

Top Downloaded/Cited Paper FAQs

What is considered a top cited paper?

Top cited papers are the journal’s most often cited articles published between January 2020 and December 2021. This was determined based on the size of the journal.

What is considered a top downloaded paper?

Top downloaded papers are the 10 top-downloaded articles between January 2020 and December 2021 for a particular AGU journal.

Are these the top downloaded or cited papers of all time?

No. These are the top cited papers published between January 2020 and December 2021, and the top downloaded papers from January 2020-December 2020.

Where can I see a list of all the top downloaded and top cited papers from this campaign?

Please see the full list at the end of this FAQ.

I have more questions. Who should I contact?

Please direct any questions to publications@agu.org

List of Top Cited Papers

DOI	Article Title
10.1029/2020AV000291	Borehole-Based Characterization of Deep Mixed-Mode Crevasses at a Greenlandic Outlet Glacier
10.1029/2020AV000284	Carbon-Neutral Pathways for the United States
10.1029/2020AV000321	Drainage Canals in Southeast Asian Peatlands Increase Carbon Emissions
10.1029/2020AV000283	Land-Atmosphere Interactions Exacerbated the Drought and Heatwave Over Northern Europe During Summer 2018
10.1029/2020AV000350	Quantifying Global Power Plant Carbon Dioxide Emissions With Imaging Spectroscopy
10.1029/2020AV000315	Reassessing Eastern Mediterranean Tectonics and Earthquake Hazard From the 365 CE Earthquake
10.1029/2020AV000303	Urban Forests as Main Regulator of the Evaporative Cooling Effect in Cities
10.1029/2019EF001363	Capping Human Water Footprints in the World's River Basins

10.1029/2019EF001391	Collaborative Modeling With Fine - Resolution Data Enhances Flood Awareness, Minimizes Differences in Flood Perception, and Produces Actionable Flood Maps
10.1029/2019EF001421	Doubling of US Population Exposure to Climate Extremes by 2050
10.1029/2019EF001337	Future Drought in the Dry Lands of Asia Under the 1.5 and 2.0 degrees C Warming Scenarios
10.1029/2019EF001469	Insights From CMIP6 for Australia's Future Climate
10.1029/2019EF001377	Integrating the Water Planetary Boundary With Water Management From Local to Global Scales
10.1029/2020EF001520	Intercomparison of Magnitudes and Trends in Anthropogenic Surface Emissions From Bottom-Up Inventories, Top-Down Estimates, and Emission Scenarios
10.1029/2020EF001547	Iran's Agriculture in the Anthropocene
10.1029/2019EF001470	Partitioning the Uncertainty of Ensemble Projections of Global Glacier Mass Change
10.1029/2020EF001502	Projected Impacts of Climate Change on Drought Patterns Over East Africa
10.1029/2019EF001474	Regional Climate Sensitivity of Climate Extremes in CMIP6 Versus CMIP5 Multimodel Ensembles
10.1029/2019EF001382	The Role of Urban Growth in Resilience of Communities Under Flood Risk
10.1029/2019EF001461	Twenty-First Century Drought Projections in the CMIP6 Forcing Scenarios
10.1029/2019EF001425	Why We Can No Longer Ignore Consecutive Disasters
10.1029/2019EA000897	ISC-EHB 1964-2016, an Improved Data Set for Studies of Earth Structure and Global Seismicity
10.1029/2020EA001317	Detection, Analysis, and Removal of Glitches From InSight's Seismic Data From Mars
10.1029/2019EA000740	Comparative Assessment of Various Machine Learning-Based Bias Correction Methods for Numerical Weather Prediction Model Forecasts of Extreme Air Temperatures in Urban Areas
10.1029/2019EA000975	Assessment of CMIP6 Cloud Fraction and Comparison with Satellite Observations
10.1029/2020EA001315	How Accurately Can Satellite Products (TMPA and IMERG) Detect Precipitation Patterns, Extremities, and Drought Across the Nepalese Himalaya?
10.1029/2020EA001111	Huntsville Alabama Marx Meter Array 2: Upgrade and Capability
10.1029/2019EA000978	Comparison of Reanalysis Data Sets to Comprehend the Evolution of Tropical Cyclones Over North Indian Ocean
10.1029/2019EA001065	Improvements in Circumpolar Southern Hemisphere Extratropical Atmospheric Circulation in CMIP6 Compared to CMIP5
10.1029/2019EA000812	A Deep Learning-Based Methodology for Precipitation Nowcasting With Radar
10.1029/2019EA000836	A Detectable Anthropogenic Shift Toward Intensified Summer Hot Drought Events Over Northeastern China
10.1029/2020EA001357	Comparative Assessment of Snowfall Retrieval From Microwave Humidity Sounders Using Machine Learning Methods

