: Hardcover. Condition: very good. Edition ... The Anna Russell song book Authors: Anna Russell (Arranger, Lyricist), Michael Ffolkes (Illustrator). Front cover image for The Anna Russell song book. Musical Score, English, 1988. THE ANNA RUSSELL SONG BOOK By Anna And Michael ... THE ANNA RUSSELL SONG BOOK By Anna And Michael Ffolkes Russell ****Excellent**** ; Quantity. 1 available ; Item Number. 225550797186 ; ISBN-10. 0880292636 ; Book Title. The Anna Russell Song Book Dust jacket has two closed tears to top of front and rear covers. 72 pages. Dust Jacket price-clipped. Illustrator: Michael Ffolkes. Quantity Available: 1. The Encyclopedia of Psychoactive Plants ... The most comprehensive guide to the botany, history, distribution, and cultivation of all known psychoactive plants • Examines 414 psychoactive plants and ... The Encyclopedia of Psychoactive Plants The most comprehensive guide to the botany, history, distribution, and cultivation of all known psychoactive plants • Examines 414 psychoactive plants and ... The Encyclopedia of Psychoactive Plants ... The most comprehensive guide to the botany, history, distribution, and cultivation of

all known psychoactive plants • Examines 414 psychoactive plants and ... The Encyclopedia of Psychoactive Plants The most comprehensive guide to the botany, history, distribution, and cultivation of all known psychoactive plants • Examines 414 psychoactive plants and ... The Encyclopedia of Psychoactive Plants The most comprehensive guide to the botany, history, distribution, and cultivation of all known psychoactive plants • Examines 414 psychoactive. The Encyclopedia of Psychoactive Plants by Christian Rätsch ... The most comprehensive guide to the botany, history, distribution, and cultivation of all known psychoactive plants • Examines 414 psychoactive plants and ... The Encyclopedia of Psychoactive Plants The most comprehensive guide to the botany, history, distribution, and cultivation of all known psychoactive plants • Examines 414 psychoactive plants and ... Encyclopedia of Psychoactive Plants - Berkeley Encyclopedia of Psychoactive Plants. Encyclopedia of Psychoactive Plants. Product Image. Product Description. Ratsch. Growing Standard: Lhasa Karnak. In stock ... The Encyclopedia of Psychoactive Plants This book details the history, botany, and use of psychoactive plants and is lavishly illustrated with color photographs of the people, ceremonies, and art ... The Encyclopedia of Psychoactive Plants ... The most comprehensive guide to the botany, history, distribution, and cultivation of all known psychoactive plants · Examines 414 psychoactive plants and ...