Ecological Consequences of Artificial Night Lighting

Edited by

Catherine Rich • Travis Longcore

Ecological Consequences Of Artificial Night Lighting

Minjie Lin

Ecological Consequences Of Artificial Night Lighting:

Ecological Consequences of Artificial Night Lighting Catherine Rich, Travis Longcore, 2013-04-16 While certain ecological problems associated with artificial night lighting are widely known for instance the disorientation of sea turtle hatchlings by beachfront lighting the vast range of influences on all types of animals and plants is only beginning to be recognized From nest choice and breeding success of birds to behavioral and physiological changes in salamanders many organisms are seriously affected by human alterations in natural patterns of light and dark Ecological Consequences of Artificial Night Lighting is the first book to consider the environmental effects of the intentional illumination of the night It brings together leading scientists from around the world to review the state of knowledge on the subject and to describe specific effects that have been observed across a full range of taxonomic groups including mammals birds reptiles and amphibians fishes invertebrates and plants Ecological Consequences of Artificial Night Lighting provides a scientific basis to begin addressing the challenge of conserving the nighttime environment It cogently demonstrates the vital importance of this until now neglected topic and is an essential new work for conservation planners researchers and anyone concerned with human impacts on the natural world General and Comparative Endocrinology A.M. Schreiber, 2023-11-24 Introduces the broad and interdisciplinary scope of endocrinology Provides clear chapter objectives key concepts and summaries synthesis for each chapter Includes a chapter devoted to endocrine disrupting chemicals Describes the role played by the endocrine system on important health challenges such as obesity and diabetes Integrates evolutionary and comparative approaches to hormones and health Environmental Engineering III Lucjan Pawlowski, Marzenna R. Dudzinska, Artur Pawlowski,2010-03-23 Environmental engineering has a leading role in the elimination of ecological threats and can deal with a wide range of technical and technological problems due to its interdisciplinary character It uses the knowledge of the basic sciences biology chemistry biochemistry and physics to neutralize pollution in all the elements of the environm

Nanotechnology for Light Pollution Reduction Tuan Anh Nguyen, Ram K. Gupta, 2022-09-07 Light is essential for living organisms however excessive light causes adverse health conditions This book covers the most recent progress on nanotechnology for reducing light pollution discussing many approaches and technologies for controlling light pollution The book explores the fundamentals of light and the causes of light pollution delving into light pollution s social economic and ecological impacts its effects on living beings and the environment as well as possible solutions and methods of control The text discusses smart lighting technology covering the various smart nanomaterials nanosensors and nanodevices involved It also explores smart lighting involving natural light from the sun artificial skydomes shadow free secondary light sources and the basics of many emerging devices such as light emitting diodes and photosensors Nanotechnology is key to providing a new route for the next generation of lighting devices and systems with reduced light pollution This essential reference illuminates emerging technologies and their applications providing new directions to scientists researchers and students to

