

Annual Review of Astronomy and Astrophysics

Volume 61, Plus Online Access to Volumes 1-61. September 2023. astro.annualreviews.org

AAS Member Discounted Price: \$100 (worldwide) Regular price: \$180.00

Co-Editors: Robert C. Kennicutt, Steward Observatory, University of Arizona and Texas A&M University

Ewine F. van Dishoeck, Leiden Observatory, Leiden University and Max Planck Institute for Extraterrestrial Physics, Garching

TABLE OF CONTENTS AND AUTHORS:

- A Walk in Time and Space: My Journey as a Strategic Scientist, Shuhua Ye
- Atomic Hydrogen in the Milky Way: A Stepping Stone in the Evolution of Galaxies, Naomi M. McClure-Griffiths, Snežana Stanimirović, Daniel R. Rybarczyk
- The First Stars: Formation, Properties, and Impact, Ralf S. Klessen, Simon C.O. Glover
- Key Physical Processes in the Circumgalactic Medium, Claude-André Faucher-Giguère, S. Peng Oh
- The Interstellar Interlopers, David Jewitt, Darryl Z. Seligman
- Advances in Optical/Infrared Interferometry, Frank Eisenhauer, John D. Monnier, Oliver Pfuhl
- Protoplanetary Disk Chemistry, Karin I. Öberg, Stefano Facchini, Dana E. Anderson

- Gaussian Process Regression for Astronomical Time Series, Suzanne Aigrain, Daniel Foreman-Mackey
- Quasars and the Intergalactic Medium at Cosmic Dawn, Xiaohui Fan, Eduardo Bañados, Robert A. Simcoe
- New Insights from Imaging Spectroscopy of Solar Radio Emission, Dale E. Gary
- Hydrodynamical Simulations of the Galaxy Population: Enduring Successes and Outstanding Challenges, Robert A. Crain, Freeke van de Voort
- Circumbinary Accretion: From Binary Stars to Massive Binary Black Holes, Dong Lai, Diego J. Muñoz
- Galactic Dynamos, Axel Brandenburg, Evangelia Ntormousi

Annual Review of Earth and Planetary Sciences

Volume 51, Plus Online Access to Volumes 1-51 • May 2023 • earth.annualreviews.org

AAS Member Discounted Price: \$100 (worldwide) Regular price: \$180.00

Co-Editors: Katherine H. Freeman, Pennsylvania State University Raymond Jeanloz, University of California, Berkeley

TABLE OF CONTENTS AND AUTHORS:

- Estella Atekwana: Autobiographical Notes, Estella A. Atekwana
- The Evolving Chronology of Moon Formation, Lars E. Borg, Richard W. Carlson
- Harnessing the Power of Communication and Behavior Science to Enhance Society's Response to Climate Change, Edward W. Maibach, Sri Saahitya Uppalapati, Margaret Orr, Jagadish Thaker
- River Deltas and Sea-Level Rise, Jaap H. Nienhuis, Wonsuck Kim,
 Glenn A. Milne, Melinda Quock, Aimée B.A. Slangen, Torbjörn E. Törnqvist
- Machine Learning in Earthquake Seismology, S. Mostafa Mousavi, Gregory C. Beroza
- Bubble Formation in Magma, James E. Gardner, Fabian B. Wadsworth,
 Tamara L. Carley, Edward W. Llewellin, Halim Kusumaatmaja, Dork Sahagian
- Continental Crustal Growth Processes Recorded in the Gangdese Batholith, Southern Tibet, Di-Cheng Zhu, Qing Wang, Roberto F. Weinberg, Peter A. Cawood, Zhidan Zhao, Zeng-Qian Hou, Xuan-Xue Mo
- Iceberg Calving: Regimes and Transitions, R.B. Alley, K.M. Cuffey, J.N. Bassis, K.E. Alley, S. Wang, B.R. Parizek, S. Anandakrishnan, K. Christianson, R.M. DeConto
- Fracture Energy and Breakdown Work During Earthquakes, Massimo Cocco, Stefano Aretusini, Chiara Cornelio, Stefan B. Nielsen, Elena Spagnuolo, Elisa Tinti, Giulio Di Toro
- Evolution of Atmospheric O₂ Through the Phanerozoic, Revisited, Benjamin J.W. Mills, Alexander J. Krause, Ian Jarvis, Bradley D. Cramer
- Instructive Surprises in the Hydrological Functioning of Landscapes,
 James W. Kirchner, Paolo Benettin, Ilja van Meerveld
- Deconstructing the Lomagundi-Jatuli Carbon Isotope Excursion,
 Malcolm S.W. Hodgskiss, Peter W. Crockford, Alexandra V. Turchyn