10.1029/2019EA001058	Daily Global Solar Radiation in China Estimated From High-Density Meteorological Observations: A Random Forest Model Framework
10.1029/2020EA001165	Impact of Roughness Length on WRF Simulated Land-Atmosphere Interactions Over a Hyper-Arid Region
10.1029/2020EA001248	Location and Setting of the Mars InSight Lander, Instruments, and Landing Site
10.1029/2019EA000992	Scientific Observations With the InSight Solar Arrays: Dust, Clouds, and Eclipses on Mars
10.1029/2019EA000857	Spatiotemporal Assessments on the Satellite-Based Precipitation Products From Fengyun and GPM Over the Yunnan-Kweichow Plateau, China
10.1029/2019EA000720	Studies of a Lacustrine-Volcanic Mars Analog Field Site With Mars-2020-Like Instruments
10.1029/2019EA000910	Validation of Surface Temperature Derived From MERRA-2 Reanalysis Against IMD Gridded Data Set Over India
10.1029/2019EA000960	Automated River Plastic Monitoring Using Deep Learning and Cameras
10.1029/2020EA001086	Calibration of the HP3 Radiometer on InSight
10.1029/2020EA001321	NRLMSIS 2.0: A Whole-Atmosphere Empirical Model of Temperature and Neutral Species Densities
10.1029/2019EA000644	Automated Estimation and Tools to Extract Positions, Velocities, Breaks, and Seasonal Terms From Daily GNSS Measurements: Illuminating Nonlinear Salton Trough Deformation
10.1029/2019EA000671	Characteristic Time Scales of Decadal to Centennial Changes in Global Surface Temperatures Over the Past 150 Years
10.1029/2020EA001129	Observations of an Extreme Atmospheric River Storm With a Diverse Sensor Network
10.1029/2019EA001052	Quantification of Uncertainty in Projections of Extreme Daily Precipitation
10.1029/2020EA001121	Homogenizing GPS Integrated Water Vapor Time Series: Benchmarking Break Detection Methods on Synthetic Data Sets
10.1029/2019EA000662	Landslide Scaling: A Review
10.1029/2019EA000874	Quantified Aeolian Dune Changes on Mars Derived From Repeat Context Camera Images
10.1029/2019GB006348	A Global Model for Methylmercury Formation and Uptake at the Base of Marine Food Webs
10.1029/2019GB006446	Biogeochemical Connectivity Between Freshwater Ecosystems beneath the West Antarctic Ice Sheet and the Sub-Ice Marine Environment
10.1029/2019GB006397	Biological Control of Chromium Redox and Stable Isotope Composition in the Surface Ocean
10.1029/2020GB006536	Characterizing and Quantifying African Dust Transport and Deposition to South America: Implications for the Phosphorus Budget in the Amazon Basin
10.1029/2018GB006061	Evolution of the Global Carbon Cycle and Climate Regulation on Earth
10.1029/2020GB006704	Gelatinous Zooplankton-Mediated Carbon Flows in the Global Oceans: A Data-Driven Modeling Study

