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# Global Pollution Our World In Crisis

## Band 6

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Outdoor Air Pollution

Air Pollution

WHO Guidelines for Indoor Air Quality

Global Environment Outlook - GEO-6: Healthy Planet, Healthy People

WHO Guidelines for Indoor Air Quality

The Invisible Killer

Industrial Development and Environmental Degradation

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How to Avoid a Climate Disaster  
Preventing Disease Through Healthy Environments  
Global Trends 2040  
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Epic Measures

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Pollution Our  
World In Crisis  
Band 6*

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## **KANE LEWIS**

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### Outdoor Air Pollution

Island Press

#1 NEW YORK TIMES

BESTSELLER • “The Uninhabitable Earth hits you like a comet, with an overflow of insanely lyrical prose about our pending

Armageddon.”—Andrew Solomon, author of The Noonday Demon NAMED ONE OF THE BEST BOOKS OF THE YEAR BY The New Yorker • The New York Times Book Review • Time • NPR • The Economist • The Paris Review • Toronto Star • GQ • The Times Literary Supplement • The New York Public Library • Kirkus Reviews It is worse,

much worse, than you think. If your anxiety about global warming is dominated by fears of sea-level rise, you are barely scratching the surface of what terrors are possible—food shortages, refugee emergencies, climate wars and economic devastation. An “epoch-defining book” (The Guardian) and “this

generation's Silent Spring" (The Washington Post), *The Uninhabitable Earth* is both a travelogue of the near future and a meditation on how that future will look to those living through it—the ways that warming promises to transform global politics, the meaning of technology and nature in the modern world, the sustainability of capitalism and the trajectory of human progress. *The Uninhabitable Earth* is also an impassioned call to action. For just as the

world was brought to the brink of catastrophe within the span of a lifetime, the responsibility to avoid it now belongs to a single generation—today's. **LONGLISTED FOR THE PEN/E.O. WILSON LITERARY SCIENCE WRITING AWARD** "The *Uninhabitable Earth* is the most terrifying book I have ever read. Its subject is climate change, and its method is scientific, but its mode is Old Testament. The book is a meticulously documented, white-

knuckled tour through the cascading catastrophes that will soon engulf our warming planet."—Farhad Manjoo, *The New York Times* "Riveting. . . . Some readers will find Mr. Wallace-Wells's outline of possible futures alarmist. He is indeed alarmed. You should be, too."—*The Economist* "Potent and evocative. . . . Wallace-Wells has resolved to offer something other than the standard narrative of climate change. . . . He avoids the 'eerily banal language of climatology' in favor of lush, rolling

prose.”—Jennifer Szalai, The New York Times “The book has potential to be this generation’s Silent Spring.”—The Washington Post “The Uninhabitable Earth, which has become a best seller, taps into the underlying emotion of the day: fear. . . . I encourage people to read this book.”—Alan Weisman, The New York Review of Books  
*Air Pollution* Harper Collins  
"The main message emerging from this new comprehensive global assessment is that

premature death and disease can be prevented through healthier environments--and to a significant degree. Analysing the latest data on the environment-disease nexus and the devastating impact of environmental hazards and risks on global health, backed up by expert opinion, this report covers more than 130 diseases and injuries. The analysis shows that 23% of global deaths (and 26% of deaths among children under five) are due to modifiable environmental

factors--and therefore can be prevented. Stroke, ischaemic heart disease, diarrhoea and cancers head the list. People in low-income countries bear the greatest disease burden, with the exception of noncommunicable diseases. The report's unequivocal evidence should add impetus to coordinating global efforts to promote healthy environments--often through well-established, cost-effective interventions. This analysis will inform those

who want to better understand the transformational spirit of the Sustainable Development Goals agreed by Heads of State in September 2015. The results of the analysis underscore the pressing importance of stronger intersectoral action to create healthier environments that will contribute to sustainably improving the lives of millions around the world."--Page 4 of cover. WHO Guidelines for Indoor Air Quality Springer Science & Business Media

