

## HEGEL'S PHILOSOPHY OF NATURE

Hegel's Philosophy of Nature constitutes the second part of his mature philosophical system presented in the *Encyclopaedia of the Philosophical Sciences*, and covers an exceptionally broad spectrum of themes and issues, as Hegel considers the content and structure of how humanity approaches nature and how nature is understood by humanity. The essays in this volume bring together various perspectives on Hegel's Philosophy of Nature, emphasizing its functional role within the *Encyclopaedia* and its importance for understanding the complexity of Hegel's philosophical project. Together they illuminate the core ideas which form Hegel's philosophical framework in the realm of nature.

MARINA F. BYKOVA is Professor of Philosophy at North Carolina State University. She has most recently edited *Hegel's Philosophy of Spirit: A Critical Guide* (2019), *The German Idealism Reader: Ideas, Responses and Legacies* (2019), *The Bloomsbury Handbook of Fichte* (2020), and *The Palgrave Hegel Handbook* (coedited with K. Westphal, 2020).

## CAMBRIDGE CRITICAL GUIDES

*Titles published in this series:*

Kierkegaard's *Either/Or A Critical Guide*

EDITED BY RYAN S. KEMP AND WALTER WIETZKE

Ciceró's *De Officiis*

EDITED BY RAPHAEL WOOLF

Kierkegaard's *The Sickness unto Death*

EDITED BY JEFFREY HANSON AND SHARON KRISHEK

Nietzsche's *Thus Spoke Zarathustra*

EDITED BY KEITH ANSELL-PEARSON AND PAUL S. LOEB

Aristotle's *On the Soul*

EDITED BY CALEB M. COHOE

Schopenhauer's *World as Will and Representation*

EDITED BY JUDITH NORMAN AND ALISTAIR WELCHMAN

Kant's *Prolegomena*

EDITED BY PETER THIELKE

Hegel's *Encyclopedia of the Philosophical Sciences*

EDITED BY SEBASTIAN STEIN AND JOSHUA WRETZEL

Maimonides' *Guide of the Perplexed*

EDITED BY DANIEL FRANK AND AARON SEGAL

Fichte's *System of Ethics*

EDITED BY STEFANO BACIN AND OWEN WARE

Hume's *An Enquiry Concerning the Principles of Morals*

EDITED BY ESTHER ENGELS KROEKER AND WILLEM LEMMENS

Hobbes's *On the Citizen*

EDITED BY ROBIN DOUGLASS AND OHAN OLSTHOORN

Hegel's *Philosophy of Spirit*

EDITED BY MARINA F. BYKOVA

Kant's *Lectures on Metaphysics*

EDITED BY COURTNEY D. FUGATE

Spinoza's *Political Treatise*

EDITED BY YITZHAK Y. MELAMED AND HASANA SHARP

Aquinas's *Summa Theologiae*

EDITED BY JEFFREY HAUSE

Aristotle's *Generation of Animals*

EDITED BY ANDREA FALCON AND DAVID LEFEBVRE

Hegel's *Elements of the Philosophy of Right*

EDITED BY DAVID JAMES

Kant's *Critique of Pure Reason*

EDITED BY JAMES R. O'SHEA

Spinoza's *Ethics*

EDITED BY YITZHAK Y. MELAMED

Plato's *Symposium*

EDITED BY PIERRE DESTRÉE AND ZINA GIANNOPOLOU

Fichte's *Foundations of Natural Right*

EDITED BY GABRIEL GOTTLIEB

Cambridge University Press & Assessment  
978-1-316-51927-1 — Hegel's Philosophy of Nature  
Marina F. Bykova  
Frontmatter  
[More Information](#)

