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Pterosaurs Princeton University Press
 Pterosaurs are the earliest vertebrates known to have evolved powered flight. This core reference work summarises state-of-the-art research on pterosaur taxonomy, phylogeny and evolutionary history, as well as recent advances in our understanding of pterosaur diversity and the distribution of these creatures. Compiled by a team of more than 20 experts from 8 different countries, this work provides the most extensive account yet written of pterosaur systematics. Highlights include detailed reviews of the geology and palaeontology of principal pterosaur localities; comprehensive accounts of pterosaur biogeography and preservation; detailed systematic reviews of the more than 130 species of pterosaur described so far; and the first detailed account of pterosaur evolution to include important new finds such as Darwinopterus. Illustrated with unique line drawings and photographs, *The Pterosauria* is a one-stop resource for academics, students of palaeontology, geology and biology, and amateur enthusiasts interested in these flying reptiles.

Dinosaurs Princeton University Press
 This one-of-a-kind book covers the discovery history, paleobiogeography, anatomy, and behaviors of more than 130 species of pterosaur, and also discusses their demise at the end of the Mesozoic.

The Natural History Museum Book of Dinosaurs Princeton University Press
 Extinct worlds live again in palaeoart: artworks of fossil animals, plants and environments carefully reconstructed from palaeontological and geological data. Such artworks are widespread in popular culture, appearing in documentaries, museums, books and magazines, and inspiring depictions of dinosaurs and other prehistoric animals in cinema. This book outlines how fossil animals and environments can be reconstructed from their fossils, explaining how palaeoartists overcome gaps in fossil data and predict 'soft-tissue' anatomies no longer present around fossil bones. It goes on to show how science and art can meet to produce compelling, interesting takes on ancient worlds, and it explores the goals and limitations of this popular but rarely discussed art genre. Multiple chapters with dozens of illustrations of fossil animal reconstruction, with specific guidance on fossil amphibians, mammals and their fossil relatives, and a myriad of fossil reptiles (including dinosaurs). Explores how best to present diverse fossil animal forms in art - how best to convey size, proportion and motion in landscapes without familiar reference points. Explains essential techniques

for the aspiring palaeoartists, from understanding geological time and evolutionary relationships to rebuilding skeletons and muscles. Suggests where and how to gather reliable sources of data for palaeoartworks. Includes a history of palaeoart, outlining the full evolution of the medium from ancient times to the modern day. Examines stylistic variation in palaeoart. Showcases diverse artworks from world-leading contemporary palaeoartists. Palaeoartistry is a popular but rarely discussed art genre. This new book outlines how fossil animals and environments can be reconstructed from their fossils. Of great interest to everyone interested in palaeoartistry, dinosaurs, natural history and fossils. Superbly illustrated with 195 colour images. Dr Mark P Witton is an author, palaeontological artist and researcher whose palaeoartworks have featured in numerous research papers, television shows, museums and art galleries.

The Theropods and Other Dinosauriformes Geological Society of London
 Accurate, synthetic, and sweeping, *The Rise of Reptiles* is the definitive work on the subject.

An Introduction for Surface Scientists and Nanoscientists Springer Science & Business Media
 "THE ULTIMATE DINOSAUR BIOGRAPHY," hails *Scientific American*: A thrilling new history of the age of dinosaurs, from one of our finest young scientists. "A masterpiece of science writing."
 —Washington Post A New York Times Bestseller • Goodreads Choice Awards Winner • A BEST BOOK OF THE YEAR: Smithsonian, Science Friday, The Times (London), Popular Mechanics, Science News "This is scientific storytelling at its most visceral, striding with the beasts through their Triassic dawn, Jurassic dominance, and abrupt demise in the Cretaceous." —Nature The dinosaurs. Sixty-six million years ago, the Earth's most fearsome creatures vanished. Today they remain one of our planet's great mysteries. Now *The Rise and Fall of the Dinosaurs* reveals their extraordinary, 200-million-year-long story as never before. In this captivating narrative (enlivened with more than seventy original illustrations and photographs), Steve Brusatte, a young American paleontologist who has emerged as one of the foremost stars of the field—naming fifteen new species and leading groundbreaking scientific studies and fieldwork—masterfully tells the complete, surprising, and new history of the dinosaurs, drawing on cutting-edge science to dramatically bring to life their lost world and illuminate their enigmatic origins, spectacular flourishing, astonishing diversity, cataclysmic extinction, and startling living legacy. Captivating and revelatory, *The Rise and Fall of the Dinosaurs* is a book for the ages. Brusatte traces the evolution of dinosaurs from their inauspicious start as small shadow dwellers—themselves the beneficiaries of a mass extinction caused by volcanic eruptions at the beginning of the Triassic

