

On Gaia A Critical Investigation Of The Relationship Between Life And Earth

Methods for Human History - Patrick Manning 2020-09-28

This book presents a concise yet comprehensive survey of methods used in the expanding studies of human evolution, paying particular attention to new work on social evolution. The first part of the book presents principal methods for the study of biological, cultural, and social evolution, plus migration, group behavior, institutions, politics, and environment. The second part provides a chronological and analytical account of the development of these methods from 1850 to the present, showing how multidisciplinary rose to link physical, biological, ecological, and social sciences. The work is especially relevant for readers in history and social sciences but will be of interest to readers in biological and ecological fields who are interested in exploring a wide range of evolutionary studies.

Why Environmental Policies Fail - Jan Laitos 2017-07-25

The real question examined by this book is not the extent of the failure of environmental policy, but exactly why did the policy fail?

Extracted - Ugo Bardi 2014

A history of the mining industry, starting with its humble beginning when our early ancestors started digging underground to find the stones they needed for their tools. Ugo Bardi traces the links between mineral riches and empires, wars, and civilizations, and shows how mining in its various forms came to be one of the largest global industries. He also illustrates how the gigantic mining machine is now starting to show signs of difficulties.

Catholicism and Liberal Democracy - James Martin Carr 2022-11

Catholicism and Liberal Democracy seeks to clarify if there is a place for Catholicism in the public discourse of modern liberal democracy, bringing secular liberalism, as articulated by Jürgen Habermas, into conversation with the Catholic tradition. James Martin Carr explores three aspects of the Catholic tradition relevant to this debate: the Church's response to democracy from the nineteenth century up until the eve of the Second Vatican Council; the Council's engagement with modernity, in particular through *Gaudium et spes* and *Dignitatis humanae*; and Joseph Ratzinger's theology of politics as a particularly incisive (and influential) articulation of the Catholic tradition in this area. Jürgen Habermas's theorization of the place of religion in modern democracy, both in his earlier secularist phase and after his 'post-secular' turn, is evaluated. The adequacy of Habermas's recent attempts to accommodate religious citizens are critically examined and it is argued that developments in his later thought logically require a more thoroughgoing revision of his earlier theory. These developments, it is argued, create tantalizing openings for fruitful dialogue between Habermas and the Catholic tradition. Using analytical tools drawn from communications theory, the debates on same-sex marriage at Westminster and in the Irish referendum campaign are analyzed, assessing whether Catholic contributions to these debates comply with Habermasian rules of civic discourse. In light of this analysis, the prospects of, and impediments to, Catholic participation in public discourse are appraised. Carr concludes by proposing a Ratzingerian critique of contemporary attempts to redefine marriage within a broader, more fundamental critique of the modern democratic state as currently configured. A political system founded upon secularist monism cannot but regard Christian Gelasianism, and its Catholic variant in particular, as an existential threat. Thus, Catholics, however Habermasian their political behavior, can never be more than uneasy bedfellows with modern liberal democracy.

An Analysis of James E. Lovelock's Gaia - Mohammad Shamsudduha 2017-07-05

Gaia: A New Look At Life on Earth may continue to divide opinion, but nobody can deny that the book offers a powerful insight into the creative thinking of its author, James E. Lovelock. Published in 1979, Gaia offered a radically new hypothesis: the Earth, Lovelock argued, is a living entity. Together, the planet and all its separate living organisms form a single self-regulating body, sustaining life and helping it evolve

through time. Lovelock sees humans as no more special than other elements of the planet, railing against the once widely-held belief that the good of mankind is the only thing that matters. Despite being seen as radical, and even idiotic on its publication, a version of Lovelock's viewpoint has found resonance in contemporary debates about the environment and climate, and has now broadly come to be accepted by modern thinkers. As man's effects on the climate become increasingly extreme, more and more elements of the Earth's self-regulation seem to be unveiled – forcing scientists to ask how far the planet might be able to go in order self-regulate effectively. Indeed, despite its far-fetched elements, Lovelock's Gaia thesis seems to ring more convincingly today than ever before; that it does is largely a result of the critical thinking skills that allowed Lovelock to produce novel explanations for existing evidence and, above all, to connect existing fragments of evidence together in new ways.