Aquinas's *Disputed Questions on Evil*

EDITED BY M. V. DOUGHERTY

Aristotle's *Politics*

EDITED BY THORNTON LOCKWOOD AND THANASSIS SAMARA

Aristotle's *Physics*

EDITED BY MARISKA LEUNISSEN

Kant's *Lectures on Ethics*

EDITED BY LARA DENIS AND OLIVER SENSE

Kierkegaard's *Fear and Trembling*

EDITED BY DANIEL CONWAY

Kant's *Lectures on Anthropology*

EDITED BY ALIX COHEN

Kant's *Religion within the Boundaries of Mere Reason*

EDITED BY GORDON MICHALSON

Descartes' *Meditations*

EDITED BY KAREN DETLEFSEN

Augustine's *City of God*

EDITED BY JAMES WETZEL

Kant's *Observations and Remarks*

EDITED BY RICHARD VELKLEY AND SUSAN SHELL

Nietzsche's *On the Genealogy of Morality*

EDITED BY SIMON MAY

Aristotle's *Nicomachean Ethics*

EDITED BY JON MILLER

*Continued after the Index*

CAMBRIDGE

Cambridge University Press & Assessment  
978-1-316-51927-1 — Hegel's Philosophy of Nature  
Marina F. Bykova  
Frontmatter  
[More Information](#)

# HEGEL'S PHILOSOPHY OF NATURE

*A Critical Guide*

EDITED BY

MARINA F. BYKOVA

*North Carolina State University*



Cambridge University Press & Assessment  
978-1-316-51927-1 — Hegel's Philosophy of Nature  
Marina F. Bykova  
Frontmatter  
[More Information](#)



**CAMBRIDGE**  
UNIVERSITY PRESS

Shaftesbury Road, Cambridge CB2 8EA, United Kingdom  
One Liberty Plaza, 20th Floor, New York, NY 10006, USA  
477 Williamstown Road, Port Melbourne, VIC 32007, Australia  
314-321, 3rd Floor, Plot 3, Splendor Forum, Jasola District Centre, New Delhi – 110025, India  
103 Penang Road, #05-06/07, Visioncrest Commercial, Singapore 238467

Cambridge University Press is part of Cambridge University Press & Assessment,  
a department of the University of Cambridge.

We share the University's mission to contribute to society through the pursuit of  
education, learning and research at the highest international levels of excellence.

[www.cambridge.org](http://www.cambridge.org)

Information on this title: [www.cambridge.org/9781316519271](http://www.cambridge.org/9781316519271)

DOI: 10.1017/9781009023160

© Cambridge University Press & Assessment 2024

This publication is in copyright. Subject to statutory exception and to the provisions  
of relevant collective licensing agreements, no reproduction of any part may take  
place without the written permission of Cambridge University Press & Assessment.  
When citing this work, please include a reference to the DOI 10.1017/9781009023160

First published 2024

*A catalogue record for this publication is available from the British Library.*

*Library of Congress Cataloging-in-Publication Data*

NAMES: Bykova, M. F. (Marina Fedorovna), editor.

TITLE: Hegel's Philosophy of nature : a critical guide / edited by Marina F. Bykova,  
North Carolina State University.

DESCRIPTION: Cambridge, United Kingdom : Cambridge University Press, 2024. | Series: Cambridge  
critical guides | Includes bibliographical references and index.

IDENTIFIERS: LCCN 2024013299 (print) | LCCN 2024013300 (ebook) | ISBN 9781316519271  
(hardback) | ISBN 9781009010153 (paperback) | ISBN 9781009023160 (epub)

SUBJECTS: LCSH: Hegel, Georg Wilhelm Friedrich, 1770-1831. Naturphilosophie. |  
Philosophy of nature.

CLASSIFICATION: LCC B2933.Z7 H44 2024 (print) | LCC B2933.Z7 (ebook) |  
DDC 113-dc23/eng/20240416

LC record available at <https://lccn.loc.gov/2024013299>

LC ebook record available at <https://lccn.loc.gov/2024013300>

ISBN 978-1-316-51927-1 Hardback

Cambridge University Press & Assessment has no responsibility for the persistence  
or accuracy of URLs for external or third-party internet websites referred to in this  
publication and does not guarantee that any content on such websites is, or will  
remain, accurate or appropriate.