period—into the dominant array of species every wide-eyed child memorizes today, *T. rex*, Triceratops, Brontosaurus, and more. This gifted scientist and writer re-creates the dinosaurs' peak during the Jurassic and Cretaceous, when thousands of species thrived, and winged and feathered dinosaurs, the prehistoric ancestors of modern birds, emerged. The story continues to the end of the Cretaceous period, when a giant asteroid or comet struck the planet and nearly every dinosaur species (but not all) died out, in the most extraordinary extinction event in earth's history, one full of lessons for today as we confront a "sixth extinction." Brusatte also recalls compelling stories from his globe-trotting expeditions during one of the most exciting eras in dinosaur research—which he calls "a new golden age of discovery"—and offers thrilling accounts of some of the remarkable findings he and his colleagues have made, including primitive human-sized tyrannosaurs; monstrous carnivores even larger than *T. rex*; and paradigm-shifting feathered raptors from China. An electrifying scientific history that unearths the dinosaurs' epic saga, *The Rise and Fall of the Dinosaurs* will be a definitive and treasured account for decades to come. Includes 75 images, world maps of the prehistoric earth, and a dinosaur family tree.

A Companion to the PhyloCode Discovering Dinosaurs
 Pterosaurs or flying reptiles were the first vertebrates to evolve flight. These distant relatives of modern reptiles and dinosaurs lived from the Late Triassic (over 200 million years ago) to the end of the Cretaceous (about 65 million years ago) a span of some 135 million years. When they became extinct, no relatives survived them and as a result these prehistoric animals cannot readily be compared with our modern-day fauna. So what do we know of these highly successful animals? The present summary answers this and many more questions based on the most recent results of modern scientific research. After a short introduction to palaeontology as a science and its history related to pterosaurs, it explains what pterosaurs were, when and where they lived, and what they looked like. Topics such as disease, injury and reproduction are also discussed. Separated from this text are 'Mark explains' boxes. Each of these explanations puts one specific species in the spotlight and focuses on its lifestyle. They show how diverse pterosaurs were, from small insectivorous animals with a wingspan of nearly 40 centimetres to the biggest flying animals ever to take to the air, with wingspans of over 10 metres and with a way of life comparable to modern-day storks. The text is illustrated with many full colour photographs and beautiful palaeo-art prepared by experts in the field.

Vertebrate Coprolites Princeton University Press
 Phylonyms is an implementation of PhyloCode, which is a set of principles, rules, and recommendations governing phylogenetic

nomenclature. Nearly 300 clades - lineages of organisms - are defined by reference to hypotheses of phylogenetic history rather than by taxonomic ranks and types. This volume will document the Real World uses of PhyloCode and will govern and apply to the names of clades, while species names will still be governed by traditional codes. Key Features Provides clear regulations for implementing new guidelines for naming lineages of organisms incorporates expressly evolutionary and phylogenetic principles Works with existing codes of nomenclature Eliminates the reliance on rank-based classification in favor of phylogenetic relationships Related Titles: Rieppel, O. Phylogenetic Systematics: Haeckel to Hennig (ISBN 978-1-4987-5488-0) Cantino, P. D. and de Queiroz, K. International Code of Phylogenetic Nomenclature (PhyloCode) (ISBN 978-1-138-33282-9).

Twenty-first Century Visions of Prehistory Cambridge University Press

Unlike an encyclopedia, a data book or even a learned exposition, this book is designed to be read from start to finish as the developing story of a remarkable group of animals. It is an ideal introduction to dinosaurs for the older child or adult.

Pterosaurs Yale University Press

Pterosaurs, the first vertebrates to evolve powered flight, are undergoing a long-running scientific renaissance that has seen sustained, and even elevated interest, from several generations of palaeontologists. These incredible reptiles are known from every continent, flew the Mesozoic skies for at least 160 million years, diversified into more than a dozen major clades and well over 100 species, and included the largest flying animals of all time. This volume brings together leading pterosaur researchers from around the globe to discuss new and cutting-edge research into various aspects of pterosaur palaeobiology and presents diverse papers to deliver new insights on flying reptile palaeoecology, flight, ontogeny, skeletal and soft-tissue anatomy, temporal and spatial distribution and evolution, as well as revisions of their taxonomy and interrelationships.