There is virtually nowhere on earth that remains untouched by plastics and the situation presents a serious threat to our natural world. Despite the magnitude of the problem, the interventions most often put in place are consumer-led and market-based and only nominally capable of addressing the issue. As the problem worsens and neoliberal ideologies limit the world's responses to this crisis, there is a growing need for legislative frameworks that attend to the

complex social and ecological issues associated with plastics. The contributors to this volume bring expertise from across academic disciplines to illustrate how plastics are produced, consumed, and discarded and to find holistic and integrated approaches that demonstrate an understanding of the wide-ranging problem. From the plasticization of earth's oceans to the endocrine disrupting chemicals that have the potential to seriously

harm life as we know it, these essays beg the question that we all must answer: what is our plastic legacy? With contributions by: Imogen E. Napper, Sabine Pahl, Richard C. Thompson, Sasha Adkins, Stephanie B. Borrelle, Jennifer Provencher, Tina Ngata, Sven Bergmann, Christina Gerhardt, Elyse Stanes, Tridibesh Dey, Mike Michael, Laura McLauchlan, Johanne Tarpgaard, Deirdre McKay, Padmapani Perez, Lei Xiaoyu, and John Holland.

*Global Environment Outlook - GEO-6: Healthy Planet, Healthy People*  
World Health Organization  
Air pollution is recognized as one of the leading contributors to the global environmental burden of disease, even in countries with relatively low concentrations of air pollution. *Air Pollution: Health and Environmental Impacts* examines the effect of this complex problem on human health and the environment in different settings around the world. | [WHO Guidelines for Indoor](#)

*Air Quality New Riders*  
Plastics have transformed every aspect of our lives. Yet the very properties that make them attractive—they are cheap to make, light, and durable—spell disaster when trash makes its way into the environment. *Plastic Soup: An Atlas of Ocean Pollution* is a beautifully-illustrated survey of the plastics clogging our seas, their impacts on wildlife and people around the world, and inspirational initiatives designed to tackle the problem. In

Plastic Soup, Michiel Roscam Abbing of the Plastic Soup Foundation reveals the scope of the issue: plastic trash now lurks on every corner of the planet. With striking photography and graphics, Plastic Soup brings this challenge to brilliant life for readers. Yet it also sends a message of hope; although the scale of the problem is massive, so is the dedication of activists working to check it. Plastic Soup highlights a diverse array of projects to curb plastic waste and

raise awareness, from plastic-free grocery stores to innovative laws and art installations. According to some estimates, if we continue on our current path, the oceans will contain more plastic than fish by the year 2050. Created to inform and inspire readers, Plastic Soup is a critical tool in the fight to reverse this trend.

### **The Invisible Killer**

Universe Pub  
An estimated 8 million metric tons (MMT) of plastic waste enters the world's ocean each year -

the equivalent of dumping a garbage truck of plastic waste into the ocean every minute. Plastic waste is now found in almost every marine habitat, from the ocean surface to deep sea sediments to the ocean's vast mid-water region, as well as the Great Lakes. This report responds to a request in the bipartisan Save Our Seas 2.0 Act for a scientific synthesis of the role of the United States both in contributing to and responding to global ocean plastic waste. The



United States is a major producer of plastics and in 2016, generated more plastic waste by weight and per capita than any other nation. Although the U.S. solid waste management system is advanced, it is not sufficient to deter leakage into the environment. Reckoning with the U.S. Role in Global Ocean Plastic Waste calls for a national strategy by the end of 2022 to reduce the nation's contribution to global ocean plastic waste at every step - from production to its entry

into the environment - including by substantially reducing U.S. solid waste generation. This report also recommends a nationally-coordinated and expanded monitoring system to track plastic pollution in order to understand the scales and sources of U.S. plastic waste, set reduction and management priorities, and measure progress. *Industrial Development and Environmental Degradation* Cambridge University Press  
The trajectories of pollution in global