Cambridge University Press & Assessment  
978-1-316-51927-1 — Hegel's Philosophy of Nature  
Marina F. Bykova  
Frontmatter  
[More Information](#)

*To John W. Burbidge, colleague and friend  
In Memoriam*

## *Contents*

<i>List of Contributors</i>	<i>page</i> xi
<i>Acknowledgments</i>	xiii
<i>List of Abbreviations</i>	xiv
Hegel's Philosophy of Nature: Its Origins, Development, and Contemporary Relevance <i>Marina F. Bykova</i>	I
PART I HEGEL'S PHILOSOPHY OF NATURE IN THE HISTORICAL AND SYSTEMATIC CONTEXT	
1 The Feebleness of the Concept in Nature: A Challenge to Conceptual Realism? <i>Robert Stern and Leonard Weiss</i>	15
2 Nature and Its Limits: <i>Hegel's Idealist Critiques</i> <i>of Physicalism, Naturalism, and Essentialism</i> <i>Sebastian Stein</i>	36
3 <i>Naturphilosophie</i> and the Problem of Clean Hands: Hegel and Alexander von Humboldt on Nature <i>Elizabeth Millán Brusslan</i>	58
4 On Hegel's Account of Nature and Its Philosophical Investigation <i>Marina F. Bykova</i>	76
5 The Logic of Nature: Nature as the “Idea in the Form of Otherness” <i>Angelica Nuzzo</i>	97

## PART II COSMOLOGY, MECHANICS, AND PHYSICS

- |   |  |     |
|---|--|-----|
| 6 | Hegel's <i>Dissertation on the Orbits of the Planets:</i><br>Plato, Kepler, and Newton as Cosmologists<br><i>Paul Redding</i>                                      | 119 |
| 7 | Hegel's Syllogism of Analogy and Organic Conception<br>of Cosmic Life: <i>A Speculative Kantian Legacy in His<br/>Absolute Mechanics?</i><br><i>Cinzia Ferrini</i> | 138 |
| 8 | Hegel's Mechanics as a System of Steps from Space<br>and Time to Celestial Motion<br><i>Ralph M. Kaufmann</i>  | 158 |
| 9 | Logic and Physics in Hegel's Philosophy of Nature<br><i>Stephen Houlgate</i>   | 176 |

## PART III ORGANICS

- |    |   |     |
|----|---|-----|
| 10 | Hegel's Theory of Animal Embodiment<br><i>Christopher Yeomans</i>   | 199 |
| 11 | A Past without History and the Conditions of Life:<br>Hegel on the Terrestrial Organism<br><i>Ansgar Lüssy</i>                        | 217 |
| 12 | Human Beings as the "Perfect Animals": Hegel on the<br>Difference between Animal Life and Human Spirit<br><i>Nicolás García Mills</i> | 238 |

PART IV ON CONTEMPORARY CHALLENGES FOR THE  
PHILOSOPHY OF NATURE

- |    |   |     |
|----|---|-----|
| 13 | The Prospects for an Idealist Natural Philosophy: Logic<br>and Nature<br><i>Terry Pinkard</i> | 259 |
| 14 | Is There a Future for the Philosophy of Nature?<br><i>John W. Burbidge</i>                    | 273 |
|    | <i>Bibliography</i>   | 293 |
|    | <i>Index</i>  | 309 |

## *Contributors*

ELIZABETH MILLÁN BRUSSLAN is Professor of Philosophy at DePaul University.

JOHN W. BURBIDGE was Professor Emeritus of Philosophy at Trent University.

MARINA F. BYKOVA is Professor of Philosophy at North Carolina State University.

CINZIA FERRINI is a senior researcher in philosophy at the University of Trieste.

STEPHEN HOULGATE is Professor of Philosophy at the University of Warwick.

RALPH M. KAUFMANN is Professor of Mathematics with courtesy appointments in the Departments of Philosophy and Physics & Astronomy at Purdue University.

ANSGAR LYSSY is a lecturer and research associate in philosophy at the University of Leipzig.