10.1029/2019GB006448	Impact of Changes to the Atmospheric Soluble Iron Deposition Flux on Ocean Biogeochemical Cycles in the Anthropocene
10.1029/2020GB006567	Iron Supply by Subglacial Discharge Into a Fjord Near the Front of a Marine-Terminating Glacier in Northwestern Greenland
10.1029/2019GB006229	Processes Driving Global Interior Ocean pH Distribution
10.1029/2018GB006060	Quantifying Nutrient Budgets for Sustainable Nutrient Management
10.1029/2020GB006541	Solute Production and Transport Processes in Chinese Monsoonal Rivers: Implications for Global Climate Change
10.1029/2019GB006393	Sources of Uncertainty in Regional and Global Terrestrial CO ₂ Exchange Estimates
10.1029/2019GB006387	The Global Distribution of Biological Nitrogen Fixation in Terrestrial Natural Ecosystems
10.1029/2019GB006453	Time of Emergence and Large Ensemble Intercomparison for Ocean Biogeochemical Trends
10.1029/2020GC009177	A Lithosphere-Asthenosphere Boundary and Partial Melt Estimated Using Marine Magnetotelluric Data at the Central Middle Atlantic Ridge
10.1029/2019GC008611	Evidences of Plug Pressurization Enhancing Magma Fragmentation During the September 2016 Basaltic Eruption at Piton de la Fournaise (La Reunion Island, France)
10.1029/2020GC009017	South Atlantic Transect: Variations in Oceanic Crustal Structure at 31 degrees S
10.1029/2019GC008440	The Nitrogen Isotopic Composition of Tissue and Shell-Bound Organic Matter of Planktic Foraminifera in Southern Ocean Surface Waters
10.1029/2020GC008993	The Slab Puzzle of the Alpine-Mediterranean Region: Insights From a New, High-Resolution, Shear Wave Velocity Model of the Upper Mantle
10.1029/2019GC008843	Thermochemical Modification of the Upper Mantle Beneath the Northern Malawi Rift Constrained From Shear Velocity Imaging
10.1029/2020GC009122	The Evolving Paleobathymetry of the Circum-Antarctic Southern Ocean Since 34 Ma: A Key to Understanding Past Cryosphere-Ocean Developments
10.1029/2019GC008414	What Can We Learn From X-Ray Fluorescence Core Scanning Data? A Paleomonsoon Case Study
10.1029/2020GC009174	Evolution of the Oceanic Lithosphere in the Equatorial Atlantic From Rayleigh Wave Tomography, Evidence for Small-Scale Convection From the PI-LAB Experiment
10.1029/2020GC009147	High-Sensitivity Moment Magnetometry With the Quantum Diamond Microscope
10.1029/2019GC008663	Plume-Induced Subduction Initiation: Single-Slab or Multi-Slab Subduction?
10.1029/2019GC008838	Towards FAIR Paleomagnetic Data Management Through Paleomagnetism.org 2.0
10.1029/2020GC009117	A Quantitative Tomotectonic Plate Reconstruction of Western North America and the Eastern Pacific Basin

10.1029/2020GC009588	InterCarb: A Community Effort to Improve Interlaboratory Standardization of the Carbonate Clumped Isotope Thermometer Using Carbonate Standards
10.1029/2019GC008666	Unraveling the Mineralogical Complexity of Sediment Iron Speciation Using Sequential Extractions
10.1029/2020GC009214	A Global Data Set of Present-Day Oceanic Crustal Age and Seafloor Spreading Parameters
10.1029/2020GC009046	A Late Eocene-Oligocene Through-Flowing River Between the Upper Yangtze and South China Sea
10.1029/2019GC008707	Effect of Intense Weathering and Postdepositional Degradation of Organic Matter on Hg/TOC Proxy in Organic-rich Sediments and its Implications for Deep-Time Investigations
10.1029/2019GC008690	AGU Centennial Grand Challenge: Volcanoes and Deep Carbon Global CO ₂ Emissions From Subaerial Volcanism-Recent Progress and Future Challenges
10.1029/2020GH000260	Associations Between Dust Storms and Intensive Care Unit Admissions in the United States, 2000-2015
10.1029/2020GH000305	Impact of Extreme Hot Climate on COVID-19 Outbreak in India
10.1029/2020GH000275	Public Health and Climate Benefits and Trade-Offs of US Vehicle Electrification
10.1029/2020GH000277	The Impact of a Six-Year Climate Anomaly on the "Spanish Flu" Pandemic and WWI
10.1029/2019GH000237	Fossil Fuel Combustion Is Driving Indoor CO ₂ Toward Levels Harmful to Human Cognition
10.1029/2020GH000287	Human Vulnerability to Landslides
10.1029/2020GH000303	Understanding the Epidemic Course in Order to Improve Epidemic Forecasting
10.1029/2019GH000240	Global Climate and Human Health Effects of the Gasoline and Diesel Vehicle Fleets
10.1029/2018GH000167	New Approaches to Identifying and Reducing the Global Burden of Disease From Pollution
10.1029/2020GH000254	Quantifying the Human Health Benefits of Using Satellite Information to Detect Cyanobacterial Harmful Algal Blooms and Manage Recreational Advisories in US Lakes
10.1029/2019GH000225	Santa Ana Winds of Southern California Impact PM _{2.5} With and Without Smoke From Wildfires
10.1029/2020GH000268	Premature Deaths in Brazil Associated With Long-Term Exposure to PM _{2.5} From Amazon Fires Between 2016 and 2019
10.1029/2019GH000234	The Effects of Heat Exposure on Human Mortality Throughout the United States
10.1029/2020GH000319	Compound Risks of Hurricane Evacuation Amid the COVID-19 Pandemic in the United States