Writing Gaia: The Scientific Correspondence of James Lovelock and Lynn Margulis - Bruce Clarke 2022-08-18

A full and annotated collection of the correspondence between two extraordinary scientific individuals, James Lovelock and Lynn Margulis.

The Fundamental Processes in Ecology - David Wilkinson 2023-09-05

This thought-provoking book introduces a way to study ecosystems that is resonant with current thinking in the fields of earth system science, geobiology, and planetology. Instead of organizing the subject around a hierarchical series of entities (e.g. genes, individuals, populations, species, communities, and the biosphere), the book provides an alternative process-based approach and proposes a truly planetary view of ecological science. It demonstrates how the idea of fundamental ecological processes can be developed at the systems level, specifically their involvement in control and feedback mechanisms. This enables the reader to reconsider fundamental ecological processes such as energy flow, guilds, trade-offs, carbon cycling, and photosynthesis, and to put them in a global (and even planetary) context. In so doing, the book places a much stronger emphasis on microorganisms. Since publication of the first edition in 2006, ever growing societal concern about environmental sustainability has ensured that the earth system science/Gaian approach has steadily gained traction. Its integration with ecology is now more important than ever if ecological science is to effectively contribute to the massive problems and future challenges associated with global environmental change. The Fundamental Processes in Ecology is an accessible text for senior undergraduates, graduate student seminar courses, and researchers in the fields of ecology, environmental sustainability, earth system science, evolutionary biology, palaeontology, history of life, astrobiology, planetology, climatology, geology, and physical geography.

God and Gaia - Michael S Northcott 2022-12-22

God and Gaia explores the overlap between traditional religious cosmologies and the scientific Gaia theory of James Lovelock. It argues that a Gaian approach to the ecological crisis involves rebalancing human and more-than-human influences on Earth by reviving the ecological agency of local and indigenous human communities, and of nonhuman beings. Present-day human ecological influences on Earth have been growing at pace since the Scientific and Industrial Revolutions, when modern humans adopted a machine cosmology in which humans are the sole intelligent agency. The resultant imbalance between human and Earthly agencies is degrading the species diversity of ecosystems, causing local climate changes, and threatens to destabilise the Earth as a System. Across eight chapters this ambitious text engages with traditional cosmologies from the Indian Vedas and classical Greece to Medieval Christianity, with case material from Southeast Asia, Southern Africa and Great Britain. It discusses concepts such as deep time and ancestral time, the ethics of genetic engineering of foods and viruses, and holistic ecological management. Northcott argues that an ontological turn that honours the differential agency of indigenous humans and other kind, and that draws on sacred traditions, will make it possible to repair the

destabilising impacts of contemporary human activities on the Earth System and its constituent ecosystems. This book will be of considerable interest to students and scholars of the environmental humanities, history, and cultural and religious studies.

[The Crisis of the 14th Century](#) - Martin Bauch 2019-12-16

Pre-modern critical interactions of nature and society can best be studied during the so-called "Crisis of the 14th Century". While historiography has long ignored the environmental framing of historical processes and scientists have over-emphasized nature's impact on the course of human history, this volume tries to describe the at times complex modes of the late-medieval relationship of man and nature. The idea of 'teleconnection', borrowed from the geosciences, describes the influence of atmospheric circulation patterns often over long distances. It seems that there were 'teleconnections' in society, too. So this volume aims to examine man-environment interactions mainly in the 14th century from all over Europe and beyond. It integrates contributions from different disciplines on impact, perception and reaction of environmental change and natural extreme events on late Medieval societies. For humanists from all historical disciplines it offers an approach how to integrate written and even scientific evidence on environmental change in established and new fields of historical research. For scientists it demonstrates the contributions scholars from the humanities can provide for discussion on past environmental changes.