better understand the principles technologies and applications of nanotechnology in light pollution **Behavioural** Responses to a Changing World Bob B. M. Wong, Ulrika Candolin, 2025-04-23 For many animals behavioural adjustments represent the first response to human modified conditions By improving reproduction and survival such adjustments can play the lead in maintaining viable populations in the face of rapid environmental change Behavioural responses however can also be maladaptive and reduce individual fitness particularly if favourable reaction norms have not yet evolved because animals are encountering conditions that they have never experienced before Clearly behaviour matters But how can we capitalise on our understanding of animal behaviour to improve conservation and management outcomes Behavioural Responses to a Changing World Challenges and Applications a companion volume to the first edition published in 2012 examines wildlife behavioural responses to human induced environmental change through a translational lens Despite considerable and growing interest in research on the topic the predictive value and practical application of what has been learned remains underappreciated and underutilized in the context of developing real world solutions To redress this the current book builds upon the foundations of the original volume but with a more applied perspective that focuses on highlighting how different forms of environmental challenges from climate change to urbanisation influence animal behaviour and how we can effectively harness knowledge of animal behaviour to effect practical solutions to predicting and mitigating the weighty **Urban Forests, Climate Change and Environmental Pollution** impacts of a radically changed and changing world Hukum Singh, 2024-12-03 This book contributes significantly to the international literature by bringing forth a novel and comprehensive exploration of urban resilience in the face of climate change and environmental pollution Its focus on integrating physiological biochemical and molecular dimensions distinguishes it from existing literature The book offers several key contributions including an interdisciplinary approach to understanding the complex interactions within urban ecosystems It includes cutting edge insights that have not been extensively explored in existing literature practical applications and evidence based strategies to enhance urban sustainability and resilience The book has a global relevance to a diverse international readership and provides strategic guidance to policymakers and urban planners when making decisions to develop evidence based strategies that cater to the specific challenges of cities Urban forests play a critical role in enhancing the resilience of cities by providing numerous benefits including improved air quality reduced urban heat island effect and enhanced biodiversity ultimately improving urban health Besides urban forests are a crucial natural based solution NbS to mitigate air pollution and climate change impacts in cities However in the face of climate change and environmental pressures urban forests face significant challenges to their survival and functionality. This book explores the complex morpho physio biochemical and molecular changes that enable urban forests to flourish amidst climate change and environmental pollution It examines how urban trees modulate their morphological structures including root systems and physiological and biochemical functioning and molecular alterations to withstand changing urban climatic and environmental conditions

Light Pollution, Urbanization and Ecology Levente Hufnagel,2022-03-30 Light Pollution Urbanization and Ecology presents a comprehensive review of light pollution including scientific research on the ecological impacts of artificial illumination in urban regions Chapters cover such topics as general ecological aspects plants invertebrate and vertebrate biology and environmental and landscape architecture aspects of this interesting and important topic **Anthropocene: Conservation of Bats in a Changing World** Christian C. Voigt, Tigga Kingston, 2015-12-07 This book focuses on central themes related to the conservation of bats It details their response to land use change and management practices intensified urbanization and roost disturbance and loss Increasing interactions between humans and bats as a result of hunting disease relationships occupation of human dwellings and conflict over fruit crops are explored in depth Finally contributors highlight the roles that taxonomy conservation networks and conservation psychology have to play in conserving this imperilled but vital taxon With over 1300 species bats are the second largest order of mammals yet as the Anthropocene dawns bat populations around the world are in decline Greater understanding of the anthropogenic drivers of this decline and exploration of possible mitigation measures are urgently needed if we are to retain global bat diversity in the coming decades This book brings together teams of international experts to provide a global review of current understanding and recommend directions for future research and mitigation 2012, Park Science The Routledge Handbook of Urban Ecology Ian Douglas, PM L Anderson, David Goode, Michael C. Houck, David Maddox, Harini Nagendra, Puay Yok Tan, 2020-12-15 This second edition covers recent developments around the world with contributors from 33 different countries It widens the handbook's scope by including ecological design consideration of cultural dimensions of the use and conservation of urban nature the roles of government and civil society and the continuing issues of equity and fairness in access to urban greenspaces New features include an emphasis on the biophilic design of homes and workplaces demonstrating the value of nature in order to counter the still prevalent attitude among many developers that nature is a constraint rather than a value The volume explores great practical achievements that have occurred since the first edition with many governments increasingly recognizing and legislating on urban nature and green infrastructure matters since cities play a major role in adapting to change particularly to climate crisis New topics such as the ecological role of light at night and human microbiota in the urban ecosystem are introduced Additional attention is given to food production in cities particularly the multiple roles of urban agriculture and household gardens in different contexts from wealthy communities to the poorest informal settlements in deprived communities The emphasis is on demonstrating what can be achieved and what is already being done The book aims to help scholars and graduate students by providing an invaluable and up to date guide to current urban ecological thinking across the range of disciplines such as geography ecology environmental science studies planning and urban studies that converge in the study of towns and cities and urban design and living It will also assist practitioners and civil society members in discovering the ways diff erent specialists and thinkers approach urban nature