10.1029/2019GH000222	Elevated Hair Mercury Levels Are Associated With Neurodevelopmental Deficits in Children Living Near Artisanal and Small-Scale Gold Mining in Peru
10.1029/2020GH000272	The Silver Lining of COVID-19: Estimation of Short-Term Health Impacts Due to Lockdown in the Yangtze River Delta Region, China
10.1029/2019GL086749	Arctic Sea Ice in CMIP6
10.1029/2019GL085782	Causes of Higher Climate Sensitivity in CMIP6 Models
10.1029/2019GL086382	Complex Rupture of an Immature Fault Zone: A Simultaneous Kinematic Model of the 2019 Ridgecrest, CA Earthquakes
10.1029/2020GL089269	Disentangling the Impact of the COVID-19 Lockdowns on Urban NO ₂ From Natural Variability
10.1029/2020GL088306	Extending the Global Mass Change Data Record: GRACE Follow-On Instrument and Science Data Performance
10.1029/2020GL087978	Impact of Coronavirus Outbreak on NO ₂ Pollution Assessed Using TROPOMI and OMI Observations
10.1029/2020GL088533	Puzzling Haze Events in China During the Coronavirus (COVID-19) Shutdown
10.1029/2020GL087820	Robust Future Changes in Meteorological Drought in CMIP6 Projections Despite Uncertainty in Precipitation
10.1029/2019GL086577	September 2019 Antarctic Sudden Stratospheric Warming: Quasi-6-Day Wave Burst and Ionospheric Effects
10.1029/2020GL088070	The Response in Air Quality to the Reduction of Chinese Economic Activities During the COVID-19 Outbreak
10.1029/2019MS002025	GISS-E2.1: Configurations and Climatology
10.1029/2019MS001940	Implementation of the CMIP6 Forcing Data in the IPSL-CM6A-LR Model
10.1029/2019MS001896	Machine Learning for Stochastic Parameterization: Generative Adversarial Networks in the Lorenz '96 Model
10.1029/2018MS001453	Perspectives on the Future of Land Surface Models and the Challenges of Representing Complex Terrestrial Systems
10.1029/2019MS002002	Physically Interpretable Neural Networks for the Geosciences: Applications to Earth System Variability
10.1029/2019MS002010	Presentation and Evaluation of the IPSL-CM6A-LR Climate Model
10.1029/2019MS001882	The Chemistry Mechanism in the Community Earth System Model Version 2 (CESM2)
10.1029/2019MS001916	The Community Earth System Model Version 2 (CESM2)
10.1029/2019MS002012	The Flexible Global Ocean-Atmosphere-Land System Model Grid-Point Version 3 (FGOALS-g3): Description and Evaluation
10.1029/2019MS002015	The GFDL Earth System Model Version 4.1 (GFDL-ESM 4.1): Overall Coupled Model Description and Simulation Characteristics
10.1029/2019JA027508	Another Mini Solar Maximum in the Offing: A Prediction for the Amplitude of Solar Cycle 25
10.1029/2019JA027639	Atmospheric Escape Processes and Planetary Atmospheric Evolution
10.1029/2019JA027699	Energetic Particles and Acceleration Regions Over Jupiter's Polar Cap and Main Aurora: A Broad Overview