The Seneca Effect - Ugo Bardi 2017-08-22

The essence of this book can be found in a line written by the ancient Roman Stoic Philosopher Lucius Annaeus Seneca: "Fortune is of sluggish growth, but ruin is rapid". This sentence summarizes the features of the phenomenon that we call "collapse," which is typically sudden and often unexpected, like the proverbial "house of cards." But why are such collapses so common, and what generates them? Several books have been published on the subject, including the well known "Collapse" by Jared Diamond (2005), "The collapse of complex societies" by Joseph Tainter (1998) and "The Tipping Point," by Malcom Gladwell (2000). Why The Seneca Effect? This book is an ambitious attempt to pull these various strands together by describing collapse from a multi-disciplinary viewpoint. The reader will discover how collapse is a collective phenomenon that occurs in what we call today "complex systems," with a special emphasis on system dynamics and the concept of "feedback." From this foundation, Bardi applies the theory to real-world systems, from the mechanics of fracture and the collapse of large structures to financial collapses, famines and population collapses, the fall of entire civilizations, and the most dreadful collapse we can imagine: that of the planetary ecosystem generated by overexploitation and climate change. The final objective of the book is to describe a conclusion that the ancient stoic philosophers had already discovered long ago, but that modern system science has rediscovered today. If you want to avoid collapse you need to embrace change, not fight it. Neither a book about doom and gloom nor a cornucopianist's dream, The Seneca Effect goes to the heart of the challenges that we are facing today, helping us to manage our future rather than be managed by it.

[Agriculture & Philosophy: Agricultural Science in Philosophy](#) - Lindsay Falvey 2020-01-01

Agriculture and philosophy have been parts of a whole across history and remain so. Philosophy informs wellbeing and contentment amidst the vagaries of existence, the primary concern of which has always been security of food. Science, once known as natural philosophy, is a major means of philosophical advance today. Agricultural science is presented as comprising all of these components. The philosophical quest to be at ease in nature extends from pre-historical times into our unknown future, and employs diverse vehicles to convey insights across generations via myths, legends religion, academic study and ritual practices. Expressing esoteric concepts has employed agricultural metaphor across the historical era as it has been our most common interaction with nature. Continuing as our most widespread human interaction within nature, agriculture's role in creating civilization, and later its writing, eventually led to an urban separation from nature including food production. Unifying the philosophy, agriculture and agricultural science across cultures and traditions from pre-agricultural times through the European Enlightenment to today, this work builds on neglected ancient insights. Perhaps the most profound of these insights is that our thoughts and actions may be seen as an integral part of nature. Rather than being independent agents with free will, our fears and guilt may be seen as active forces in the dynamics of nature itself, which includes our procurement of food. This conception offers a wider interaction than can be comprehended

from current popular approaches.

The Branches of Ecology - Frank N. Egerton 2023-01-31

The ecological sciences are a diverse array of major scientific disciplines. They grew from minor sciences, with little status in 1900, and now occupy crucial areas of research bearing on the future of our planet. This book describes a century of growth and development. A dramatic century-long rise in the status of ecological knowledge was accompanied by the rise of professional ecological organizations, the establishment of university faculties, and the creation of government agencies advising on conservation, natural resources, and the prevention of pollution. Like all sciences, ecology continues to yield new findings and surprising revelations. New technologies now address existential challenges facing our world. This book, documenting the rise of ecology, is an inspiring history portending an important role in the twenty-first century. Key Features: The author is the acknowledged authority on the history of ecology. The content is familiar to members of the Ecological Society of America but has not previously been assembled into a single narrative. Appropriate for a course in the history of ecology. Provides a broad perspective on ecology. Related Titles: Egerton, F. N. A Centennial History of the Ecological Society of America (ISBN 978-0-3673-7763-2). Rieppel, O. Phylogenetic Systematics: Haeckel to Hennig (ISBN 978-0-3678-7645-6) Dronamraju, K. A Century of Geneticists: Mutation to Medicine (ISBN 978-1-4987-4866-7)

Earthling - Dean Wallraff 2023-03-01

Climate Change is the most important ethical problem humanity is facing right now. We are in the process of harming the Earth in ways that will diminish the quality of life for many future generations. Our old human-centrism, our national tribalism, and our short-term perspectives must give way to new ways of thinking that give moral standing to other animals, and that take global and long-term perspectives. In the year 3000, humankind will look back to the present century, which dramatically altered the planet's climate and ecosystems. Will they curse us as destroyers of the earthly paradise humankind enjoyed until now? To avoid this, we need to change our approach to ethics, economics, sustainability, politics, and law. Earthling: A New Ethics for the Anthropocene addresses sustainability, economics, politics, and law as important factors in climate ethics. It aims to both help with understanding these issues, and present potential solutions for the problem.