NICOLÁS GARCÍA MILLS is a lecturer in philosophy at Binghamton University.

ANGELICA NUZZO is Professor of Philosophy at the Graduate Center and Brooklyn College, City University of New York.

TERRY PINKARD is Professor of Philosophy at Georgetown University.

PAUL REDDING is Professor Emeritus of Philosophy at the University of Sydney.

SEBASTIAN STEIN is a Deutsche Forschungsgemeinschaft researcher in philosophy at the University of Heidelberg.

xii

*List of Contributors*

ROBERT STERN is Professor Emeritus of Philosophy at the University of Sheffield.

LEONARD WEISS is a PhD candidate in philosophy at the University of Sheffield.

CHRISTOPHER YEOMANS is Professor of Philosophy at Purdue University.

## Acknowledgments

This volume is the result of the collective efforts of those who contributed to its creation. I am honored and grateful to have worked with such a distinguished group of Hegel scholars who generously shared their knowledge and enthusiasm, making this volume a valuable contribution not only to Hegel studies but also to broader discussions about the role of philosophy in investigating nature and its interaction with humanity.

This book would not have been possible without the support, encouragement, and valuable assistance I received from Hilary Gaskin at Cambridge University Press. I am thankful to Hilary for guiding me through all the stages of the book's development. Many thanks are also owed to Abi Sears, the senior editorial assistant at Cambridge University Press, for her assistance with logistical questions. Special words of appreciation go to the two anonymous reviewers whose valuable suggestions and comments helped shape the scope of this volume and find a more productive approach to certain arguments, thereby enriching the content and enhancing the overall quality of the volume.

Numerous scholarly discussions and private conversations with several colleagues and contributors were instrumental in my work on this volume. I owe a special debt of gratitude to Cinzia Ferrini, who generously shared her ideas and work, responding to my queries and questions.

I want to express my gratitude to my student Kerry Synowiez for his invaluable assistance in creating the index for this book. Additionally, I am pleased to acknowledge the Google Books library for providing a copy of the first edition (1817) of Hegel's *Encyclopaedia of the Philosophical Sciences*, from which extracts are used for the cover of this volume.

## *Abbreviations*

The following is a list of abbreviations used throughout the volume for core references, along with their English translations. References to pages in English translations are provided only when the translation lacks pagination from the critical edition of the relevant thinker's works. If translations have been modified, this is explicitly stated either in a text or in a note, and unless otherwise noted, all emphases are in the original.

Multivolume editions are cited by volume: page numbers; when necessary, line numbers are also included (volume: page.line numbers). Works divided into numbered sections are cited by section (§) number.

### **Hegel's Writings**

Hegel's works *Encyclopaedia of the Philosophical Sciences* and *Philosophy of Right* are cited using section (§) numbers. For these works, "R" indicates Remarks (*Anmerkungen*) and "A" indicates Additions (*Zusätze*). When citing Hegel's published Remarks, the section number is followed by the suffix "R," as in "§345R." When citing student notes from Hegel's lectures, the section number is followed by the suffix "A," as in "§345A." When both a main section and a remark or a lecture note are cited, an ampersand is inserted, as follows: "§345 & R" or "§345 & A."

<i>Diff.</i>	"Differenz des Fichte'schen und Schelling'schen Systems der Philosophie." <i>Kritisches Journal der Philosophie</i> 1(1) (1801): 111–84; rpt. <i>GW</i> 4:3–92. (English translation: <i>The Difference Between Fichte's and Schelling's System of Philosophy</i> , ed. and trans. H. S. Harris and W. Cerf [Albany, State University of New York Press, 1977].)
<i>Diss.</i>	" <i>Philosophical Dissertation on the Orbits of the Planets</i> and the <i>Habilitation Theses</i> ," trans. Pierre Adler. In <i>Miscellaneous Writings of G. W. F. Hegel</i> , ed. Jon