10.1029/2019JA027693	Energy Flux and Characteristic Energy of Electrons Over Jupiter's Main Auroral Emission
10.1029/2019JA027213	Evolution of a Long-Duration Coronal Mass Ejection and Its Sheath Region Between Mercury and Earth on 9-14 July 2013
10.1029/2020JA028283	Excitation Mechanism of Ionospheric 6-Day Oscillation During the 2019 September Sudden Stratospheric Warming Event
10.1029/2020JA027809	Global-Scale Observations of the Limb and Disk Mission Implementation: 2. Observations, Data Pipeline, and Level 1 Data Products
10.1029/2020JA027823	Initial Observations by the GOLD Mission
10.1029/2020JA028199	Longitudinally Dependent Low-Latitude Ionospheric Disturbances Linked to the Antarctic Sudden Stratospheric Warming of September 2019
10.1029/2018JA026169	Method to Derive Ion Properties From Juno JADE Including Abundance Estimates for O ⁺ and S ²⁺
10.1029/2019JA027707	Microscopic, Multipoint Characterization of Foreshock Bubbles With Magnetospheric Multiscale (MMS)
10.1029/2020JA028066	Multisatellite MMS Analysis of Electron Holes in the Earth's Magnetotail: Origin, Properties, Velocity Gap, and Transverse Instability
10.1029/2018JA026005	Nine Outstanding Questions of Solar Wind Physics
10.1029/2019JA027678	On Energetic Electron Dynamics During Geomagnetic Quiet Times in Earth's Inner Radiation Belt due to Atmospheric Collisional Loss and CRAND as a Source
10.1029/2019JA026735	Particle Dynamics in the Earth's Radiation Belts: Review of Current Research and Open Questions
10.1029/2019JA027084	Radial Evolution of Coronal Mass Ejections Between MESSENGER, Venus Express, STEREO, and L1: Catalog and Analysis
10.1029/2019JA027179	Rapid Outer Radiation Belt Flux Dropouts and Fast Acceleration During the March 2015 and 2013 Storms: The Role of Ultra-Low Frequency Wave Transport From a Dynamic Outer Boundary
10.1029/2019JA027478	The Influence of Spacecraft Charging on Low-Energy Ion Measurements Made by RPC-ICA on Rosetta
10.1029/2019JA027485	The Space Environment of Io and Europa
10.1029/2019JA027261	Unprecedented Hemispheric Asymmetries During a Surprise Ionospheric Storm: A Game of Drivers
10.1029/2019JA027433	Updated Neutron-Monitor Yield Function: Bridging Between In Situ and Ground-Based Cosmic Ray Measurements
10.1029/2019JA027030	VLF Transmitters and Lightning-Generated Whistlers: 2. Diffusion of Radiation Belt Electrons
10.1029/2019JA027377	On the Motion of the Heliospheric Magnetic Structure Through the Solar Wind Plasma
10.1029/2019JB018428	Bayesian Elastic Full-Waveform Inversion Using Hamiltonian Monte Carlo
10.1029/2019JB018623	Cementation Failure Behavior of Consolidated Gas Hydrate-Bearing Sand
10.1029/2019JB019276	Forecasting Catastrophic Rupture in Brittle Rocks Using Precursory AE Time Series

10.1029/2019JB019103	Microstructure Evolution of Hydrate-Bearing Sands During Thermal Dissociation and Ensued Impacts on the Mechanical and Seepage Characteristics
10.1029/2019JB018145	On the Broadband Instrument Response of Fiber-Optic DAS Arrays
10.1029/2019JB018492	Point-Source Inversion of Small and Moderate Earthquakes From P-wave Polarities and P/S Amplitude Ratios Within a Hierarchical Bayesian Framework: Implications for the Geysers Earthquakes
10.1029/2019JB018309	Pore-Scale 3D Dynamic Modeling and Characterization of Shale Samples: Considering the Effects of Thermal Maturation
10.1029/2019JB018774	Present-Day Crustal Deformation of Continental China Derived From GPS and Its Tectonic Implications
10.1029/2019JB019052	Rupture Of Veined Granite In Polyaxial Compression: Insights From Three-Dimensional Discrete Element Method Modeling
10.1029/2019JB018582	Shear Velocity Model of Alaska Via Joint Inversion of Rayleigh Wave Ellipticity, Phase Velocities, and Receiver Functions Across the Alaska Transportable Array
10.1029/2019JB019179	Stress Perturbation From Aseismic Slip Drives the Seismic Front During Fluid Injection in a Permeable Fault
10.1029/2019JB018759	Stress Sensitivity of Fractured and Vuggy Carbonate: An X-Ray Computed Tomography Analysis
10.1029/2018JC014719	A Global Perspective on Microplastics
10.1029/2019JC015913	A Lagrangian Snow-Evolution System for Sea-Ice Applications (SnowModel-LG): Part I-Model Description
10.1029/2019JC015564	An Updated View on Water Masses on the pan-West Greenland Continental Shelf and Their Link to Proglacial Fjords
10.1029/2019JC016008	Arctic Snow Depth and Sea Ice Thickness From ICESat-2 and CryoSat-2 Freeboards: A First Examination
10.1029/2019JC015873	Simulations of Landslide Wave Generation and Propagation Using the Particle Finite Element Method
10.1029/2019JC015522	The Atlantic Meridional Overturning Circulation in High-Resolution Models
10.1029/2019JC015920	The Transpolar Drift as a Source of Riverine and Shelf-Derived Trace Elements to the Central Arctic Ocean
10.1029/2018JC014378	Understanding Arctic Ocean Circulation: A Review of Ocean Dynamics in a Changing Climate
10.1029/2019JC015764	Winter Arctic Sea Ice Thickness From ICESat-2 Freeboards
10.1029/2020JC016157	Tsunamis Generated by Submerged Landslides: Numerical Analysis of the Near-Field Wave Characteristics
10.1029/2019JD032361	An Updated Assessment of Near-Surface Temperature Change From 1850: The HadCRUT5 Data Set
10.1029/2019JD031057	Changes in Extreme Climate Events in China Under 1.5 degrees C-4 degrees C Global Warming Targets: Projections Using an Ensemble of Regional Climate Model Simulations
10.1029/2019JD032263	Development of an Updated Global Land In Situ-Based Data Set of Temperature and Precipitation Extremes: HadEX3