Blue Planet, Blue God - Meric Srokosz 2017-11-30

The ocean dominates the surface of the earth and is in the pages of the Bible too. The Bible offers a view of the sea and the life it supports which affirms its intrinsic value to God as a good, and indeed essential, part of creation. At the same time, it also speaks perceptively of the sea's vulnerability to damage and change. The Bible's focus on the sea raises questions about economics and the interconnectedness of communities, whilst further references to the sea raise questions about our human-centredness and spirituality, and about our fear of chaos and disaster. In a unique collaborative project, the oceanographer Meric Srokosz and the biblical scholar Rebecca Watson not only offer environmental insights on the sea, but also connect the ocean with other key issues of broader concern—spirituality, economics, chaos, and our place in the world. Each chapter concludes with ideas for discussion and reflection, and for suggested actions in the light of the issues raised. The book will present a fresh new lens through which to view the Bible and as such inform biblical scholars, students, and preachers alike. Table of Contents: 1. The Sea and Salvation 2. The Sea and Spirituality 3. The God of the Sea and All that Fills It 4. Human Creatures and the Life of the Sea 5. The Sacred Sea 6. Coping with Chaos and Uncertainty: The 'Chaotic' Sea 7. The Vast, Vulnerable Sea: A Spacious Sea? 8. Economics, Hubris and Human Community: Travel and Trade on the Sea 9. Blue Planet, Blue God

[A History of Humanity](#) - Patrick Manning 2020-02-27

Analyzes both the social and biological evolution of humans, from the spoken language to today's institutions.

[Life in the Cosmos](#) - Manasvi Lingam 2021-06-29

A rigorous and scientific analysis of the myriad possibilities of life beyond our planet. Are we alone in the universe? This tantalizing question has captivated humanity over millennia, but seldom has it been approached rigorously. Today the search for signatures of extraterrestrial life and intelligence has become a rapidly advancing scientific endeavor. Missions to Mars, Europa, and Titan seek evidence of life.

Laboratory experiments have made great strides in creating synthetic life, deepening our understanding of conditions that give rise to living entities. And on the horizon are sophisticated telescopes to detect and characterize exoplanets most likely to harbor life. *Life in the Cosmos* offers a thorough overview of the burgeoning field of astrobiology, including the salient methods and paradigms involved in the search for extraterrestrial life and intelligence. Manasvi Lingam and Abraham Loeb tackle three areas of interest in hunting for life "out there": first, the pathways by which life originates and evolves; second, planetary and stellar factors that affect the habitability of worlds, with an eye on the biomarkers that may reveal the presence of microbial life; and finally, the detection of technological signals that could be indicative of intelligence. Drawing on empirical data from observations and experiments, as well as the latest theoretical and computational developments, the authors make a compelling scientific case for the search for life beyond what we can currently see. Meticulous and comprehensive, *Life in the Cosmos* is a master class from top researchers in astrobiology, suggesting that the answer to our age-old question is closer than ever before.