capitalism, from the toxic waste of early tanneries to the poisonous effects of pesticides in the twentieth century. Through the centuries, the march of economic progress has been accompanied by the spread of industrial pollution. As our capacities for production and our aptitude for consumption have increased, so have their byproducts--chemical contamination from fertilizers and pesticides, diesel emissions, oil spills, a vast "plastic continent" found floating in the

ocean. The Contamination of the Earth offers a social and political history of industrial pollution, mapping its trajectories over three centuries, from the toxic wastes of early tanneries to the fossil fuel energy regime of the twentieth century. Plastic Legacies Elsevier Asian Atmospheric Pollution: Sources, Characteristics and Impacts provides a concise yet comprehensive treatment of all aspects of pollution and air quality monitoring, across all of Asia. It

focuses on key regions of the world and details a variety of sources, their transport mechanism, long term variability and impacts on climate at local and regional scales. It also discusses the feedback on pollutants, on different meteorological parameters like radiative forcing, fog formations, precipitation, cloud characteristics and more. Drawing upon the expertise of multiple well-known authors from different countries to underline some of these key issues, it includes

sections dedicated to treatment of pollutant sources, studying of pollutants and trace gases using satellite/station based observations and models, transport mechanisms, seasonal and inter-annual variability and impact on climate, health and biosphere in general. Asian Atmospheric Pollution: Sources, Characteristics and Impacts is a useful resource for scientists and students to understand the sources and dynamics of atmospheric pollution

as well as their transport from one continent to other continents, helping the atmospheric modelling community to model different scenarios of the pollution, gauge its short term and long term impacts across regional to global scales and better understand the ramifications of episodic events. - Covers all of Asia in detail in terms of pollution - Focuses not only on local pollution, but on long-term transport of these pollutants and their impacts on other regions as well as the globe -

Includes discussion of both particulate matter and greenhouse gases - Serves as a single resource on Asian air pollution and Impacts from the most current research across the globe including the US, Asia, Africa and Europe  
**The Limits to Growth**  
OECD Publishing  
"The ongoing COVID-19 pandemic marks the most significant, singular global disruption since World War II, with health, economic, political, and security implications that will ripple for years to

come." -Global Trends 2040 (2021) Global Trends 2040-A More Contested World (2021), released by the US National Intelligence Council, is the latest report in its series of reports starting in 1997 about megatrends and the world's future. This report, strongly influenced by the COVID-19 pandemic, paints a bleak picture of the future and describes a contested, fragmented and turbulent world. It specifically discusses the four main trends that will shape

tomorrow's world: -  
 Demographics-by 2040,  
 1.4 billion people will be  
 added mostly in Africa  
 and South Asia. -  
 Economics-increased  
 government debt and  
 concentrated economic  
 power will escalate  
 problems for the poor and  
 middleclass. - Climate-a  
 hotter world will increase  
 water, food, and health  
 insecurity. - Technology-  
 the emergence of new  
 technologies could both  
 solve and cause problems  
 for human life. Students  
 of trends, policymakers,  
 entrepreneurs,

academics, journalists and  
 anyone eager for a  
 glimpse into the next  
 decades, will find this  
 report, with colored  
 graphs, essential reading.  
*Global Plastics Outlook  
 Economic Drivers,  
 Environmental Impacts  
 and Policy Options*  
 Cambridge University  
 Press  
 An urgent examination of  
 one of the biggest global  
 crises facing us  
 today—the drastic  
 worsening of air  
 pollution—and what we  
 can do about it The air  
 pollution that we breathe

every day is largely  
 invisible—but it is killing  
 us. How did it get this  
 bad, and how can we stop  
 it? Far from a modern-day  
 problem, scientists were  
 aware of the impact of air  
 pollution as far back as  
 the seventeenth century.  
 Now, as more of us live in  
 cities, we are closer than  
 ever to pollution sources,  
 and the detrimental  
 impact on the  
 environment and our  
 health has reached crisis  
 point. The Invisible Killer  
 will introduce you to the  
 incredible individuals  
 whose groundbreaking