10.1029/2019JD030911	Fifty Years of Research on the Madden-Julian Oscillation: Recent Progress, Challenges, and Perspectives
10.1029/2019JD031767	GEOS-S2S Version 2: The GMAO High-Resolution Coupled Model and Assimilation System for Seasonal Prediction
10.1029/2019JD031496	Multiscale Variability of Meiyu and Its Prediction: A New Review
10.1029/2019JD030526	Observations of Greenhouse Gas Changes Across Summer Frontal Boundaries in the Eastern United States
10.1029/2019JD031919	Predicting the Downward and Surface Influence of the February 2018 and January 2019 Sudden Stratospheric Warming Events in Subseasonal to Seasonal (S2S) Models
10.1029/2020JD032579	Stratospheric Injection of Massive Smoke Plume From Canadian Boreal Fires in 2017 as Seen by DSCOVR-EPIC, CALIOP, and OMPS-LP Observations
10.1029/2019JD030922	The Impact of Cloud Processing on the Ice Nucleation Abilities of Soot Particles at Cirrus Temperatures
10.1029/2020JD033271	The Remarkably Strong Arctic Stratospheric Polar Vortex of Winter 2020: Links to Record-Breaking Arctic Oscillation and Ozone Loss
10.1029/2019JD030923	The Role of the Stratosphere in Subseasonal to Seasonal Prediction: 2. Predictability Arising From Stratosphere-Troposphere Coupling
10.1029/2020JE006485	A Broad Continuum of Aeolian Impact Ripple Morphologies on Mars is Enabled by Low Wind Dynamic Pressures
10.1029/2019JE006307	A Lacustrine Paleoenvironment Recorded at Vera Rubin Ridge, Gale Crater: Overview of the Sedimentology and Stratigraphy Observed by the Mars Science Laboratory Curiosity Rover
10.1029/2019JE006160	Climate Simulations of Early Mars With Estimated Precipitation, Runoff, and Erosion Rates
10.1029/2019JE006115	Diurnal Variations of Dust During the 2018 Global Dust Storm Observed by the Mars Climate Sounder
10.1029/2020JE006527	Evidence for a Diagenetic Origin of Vera Rubin Ridge, Gale Crater, Mars: Summary and Synthesis of Curiosity's Exploration Campaign
10.1029/2020JE006475	Global Patterns of Recent Mass Movement on Asteroid (101955) Bennu
10.1029/2019JE006230	Grain Size Variations in the Murray Formation: Stratigraphic Evidence for Changing Depositional Environments in Gale Crater, Mars
10.1029/2019JE006299	Iron Mobility During Diagenesis at Vera Rubin Ridge, Gale Crater, Mars
10.1029/2019JE006111	Martian Year 34 Column Dust Climatology from Mars Climate Sounder Observations: Reconstructed Maps and Model Simulations
10.1029/2020JE006446	Megaripple Migration on Mars
10.1029/2019JE006306	Mineralogy of Vera Rubin Ridge From the Mars Science Laboratory CheMin Instrument
10.1029/2019JE006011	Olivine-Carbonate Mineralogy of the Jezero Crater Region
10.1029/2019JE006278	Pressure Effects on the SEIS-InSight Instrument, Improvement of Seismic Records, and Characterization of Long Period Atmospheric Waves From Ground Displacements