On Gaia - Toby Tyrrell 2013-07-21

A critical examination of James Lovelock's controversial Gaia hypothesis One of the enduring questions about our planet is how it has remained continuously habitable over vast stretches of geological time despite the fact that its atmosphere and climate are potentially unstable. James Lovelock's Gaia hypothesis posits that life itself has intervened in the regulation of the planetary environment in order to keep it stable and favorable for life. First proposed in the 1970s, Lovelock's hypothesis remains highly controversial and continues to provoke fierce debate. *On Gaia* undertakes the first in-depth investigation of the arguments put forward by Lovelock and others—and concludes that the evidence doesn't stack up in support of Gaia. Toby Tyrrell draws on the latest findings in fields as diverse as climate science, oceanography, atmospheric science, geology, ecology, and evolutionary biology. He takes readers to obscure corners of the natural world, from southern Africa where ancient rocks reveal that icebergs were once present near the equator, to mimics of cleaner fish on Indonesian reefs, to blind fish deep in Mexican caves. Tyrrell weaves these and many other intriguing observations into a comprehensive analysis of the major assertions and lines of argument underpinning Gaia, and finds that it is not a credible picture of how life and Earth interact. *On Gaia* reflects on the scientific evidence indicating that life and environment mutually affect each other, and proposes that feedbacks on Earth do not provide robust protection against the environment becoming uninhabitable—or against poor stewardship by us.

Born of Ice and Fire - Graham Shields 2023-10-17

An exploration of how the Cryogenian Period, when our planet was covered in ice for millions of years, created today's remarkable biodiversity More than half a billion years ago, our world was completely covered by glaciers, a "Snowball Earth" that persisted for millions of years. Incredibly, this unimaginable cold led to the remarkable diversification of life on earth known as the Cambrian explosion. With a geologist's eye and a knack for storytelling, Graham Shields explores when and how such inhospitable

conditions enabled animals to evolve, radiate, and diversify into our earliest ancestors. This journey navigates the wild swings between hot and cold climates, oxygenation and asphyxiation, biological radiations and extinctions, asking how such instability relates to grander forces that brought our planet to its modern state. Shields guides readers through evidence found in the Australian outback, Mongolia, Scotland, and other locales, revealing how geologists can trace glaciation, the atmosphere, oceans, mountain building, and more through the earth's rocks, providing a comprehensive theory of how life evolved and diversified.

Can Microbial Communities Regenerate? - S. Andrew Inkpen 2022-07-20

By investigating a simple question, a philosopher of science and a molecular biologist offer an accessible understanding of microbial communities and a motivating theory for future research in community ecology. Microorganisms, such as bacteria, are important determinants of health at the individual, ecosystem, and global levels. And yet many aspects of modern life, from the overuse of antibiotics to chemical spills and climate change, can have devastating, lasting impacts on the communities formed by microorganisms. Drawing on the latest scientific research and real-life examples such as attempts to reengineer these communities through microbial transplantation, the construction of synthetic communities of microorganisms, and the use of probiotics, this book explores how and why communities of microorganisms respond to disturbance, and what might lead to failure. It also unpacks related and interwoven philosophical questions: What is an organism? Can a community evolve by natural selection? How can we make sense of function and purpose in the natural world? How should we think about regeneration as a phenomenon that occurs at multiple biological scales? Provocative and nuanced, this primer offers an accessible conceptual and theoretical understanding of regeneration and evolution at the community level that will be essential across disciplines including philosophy of biology, conservation biology, microbiomics, medicine, evolutionary biology, and ecology.

Dreamers, Visionaries, and Revolutionaries in the Life Sciences - Oren Harman 2018-07-20

What are the conditions that foster true novelty and allow visionaries to set their eyes on unknown horizons? What have been the challenges that have spawned new innovations, and how have they shaped modern biology? In *Dreamers, Visionaries, and Revolutionaries in the Life Sciences*, editors Oren Harman and Michael R. Dietrich explore these questions through the lives of eighteen exemplary biologists who had grand and often radical ideas that went far beyond the run-of-the-mill science of their peers. From the Frenchman Jean-Baptiste Lamarck, who coined the word "biology" in the early nineteenth century, to the American James Lovelock, for whom the Earth is a living, breathing organism, these dreamers innovated in ways that forced their contemporaries to reexamine comfortable truths. With this collection readers will follow Jane Goodall into the hidden world of apes in African jungles and Francis Crick as he attacks the problem of consciousness. Join Mary Lasker on her campaign to conquer cancer and follow geneticist George Church as he dreams of bringing back woolly mammoths and Neanderthals. In these lives and the many others featured in these pages, we discover visions that were sometimes fantastical, quixotic, and even threatening and destabilizing, but always a challenge to the status quo.

On Gaia A Critical Investigation Of The Relationship Between Life And Earth:

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