The Darkness Manifesto Johan Eklöf, 2023-02-14 Winner of the Penn Libraries Book Prize in Sustainability Named a Best Book of the Year by Scientific American This timely and captivating look at the hidden impact of light pollution is rich in revelation and insight lyrical The Wall Street Journal and urges us to cherish natural darkness for the sake of the environment our own well being and all life on earth How much light is too much light Satellite pictures show our planet as a brightly glowing orb and in our era of constant illumination light pollution has become a major issue The world's flora and fauna have evolved to operate in the natural cycle of day and night But in the last 150 years we have extended our day and in doing so have forced out the inhabitants of the night and disrupted the circadian rhythms necessary to sustain all living things including ourselves In this well researched and surprisingly lyrical The New Statesman UK book Swedish conservationist Johan Ekl furges us to appreciate natural darkness its creatures and its unique benefits He ponders the beauties of the night sky traces the errant paths of light drunk moths and the swift dives of keen eyed owls and shows us the bioluminescent creatures of the deepest oceans As a devoted friend of the night Ekl f reveals the startling domino effect of diminishing darkness insects dumbfounded by streetlamps failing to reproduce birds blinded and bewildered by artificial lights and bats starving as they wait in vain for insects that only come out in the dark For humans light induced sleep disturbances impact our hormones and weight and can contribute to mental health problems like chronic stress and depression The streetlamps floodlights and neon signs of cities are altering entire ecosystems and scientists are only just beginning to understand their long term effects The light bulb long the symbol of progress and development needs to be turned off Urgent vivid eye opening Publishers Weekly and ultimately encouraging The Darkness Manifesto outlines simple steps that we can take to benefit ourselves and the planet In order to ensure a bright future we must embrace the darkness

Constructed Ecologies Margaret Grose, 2017-03-16 Today designers are shifting the practice of landscape architecture towards the need for a more complex understanding of ecological science Constructed Ecologies presents ecology as critical theory for design and provides major ideas for design that are supported with solid and imaginative science In the questioning narrative of Constructed Ecologies the author discards many old and tired theories in landscape architecture With detailed documentation she casts off the savannah theory critiques the search for universals reveals the needed role of designers in large scale agriculture abandons the overlay technique of McHarg and introduces the ecological and urban health urgency of public night lighting Margaret Grose presents wide ranging new approaches and shows the importance of learning from science for design of going beyond assumptions of working in multiple rather than single issues of disrupting linear design thinking and of dealing with data This book is written with a clear voice by an ecologist and landscape architect who has led design students into loving ecological science for the support it gives design Environmental Health

Perspectives ,2009-07 Towns, Ecology, and the Land Richard T. T. Forman,2019-02-07 Towns and villages are sometimes viewed as minor even quaint spots whereas this book boldly reconceptualizes these places as important dynamic