*List of Abbreviations*

xv

<i>Enc.</i>	<i>Stewart.</i> (Evanston: Northwestern University Press, 2000.) <i>Enzyklopädie der philosophischen Wissenschaften</i> (1st ed.: 1817, 2nd ed.: 1827, 3d ed.: 1830), 3 vols., <i>GW</i> 13, 19, 20; cited by §, as needed with the suffix ‘R’ or ‘Z’ (for explanation see start of section).
<i>Enc. 1</i>	<i>Hegel's Encyclopedia Logic</i> , trans. T. Geraets, W. Suchting, and H. S. Harris. (Cambridge, MA: Hackett, 1991.)
<i>Enc. 1BD</i>	<i>Encyclopedia of the Philosophical Sciences in Basic Outline – Part 1: Science of Logic</i> , trans. and ed. K. Brinkmann and D. O. Dahlstrom. (Cambridge: Cambridge University Press, 2015.)
<i>Enc. 2</i>	<i>Hegel's Philosophy of Nature</i> , trans. A. V. Miller. (Oxford: The Clarendon Press, 1970; 2nd ed. 2014.)
<i>Enc. 2P</i>	<i>Hegel's Philosophy of Nature</i> , 3 vols., ed. and trans. M. J. Petry. (London: George Allen & Unwin; New York: Humanities Press, 1970.)
<i>Enc. 3</i>	<i>Hegel's Philosophy of Mind</i> , trans. W. Wallace and A. V. Miller. (Oxford: Clarendon Press, 1976.)
<i>Enc. 3I</i>	<i>Hegel's Philosophy of Mind</i> , trans. W. Wallace and A. V. Miller, with revisions and commentary by M. J. Inwood. (Oxford: Clarendon Press, 2007.)
<i>Enc. 3P</i>	<i>Hegel's Philosophy of Subjective Spirit</i> ( <i>Enc. 3</i> , §§377–482), 3 vols., trans. and ed. M. J. Petry. (Dordrecht: D. Reidel, 1978.)
<i>ENZ</i>	<i>Enzyklopädie der philosophischen Wissenschaften</i> (1830). (Hamburg: Felix Meiner, 1991.)
<i>GVNat</i>	<i>Vorlesung über Naturphilosophie Berlin</i> 1823/24. Nachschrift von K. G. J. v. Griesheim, hrsg. v. G. Marmasse. (Frankfurt a.M. et al.: Peter Lang, 2000.)
<i>GW</i>	<i>Gesammelte Werke</i> , 21 vols. Deutsche Forschungsgemeinschaft, with the Hegel-Kommission der Rheinisch-Westfälischen Akademie der Wissenschaften and the Hegel-Archiv der Ruhr-Universität Bochum. (Hamburg: Meiner, 1968–2017.)
<i>HEnc.</i>	<i>Encyclopädie der philosophischen Wissenschaften im Grundlehre</i> . (Heidelberg: August Osswald's Universitätsbuchhandlung, 1817.)
<i>IPH</i>	<i>Introduction to the Philosophy of History</i> , trans. Leo Rauch. (Indianapolis: Hackett, 1988.)