research paved the way to today's understanding of air pollution, often at their own detriment. Gary Fuller's global story examines devastating incidents from London's Great Smog to Norway's acid rain; Los Angeles' traffic problem to wood-burning damage in New Zealand. Fuller argues that the only way to alter the future course of our planet and improve collective global health is for city and national governments to stop ignoring evidence and take action, persuading

the public and making polluters bear the full cost of the harm that they do. The decisions that we make today will impact on our health for decades to come. *The Invisible Killer* is an essential book for our times and a cautionary tale we need to take heed of. *Climate Change Our Sunday Visitor*

- New York Times bestseller
- The 100 most substantive solutions to reverse global warming, based on meticulous research by leading scientists and

policymakers around the world “At this point in time, the Drawdown book is exactly what is needed; a credible, conservative solution-by-solution narrative that we can do it. Reading it is an effective inoculation against the widespread perception of doom that humanity cannot and will not solve the climate crisis. Reported by-effects include increased determination and a sense of grounded hope.” —Per Espen Stoknes, Author, *What We Think About When We Try Not*

To Think About Global Warming “There’s been no real way for ordinary people to get an understanding of what they can do and what impact it can have. There remains no single, comprehensive, reliable compendium of carbon-reduction solutions across sectors. At least until now. . . . The public is hungry for this kind of practical wisdom.” —David Roberts, Vox “This is the ideal environmental sciences textbook—only it is too interesting and inspiring to be called a

textbook.” —Peter Kareiva, Director of the Institute of the Environment and Sustainability, UCLA In the face of widespread fear and apathy, an international coalition of researchers, professionals, and scientists have come together to offer a set of realistic and bold solutions to climate change. One hundred techniques and practices are described here—some are well known; some you may have never heard of. They range from clean

energy to educating girls in lower-income countries to land use practices that pull carbon out of the air. The solutions exist, are economically viable, and communities throughout the world are currently enacting them with skill and determination. If deployed collectively on a global scale over the next thirty years, they represent a credible path forward, not just to slow the earth’s warming but to reach drawdown, that point in time when greenhouse gases in the atmosphere peak and

begin to decline. These measures promise cascading benefits to human health, security, prosperity, and well-being—giving us every reason to see this planetary crisis as an opportunity to create a just and livable world.

### **The Future We Choose**

Edward Elgar Publishing  
Global environmental change often seems to be the most carefully examined issue of our time. Yet understanding the human side—human causes of and responses to environmental

change—has not yet received sustained attention. *Global Environmental Change* offers a strategy for combining the efforts of natural and social scientists to better understand how our actions influence global change and how global change influences us. The volume is accessible to the nonscientist and provides a wide range of examples and case studies. It explores how the attitudes and actions of individuals, governments, and

organizations intertwine to leave their mark on the health of the planet. The book focuses on establishing a framework for this new field of study, identifying problems that must be overcome if we are to deepen our understanding of the human dimensions of global change, presenting conclusions and recommendations. *Laudato Si* National Academies Press  
*Climate Change: Evidence and Causes* is a jointly produced publication of The US National Academy

of Sciences and The Royal Society. Written by a UK-US team of leading climate scientists and reviewed by climate scientists and others, the publication is intended as a brief, readable reference document for decision makers, policy makers, educators, and other individuals seeking authoritative information on the some of the questions that continue to be asked. Climate Change makes clear what is well-established and where understanding is still developing. It echoes and

builds upon the long history of climate-related work from both national academies, as well as on the newest climate-change assessment from the United Nations' Intergovernmental Panel on Climate Change. It touches on current areas of active debate and ongoing research, such as the link between ocean heat content and the rate of warming.