Hadrosaurs Houghton Mifflin Harcourt

A valuable learning tool as well as a reference, this book provides students and researchers in surface science and nanoscience with the theoretical crystallographic foundations, which are necessary to understand local structure and symmetry of bulk crystals, including ideal and real single crystal surfaces. The author deals with the subject at an introductory level, providing numerous graphic examples to illustrate the mathematical formalism. The book brings together and logically connects many seemingly disparate structural issues and notations used frequently by surface scientists and nanoscientists. Numerous exercises of varying difficulty, ranging from simple questions to small research projects, are included to stimulate discussions about the different subjects. From the contents: Bulk Crystals, Three-Dimensional Lattices - Crystal Layers, Two-Dimensional Lattices, Symmetry - Ideal Single Crystal Surfaces - Real Crystal Surfaces - Adsorbate layers - Interference Lattices - Chiral Surfaces - Experimental Analysis of Real Crystal Surfaces - Nanoparticles and Crystallites - Quasicrystals - Nanotubes

The Great Dinosaur Discoveries Indiana University Press

"Inspired by the spectacular discoveries of the past two decades from the Age of Reptiles in China, Riddle of the Feathered Dragons explores how these miraculous fossils have transformed the contentious arena of bird and dinosaur evolution. Aside from being the most comprehensive discussion of these avian and associated discoveries, the author delves into the world of investigative journalism to expose the darker side of the world of fossil birds and dinosaurs. The book exposes the massive unfounded speculation that has characterized the field of vertebrate paleontology and published extensively in the world's most prestigious journals, including everything from supposed dinosaur protein to so-called feathered dinosaurs. The book questions the validity of the foundational tenets of the now "unquestionable orthodoxy" of bird and dinosaur evolution, including bird origins, feathered dinosaurs, flight origin from the ground-up and hot-blooded dinosaurs and their proteins. It exposes how speculation has gone far beyond the ability of the currently available evidence to yield answers. The author concludes that birds are best defined by a more traditional

definition of the possession of feathers and avian flight architecture, that the so-called "feathered dinosaurs" are most likely derived avians, and that flight clearly originated from the trees-down, from ancestors that antedated the dinosaurs, rather than a direct linear descent"--

Eggs, Nests, and Baby Dinosaurs Johns Hopkins University Press An illustrated record book of theropod facts and figures—from the biggest to the fastest to the smartest The theropod dinosaurs ruled the planet for millions of years, with species ranging from the mighty Tyrannosaurus rex to feathered raptors no bigger than turkeys. *Dinosaur Facts and Figures* is a stunningly illustrated book of records for these marvelous creatures—such as the biggest, the smallest, and the fastest theropods, as well as the ones with the most powerful bite. This one-of-a-kind compendium features more than 3,000 records, covers some 750 theropod species, and includes a wealth of illustrations ranging from diagrams and technical drawings to full-color reconstructions of specimens. The book is divided into sections that put numerous amazing theropod facts at your fingertips. "Comparing Species" is organized by taxonomic group and gives comparisons of the size of species, how long ago they lived, and when they were discovered. "Mesozoic Calendar" includes spreads showing the positions of the continents at different geological time periods and reconstructions of creatures from each period. "Prehistoric Puzzle" compares bones, teeth, and feathers while "Theropod Life" uses vivid, user-friendly graphics to answer questions such as which dinosaur was the smartest and which had the most powerful bite. Other sections chart theropod distribution on the contemporary world map, provide comprehensive illustrated listings of footprints, compile the physical specifications of all known theropods and Mesozoic birds, and much more. The essential illustrated record book for anyone interested in dinosaurs Features thousands of records on everything from the smartest and fastest theropods to the largest theropod eggs Includes more than 2,000 diagrams and drawings and more than 300 digital reconstructions Covers more than 750 theropod species, including Mesozoic birds and other dinosauromorphs Provides detailed listings of footprints, biometric specifications, and scholarly and popular references

Palaeoartist's Handbook Cambridge University Press

Following on from *Dinosaur Art*, this new volume showcases 10 amazing artists whose work represents the cutting edge of paleoart. Many are rising stars in the field; others have embraced digital technology and continue to assert long-standing reputations as leaders in the discipline. This volume also includes state-of-the-art modellers, allowing the reader to explore restoring prehistoric animals in three as well as two dimensions. All accompanied by insights into the cutting of paleontological researcher and the very latest discoveries, with commentaries by respected scientists at the top of their fields.