- Elastic Thermobarometry, Matthew J. Kohn, Mattia L. Mazzucchelli, Matteo Alvaro
- Mimas: Frozen Fragment, Ring Relic, or Emerging Ocean World? Alyssa Rose Rhoden
- The Mid-Pleistocene Climate Transition, Timothy D. Herbert
- Neogene History of the Amazonian Flora: A Perspective Based on Geological, Palynological, and Molecular Phylogenetic Data, Carina Hoorn, Lúcia G. Lohmann, Lydian M. Boschman, Fabien L. Condamine
- Hydrological Consequences of Solar Geoengineering, Katharine Ricke, Jessica S. Wan, Marissa Saenger, Nicholas J. Lutsko
- What Models Tell Us About the Evolution of Carbon Sources and Sinks over the Phanerozoic, Y. Goddéris, Y. Donnadieu, B.J.W. Mills
- The Rock-Hosted Biosphere, Alexis S. Templeton, Tristan A. Caro
- Petrogenesis and Geodynamic Significance of Xenolithic Eclogites, Sonja Aulbach, Katie A. Smart
- A Systems Approach to Understanding How Plants Transformed Earth's Environment in Deep Time, William J. Matthaeus, Sophia I. Macarewich, Jon Richey, Isabel P. Montañez, Jennifer C. McElwain, Joseph D. White, Jonathan P. Wilson, Christopher J. Poulsen
- Ductile Deformation of the Lithospheric Mantle, Jessica M. Warren, Lars N. Hansen
- Frontiers of Carbonate Clumped Isotope Thermometry, Katharine W. Huntington, Sierra V. Petersen
- Mars Seismology, P. Lognonné, W.B. Banerdt, J. Clinton, R.F. Garcia,
 D. Giardini, B. Knapmeyer-Endrun, M. Panning, W.T. Pike
- The Role of Giant Impacts in Planet Formation, Travis S.J. Gabriel, Saverio Cambioni

ANNUAL REVIEWS 2023 PERSONAL COPY ORDER FORM • AAS Members

Prepayment required | Order by phone, fax, or mail using this form or place your order online at www.annualreviews.org. Your personal subscription includes permanent data rights to that volume's full-text online content,

Please mention priority code **AAS** when placing your order.

SHIPPING					
SHIPPING ADDRESS ALL FIELDS REQUIRED. PLEASE PRINT CLEARLY					
Today's Date:		Email:			
Name:					
Institution:					
Address:					
City:		State:	Postal Code/Zip:		
Country:					
Day Phone: ()		Fax:()			
BILLING					
PAYMENT METHOD (PLEASE CHECK ONE):					
O Check/Money Order (payable to annual reviews drawn on a us bank in us dollars)					
O Charge: O VISA O MasterCard O AMEX		Account No.:	Expiration Date (Mo/YR):	rtion Date (Mo/Yr):	
First Name:		Last Name:	Signature:	ure:	
PRINT NAME EXACTLY AS IT APPEARS ON CREDIT CARD					
CREDIT CARD BILLING ADDRESS REQUIRED O Same as Shipping Address					
Name:					
Address:					
City:		State:	Postal Code/Zip:	tal Code/Zip:	
Country:					
JOURNAL ORDER					
Qty		Journal	AAS Discounted Price	Total	
	Annual Review of Astronomy and Astrophysics, Volume 61 Personal Subscription		\$100		
	Annual Review of Earth and Planetary Sciences, Volume 51 Personal Subscription \$100				
USA and Canadian Customers : Applicable Sales, GST, HST Taxes will be calculated based on ship-to address.					
Handling charges • Add \$6 per volume • Applies to all orders • Max \$18.00 per ship-to location					
SUBTOTAL					
Standard shipping • US Mail special 4th class (surface), no extra charge				N/C	
Expedited shipping is available. Contact Customer Service for cost.					
TOTAL					

FOR MORE INFORMATION ON TAXES, FEES, AND SHIPPING POLICY, PLEASE SEE: http://www.annualreviews.org/page/subscriptions/general-information

SEND PERSONAL COPY VOLUME ORDERS TO (New Credit Card customers, please call Customer Service before placing your order):

USA

CREDIT CARD PAYMENTS:

Annual Reviews P.O. Box 10139

Tel: 800.523.8635 (Toll Free USA/CAN) 650.493.4400 Fax: 888.355.0123 (Worldwide)

Email: service@annualreviews.org

Palo Alto, CA 94303-0139 USA

CHECK PAYMENTS: Annual Reviews

P.O. Box 883729 Los Angeles, CA 90088-3729

Email: service@annualreviews.org

WANT TO PAY YOUR BILL ONLINE?

Contact us:

Email: service@annualreviews.org Tel: 800.523.8635 (Toll Free USA/CAN)

ANNUAL REVIEWS | Connect With Our Experts

P.O. Box 10139 | Palo Alto, CA 94303-0139 USA

Call Toll Free (USA/Canada): 800.523.8635 or 650.493.4400 | Fax: 650.424.0910 | Email: service@annualreviews.org | www.annualreviews.org