Asian Atmospheric Pollution National Academies Press

The main objective of these updated global

guidelines is to offer health-based air quality guideline levels, expressed as long-term or short-term concentrations for six key air pollutants: PM2.5, PM10, ozone, nitrogen dioxide, sulfur dioxide and carbon monoxide. In addition, the guidelines provide interim targets to guide reduction efforts of these pollutants, as well as good practice statements for the management of certain types of PM (i.e., black carbon/elemental carbon, ultrafine particles, particles originating from



sand and duststorms). These guidelines are not legally binding standards; however, they provide WHO Member States with an evidence-informed tool, which they can use to inform legislation and policy. Ultimately, the goal of these guidelines is to help reduce levels of air pollutants in order to decrease the enormous health burden resulting from the exposure to air pollution worldwide. [The Truthful Art](#) MIT Press This open access book not only describes the challenges of climate

disruption, but also presents solutions. The challenges described include air pollution, climate change, extreme weather, and related health impacts that range from heat stress, vector-borne diseases, food and water insecurity and chronic diseases to malnutrition and mental well-being. The influence of humans on climate change has been established through extensive published evidence and reports. However, the connections between climate change,

the health of the planet and the impact on human health have not received the same level of attention. Therefore, the global focus on the public health impacts of climate change is a relatively recent area of interest. This focus is timely since scientists have concluded that changes in climate have led to new weather extremes such as floods, storms, heat waves, droughts and fires, in turn leading to more than 600,000 deaths and the displacement of nearly 4 billion people in the last

20 years. Previous work on the health impacts of climate change was limited mostly to epidemiologic approaches and outcomes and focused less on multidisciplinary, multi-faceted collaborations between physical scientists, public health researchers and policy makers. Further, there was little attention paid to faith-based and ethical approaches to the problem. The solutions and actions we explore in this book engage diverse sectors of civil society,

faith leadership, and political leadership, all oriented by ethics, advocacy, and policy with a special focus on poor and vulnerable populations. The book highlights areas we think will resonate broadly with the public, faith leaders, researchers and students across disciplines including the humanities, and policy makers. *Plastic Soup* Lulu.com  
A cautionary but optimistic book about the world's changing climate and the fate of humanity, from two of the architects

of the 2015 Paris Agreement. • "One of the most inspiring books I've ever read." —Yuval Harari  
Christiana Figueres and Tom Rivett-Carnac outline two possible scenarios for our planet. In one, they describe what life on Earth will be like by 2050 if we fail to meet the Paris Agreement's climate targets. In the other, they lay out what it will be like to live in a regenerative world that has net-zero emissions. They argue for confronting the climate crisis head-on, with determination and

optimism. The Future We Choose presents our options and tells us what governments, corporations, and each of us can, and must, do to fend off disaster.

*Let's Investigate Plastic Pollution* Anthem Press

"This publication represents the views and expert opinions of an IARC Working Group on the Evaluation of Carcinogenic Risk to Humans, which met in Lyon, 8-15 October 2013." *WHO global air quality guidelines* Springer Nature

Industrialization to achieve economic development has resulted in global environmental degradation. This book identifies/quantifies environmental consequences of industrial growth, and provides policy advice, including the use of clean technologies, with reference to the developing world.

**World Wide Waste: How Digital Is Killing Our Planet and What We Can Do About It**  
World Health Organization  
Global Change and the

Earth System describes what is known about the Earth system and the impact of changes caused by humans. It considers the consequences of these changes with respect to the stability of the Earth system and the well-being of humankind; as well as exploring future paths towards Earth-system science in support of global sustainability. The results presented here are based on 10 years of research on global change by many of the world's most eminent scholars. This valuable

volume achieves a new level of integration and interdisciplinarity in treating global change. Global Environmental Change World Health Organization

New edition of introductory textbook, ideal for students taking a course on air pollution and global warming, whatever their background. Comprehensive

introduction to the history and science of the major air pollution and climate problems facing the world today, as well as energy and policy solutions to those problems.