A Field Guide to Mesozoic Birds and Other Winged Dinosaurs HarperCollins

Here is the first complete portrait of the legendary flying dragons of deep time - the pterosaurs - designed for non-specialists, yet founded on the real science of these bizarre creatures. Presented lucidly and accessibly by one of the world's leading experts, David Unwin's book is built on a mountain of new fossil discoveries and the latest research. Packed with seventy color and eighty-five black and white illustrations - including eight full-page original color paintings that are scientific recreations of different pterosaur species - *The Pterosaurs From Deep Time* takes readers on an expedition back through the lost world of the Earth's deep past.

How They Lived and Evolved Indiana University Press

This book provides dinosaur lovers with an exciting look at the flying reptiles that once ruled the skies. This book examines the different types of flying reptiles from the inside out. Helpful illustrations and pronunciation guides teach young readers about these ancient creatures.

320 Million Years of Evolution Titan Books (US, CA)

The famous bone beds of the Morrison Formation, formed one hundred and fifty million years ago and running from Wyoming down through the red rock region of the American Southwest,

have yielded one of the most complete pictures of any ancient vertebrate ecosystem in the world. *Jurassic West, Second Edition* tells the story of the life of this ancient world as scientists have so far been able to reconstruct it. Aimed at the general reader, *Jurassic West, Second Edition* recounts the discovery of many important Late Jurassic dinosaurs such as *Apatosaurus*, *Allosaurus*, and *Stegosaurus*. But dinosaurs comprise barely a third of the more than 90 types of vertebrates known from the formation, which include crocodiles and turtles, frogs and salamanders, dinosaurs and mammals, clams and snails, and ginkgoes, ferns, and conifers. Featuring nearly all new illustrations, the second edition of this classic work includes new taxa named since 2007, updates to the naming and classifications of some old taxa, and expanded sections on numerous aspects of Morrison Formation paleontology and geology.

Evolution and Palaeobiology of Pterosaurs Andre Deutsch Limited 260 million years ago, life on Earth suffered wave after wave of cataclysmic extinctions, with the worst--the end-Permian extinction--wiping out nearly every species on the planet. This book delves into the mystery behind these extinctions and sheds light on the fateful role the primeval supercontinent, known as Pangea, may have played in causing these global catastrophes. Drawing on the latest discoveries as well as his own field expeditions to remote corners of the world, Paul Wignall reveals what scientists are only now beginning to understand about the most prolonged period of environmental crisis in Earth's history. He describes how a series of unprecedented extinction events swept across the planet in a span of eighty million years, rapidly killing marine and terrestrial life on a scale more devastating than the dinosaur extinctions that would come later. Wignall shows how these extinctions--some of which have only recently been discovered--all coincided with gigantic volcanic eruptions of flood basalt lavas that occurred when the world's landmasses were united into a single vast expanse. Unraveling one of the great enigmas of ancient Earth, this book also explains how the splitting apart of Pangea into the continents we know today ushered in a new age of vibrant and more resilient life on our planet.--Adapted from book jacket.

Recreating prehistoric animals in art Princeton University Press

Recounts the story of the discovery and growth of scientific knowledge of prehistoric flying reptiles, describes the various species, and discusses their way of life, the reasons for their extinction, and how they compare to other flying vertebrates **Bulletin 57** Oxford University Press, USA

On the Wing is the first book to take a comprehensive look at the evolution of flight in all four groups of powered flyers: insects, pterosaurs, birds and bats. David Alexander describes and evaluates both traditional and modern wing-origin theories in light of new fossil and genetic evidence.

Life Through the Ages II Dutton Juvenile

There is more to a bird than simply feathers. And just because birds evolved from a single flying ancestor doesn't mean they are structurally all the same. With over 385 stunning drawings depicting 200 species, *The Unfeathered Bird* is a richly illustrated book on bird anatomy that offers refreshingly original insights into what goes on beneath the feathered surface. Each exquisite drawing is made from an actual specimen and reproduced in sumptuous large format. The birds are shown in lifelike positions and engaged in behavior typical of the species: an underwater view of the skeleton of a swimming loon, the musculature of a porpoising penguin, and an unfeathered sparrowhawk plucking its prey. Jargon-free and easily accessible to any reader, the lively text relates birds' anatomy to their lifestyle and evolution, examining such questions as why penguins are bigger than auks, whether harrier hawks really have double-jointed legs, and the difference between wing claws and wing spurs. A landmark in popular bird books, *The Unfeathered Bird* is a must for anyone who appreciates birds or bird art. A unique book that bridges art, science, and history Over 385 beautiful drawings, artistically arranged in a sumptuous large-format book Accessible, jargon-free text--the only book on bird anatomy aimed at the general reader Drawings and text all based on actual bird specimens Includes most anatomically distinct bird groups Many species never illustrated before

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