<i>JS III</i>	<i>Jena Systementwürfe III (1805–1806). GW 8.</i>
<i>LFA</i>	<i>Hegel's Aesthetics: Lectures on Fine Art.</i> 2 vols., trans. and ed. T. M. Knox. (Oxford: Oxford University Press, 1975.)
<i>LHP-B</i>	<i>Lectures on the History of Philosophy: The Lectures of 1825–1826.</i> 3 vols., trans. and ed. R. F. Brown. (Oxford: Oxford University Press, 2009.)
<i>LPhWH-N</i>	<i>Lectures on the Philosophy of World History : Introduction, Reason in History,</i> ed. Johannes Hoffmeister, trans. H. B. Nisbet (Cambridge: Cambridge University Press, 1975.)
<i>MM</i>	<i>Werke in 20 Bänden,</i> ed. Eva Moldenhauer and Karl Markus Michel, 20 vols. (Frankfurt am Main: Suhrkamp, 1969–71)
<i>PhG</i>	<i>System der Wissenschaft. Erster Theil, die Phänomenologie des Geistes</i> (1807). GW 9.
<i>PR</i>	<i>Elements of the Philosophy of Right</i> , ed. A. Wood, trans. H. B. Nisbet. (Cambridge: Cambridge University Press, 1991.) (Translation of <i>Naturrecht und Staatswissenschaft im Grundrisse: Grundlinien der Philosophie des Rechts</i> (1821). GW 14.)
<i>PR<sub>H</sub></i>	<i>Hegel's Philosophy of Right</i> , 2nd ed., ed. T. M. Knox, trans. S. Houlgate. (Oxford: The Clarendon Press, 2008.)
<i>PS</i>	<i>The Phenomenology of Spirit</i> , trans. T. Pinkard. (New York: Cambridge University Press, 2018.) Cited by paragraph numbers.
<i>SL</i>	<i>The Science of Logic</i> , trans. George di Giovanni. (Cambridge: Cambridge University Press, 2010.)
<i>UVNat</i>	Vorlesung über Naturphilosophie Berlin 1821/22. Nachschrift von Boris von Uexküll. Hgg. v. Gilles Marmasse und Thomas Posch. (Frankfurt a.M. et al.: Lang, 2002.)
<i>V</i>	<i>Vorlesungen: Ausgewählte Nachschriften und Manuskripte.</i> 16 vols. (Hamburg: Meiner, 1983–.)
<i>VGPh-L</i>	<i>Vorlesungen über die Philosophie der Geschichte</i> , with an Introduction by Theodor Litt. (Stuttgart: Reclam, 1961.)
<i>VGPhI-4</i>	<i>Vorlesungen über die Geschichte der Philosophie.</i> In <i>Vorlesungen</i> , vols. 6–9, ed. P. Garniron and W. Jaeschke. (Hamburg: Meiner, 1986–96.)
<i>VHGesch</i>	<i>Die Vernunft in der Geschichte</i> , ed. J. Hoffmeister. Hamburg: Felix Meiner, 1955.

*List of Abbreviations*

xvii

<i>VNat<sub>1</sub></i>	<i>Vorlesungen über die Philosophie der Natur (1819–1820).</i> <i>Vorlesungen</i> vol. 16, ed. M. Bondeli and H. N. Seelmann. (Hamburg: Meiner, 2002.)
<i>VNat<sub>2</sub></i>	<i>Vorlesungen über die Philosophie der Natur (1825–1826).</i> <i>Vorlesungen</i> vol. 17, ed. K. Bal, G. Marmasse, Th. Posch, and K. Vieweg. (Hamburg: Meiner, 2007.)
<i>VNat-GW</i>	<i>Vorlesungen über die Philosophie der Natur. GW 24.</i>
<i>VNat<sub>1</sub>-GW</i>	Nachschriften zu den Kollegien der Jahre 1819/20, 1821/22 und 1823/24. Hg. v. Wolfgang Bonsiepen. 2012. <i>GW 24,1</i>
<i>VNat<sub>2</sub>-GW</i>	Nachschriften zu den Kollegien der Jahre 1825/26 und 1828. Unter Mitarbeit von Wolfgang Bonsiepen hg. v. Niklas Hebing. 2014. <i>GW 24, 2.</i>
<i>VNat<sub>3</sub>-GW</i>	Sekundäre Überlieferung. Hg. v. Niklas Hebing. 2016. <i>GW 24,3.</i>
<i>WL</i>	<i>Wissenschaft der Logik. Erster Band: Die objective Logik (1812).</i> <i>GW 11.</i> <i>Wissenschaft der Logik. Zweiter Band: Die subjective Logik oder Lehre vom Begriff (1816).</i> <i>GW 12.</i> <i>Wissenschaft der Logik. Erster Teil: Die objective Logik. Erster Band. Die Lehre vom Seyn (1832).</i> <i>GW 21.</i>