environmental hotspots Multitudes of towns and villages with nearly half the world's population characterize perhaps half the global land surface The book s pages feature ecological patterns processes and change as well as human dimensions both within towns and in strong connections and effects on surrounding agricultural land forest land and arid land Towns small to large and villages are examined with spatial and cultural lenses Ecological dimensions water soil and air systems together with habitats plants wildlife and biodiversity are highlighted A concluding section presents concepts for making better towns and better land From a pioneer in both landscape ecology and urban ecology this highly international town ecology book opens an important frontier for researchers students professors and professionals including environmental town and conservation planners As Night Falls Avner Wishnitzer, 2021-07 A fascinating and vivid picture of the perils and promises of nocturnal life in cities in the early modern Middle East Dark Skies Nick Dunn, Tim Edensor, 2023-11-27 Dark Skies addresses a significant gap in knowledge in relation to perspectives from the arts humanities and social sciences In providing a new multi and interdisciplinary field of inquiry this book brings together engagements with dark skies from a variety of disciplinary backgrounds empirical studies and theoretical orientations Throughout history the relationship with dark skies has generated a sense of wonder and awe as well as providing the basis for important cultural meanings and spiritual beliefs However the connection to darks skies is now under threat due to the widespread growth of light pollution and the harmful impacts that this has upon humans non humans and the planet we share This book therefore examines the rich potential of dark skies and their relationships with place communities and practices to provide new insights and understandings on their importance for our world in an era of climate emergency and environmental degradation This book is intended for a wide audience It will be of interest to scholars students and professionals in geography design astronomy anthropology ecology history and public policy as well as anyone who has an interest in how we can protect the night sky for the benefit of us all and the future generations to follow The Open Access version of this book available at www taylorfrancis com has been made available under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4 0 Polarized Light and Polarization Vision in Animal Sciences Gábor Horváth, 2014-10-30 This book covers advances license made since the 2004 Springer volume Polarized Light in Animal Vision edited by Horvath and Varju but also provides reviews and synopses of some areas Part I examines polarization sensitivity across many animal taxa including vertebrates and invertebrates and details both terrestrial and aquatic life Part II is devoted to the description of polarized light in nature and explores how the physics of light must be taken into account when understanding how polarized light is detected by the visual system This includes underwater polarization due to scattering polarization patterns reflected from freshwater bodies polarization characteristics of forest canopies normal and anomalous polarization patterns of the skies skylight polarization transmitted through Snell's window and both linearly and circularly polarized signals produced by terrestrial and aquatic animals This Part also examines polarized light pollution induced by anthropogenic factors such as reflection off asphalt

surfaces glass panes car bodies and other man made structures that are now known to form ecological traps for polarotactic insects Part III surveys some of the practical applications of polarization vision including polarization based traps for biting insects ground based polarimetric cloud detectors and an historical examination of the navigational abilities of Viking seafarers using the sky polarization compass The deterrent qualities of ungulate pelage to polarization sensitive biting insects is also examined in this section Light Pollution as a New Risk Factor for Human Breast and Prostate Cancers Abraham Haim, Boris A. Portnov, 2013-06-03 Humans are diurnal organisms whose biological clock and temporal organization depend on natural light dark cycles Changes in the photoperiod are a signal for seasonal acclimatization of physiological and immune systems as well as behavioral patterns The invention of electrical light bulbs created more opportunities for work and leisure However exposure to artificial light at night LAN affects our biological clock and suppresses pineal melatonin MLT production Among its other properties MLT is an antioncogenic agent and therefore its suppression increases the risks of developing breast and prostate cancers BC PC To the best of our knowledge this book is the first to address the linkage between light pollution and BC PC in humans It explains several state of the art theories linking light pollution with BC PC It also illustrates research hypotheses about health effects of light pollution using the results of animal models and population based studies Transitions Peter W Newton, 2008-06-27 Formidable challenges confront Australia and its human settlements the mega metro regions major and provincial cities coastal rural and remote towns The key drivers of change and major urban vulnerabilities have been identified and principal among them are resource constraints such as oil water food skilled labour and materials and carbon constraints linked to climate change and a need to transition to renewable energy both of which will strongly shape urban development this century Transitions identifies 21st century challenges to the resilience of Australia s cities and regions that flow from a range of global and local influences and offers a portfolio of solutions to these critical problems and vulnerabilities The solutions will require fundamental transitions in many instances to our urban infrastructures to our institutions and how they plan for the future and perhaps most of all to ourselves in terms of our lifestyles and consumption patterns With contributions from 92 researchers all leaders in their respective fields this book offers the expertise to chart pathways for a sustainability transition **Avian Urban Ecology** Diego Gil, Henrik Brumm, 2014 This edited volume adopts an evolutionary framework to explore how pre existing differences in life history behaviour and physiology of birds may determine the course of their adaptation to urban habitats

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