**Kant's Writings**

<i>Ak.</i>	<i>Kants Gesammelte Schriften</i> , 29 vols. Königlich Preußische (now Deutsche) Akademie der Wissenschaften. (Berlin: G. Reimer, now De Gruyter, 1902–)
<i>CJ</i>	<i>Critique of the Power of Judgment</i> , ed. P. Guyer, trans. P. Guyer and E. Matthews. (Cambridge: Cambridge University Press, 2000.) (English translation of <i>Kritik der Urteilskraft</i> [1790], <i>Ak 5.</i> ) Cited by <i>Ak</i> paragraph numbers.
<i>CNM</i>	“Attempt to Introduce the Concept of Negative Magnitudes into Philosophy (1763).” In <i>Theoretical Philosophy, 1755–1770</i> , trans. and ed. David Walford in collaboration with Ralf Meerbote. (Cambridge: Cambridge University Press, 1992.)
<i>Corr.</i>	<i>Briefwechsel</i> . In <i>Ak. 10</i> (1747–88)/ <i>Ak. 11</i> (1789–94). (English translation: <i>Correspondence</i> , trans. and ed. A. Zweig. (Cambridge: Cambridge University Press, 1999.)
<i>CPR</i>	<i>Critique of Pure Reason</i> , trans. and ed. P. Guyer and A. Wood. (Cambridge: Cambridge University Press, 1998.) (English translation of <i>Kritik der reinen Vernunft</i> , 1st ed., 1781 [A], <i>Ak 4</i> ; 2nd ed., 1787 [B], <i>Ak 3.</i> ) Cited by A/B pagination.

xviii

*List of Abbreviations*

- MFNS* *Metaphysische Anfangsgründe der Naturwissenschaft* (1786), Ak 4. (English translation: *Metaphysical Foundations of Natural Science*, trans., ed. M. Friedman. [Cambridge: Cambridge University Press, 2004].)
- MMr* *Metaphysik Mrongovius*. In Ak. 29, 747–940. (English translation: *Metaphysic Mrongovius* [1782–83]. In I. Kant, *Lectures on Metaphysics*, trans. and ed. Karl Ameriks and Steve Naragon, 109–286. [Cambridge: Cambridge University Press, 1997].)
- Ref.* *Reflexionen zur Physik und Chemie*. In Ak. 14, *Kants Handschriftlicher Nachlaß*, Bd. I. *Mathematik-Physik und Chemie Physische Geographie*, 63–537.
- PC*
- THA* *Allgemeiner Naturgeschichte und Theorie des Himmels oder Versuch von der Verfassung und dem mechanischen Ursprunge des ganzen Welgebäude, nach Newtonischen Grundsätzen abgehandelt*. In Ak. 1: 215–368. (English translation: *Universal Natural History and Theory of the Heavens or Essay on the Constitution and the Mechanical Origin of the Whole Universe according to Newtonian principles* [1755]. In I. Kant, *Natural Science*, ed. Eric Watkins, trans. Lewis White Beck et al., 182–308. [Cambridge: Cambridge University Press, 2012].)

**Schelling's Writings**

- HKA* *Werke: Historisch-Kritische Ausgabe*. Projekt Schelling – Edition und Archiv der Bayerischen Akademie der Wissenschaften. (Stuttgart-Bad Cannstatt: Frommann-Holzboog, 1976–.)
- HMPHA* *On the History of Modern Philosophy*, trans. Andrew Bowie. (Cambridge: Cambridge University Press, 1994.)
- PSPH* *Presentation of My System of Philosophy* (1801). In *The Philosophical Rupture between Fichte and Schelling: Selected Texts and Correspondence* (1800–1802), trans. and ed. Michael G. Vater and David W. Wood, 141–205. (Albany: State University of New York Press, 2012. SSW I/4.)
- SW* *Schellings Werke*, ed. M. Schröter. (Munich: Beck, 1958.)
- Tim* *Timaeus* (1794): Zur Bedeutung der Timaeus-Handschrift für Schellings Naturphilosophie, ed. Hartmut Buchner and Hermann Krings. (Stuttgart-Bad Cannstatt: Frommann-Holzboog, 1994.)