10.1029/2019JE006250	Strong Variability of Martian Water Ice Clouds During Dust Storms Revealed From ExoMars Trace Gas Orbiter/NOMAD
10.1029/2020JE006387	Subsurface Structure at the InSight Landing Site From Compliance Measurements by Seismic and Meteorological Experiments
10.1029/2019JE006320	The Chemostratigraphy of the Murray Formation and Role of Diagenesis at Vera Rubin Ridge in Gale Crater, Mars, as Observed by the ChemCam Instrument
10.1029/2019JE005960	The Physics of Changing Tectonic Regimes: Implications for the Temporal Evolution of Mantle Convection and the Thermal History of Venus
10.1029/2019JE006325	Thermal Fatigue as a Driving Mechanism for Activity on Asteroid Bennu
10.1029/2019JE006276	Venusian Habitable Climate Scenarios: Modeling Venus Through Time and Applications to Slowly Rotating Venus-Like Exoplanets
10.1029/2019JF005509	A Mechanistic Model for Lateral Erosion of Bedrock Channel Banks by Bedload Particle Impacts
10.1029/2019JF005141	Applications of SAR Interferometric Coherence Time Series: Spatiotemporal Dynamics of Geomorphic Transitions in the South-Central Andes
10.1029/2019JF005330	Catchment-Scale Characterization of Intermittent Stream Infiltration; a Geophysics Approach
10.1029/2019JF005418	Could the Last Interglacial Constrain Projections of Future Antarctic Ice Mass Loss and Sea-Level Rise?
10.1029/2020JF005627	Icequake Source Mechanisms for Studying Glacial Sliding
10.1029/2019JF005513	Physical Interpretation of Rainfall Thresholds or Runoff-Generated Debris Flows
10.1029/2019JF005250	Arctic River Delta Morphologic Variability and Implications for Riverine Fluxes to the Coast
10.1029/2018JF004963	Inverting Topography for Landscape Evolution Model Process Representation: 2. Calibration and Validation
10.1029/2019JF005316	Influence of Floods, Tides, and Vegetation on Sediment Retention in Wax Lake Delta, Louisiana, USA
10.1029/2019JF005287	Inverting Topography for Landscape Evolution Model Process Representation: 3. Determining Parameter Ranges for Select Mature Geomorphic Transport Laws and Connecting Changes in Fluvial Erodibility to Changes in Climate
10.1029/2019JF005200	Salt Marsh Dynamics in a Period of Accelerated Sea Level Rise
10.1029/2019JF005369	The Influence of Frost Weathering on Debris Flow Sediment Supply in an Alpine Basin
10.1029/2019JF005256	Water Tracks Enhance Water Flow Above Permafrost in Upland Arctic Alaska Hillslopes
10.1029/2019JF005318	Present-Day Greenland Ice Sheet Climate and Surface Mass Balance in CESM2
10.1029/2019JF005201	Resilience of River Deltas in the Anthropocene
10.1029/2019JF005079	Buffered, Incomplete, and Shredded: The Challenges of Reading an Imperfect Stratigraphic Record

10.1029/2018JF004873	Future Evolution of Greenland's Marine-Terminating Outlet Glaciers
10.1029/2019JG005528	Carbon Thaw Rate Doubles When Accounting for Subsidence in a Permafrost Warming Experiment
10.1029/2019JG005501	Long-term Impacts of Permafrost Thaw on Carbon Storage in Peatlands: Deep Losses Offset by Surficial Accumulation
10.1029/2019JG005347	Responses of Foliar Nutrient Status and Stoichiometry to Nitrogen Addition in Different Ecosystems: A Meta-analysis
10.1029/2019JG005479	Soil Biogenic Volatile Organic Compound Flux in a Mixed Hardwood Forest: Net Uptake at Warmer Temperatures and the Importance of Mycorrhizal Associations
10.1029/2019JG005620	Understanding Anthropogenic Impacts on pH and Aragonite Saturation State in Chesapeake Bay: Insights From a 30-Year Model Study
10.1029/2019JG005314	A Multiyear Gridded Data Ensemble of Surface Biogenic Carbon Fluxes for North America: Evaluation and Analysis of Results
10.1029/2019JG005145	Drought Impacts on Australian Vegetation During the Millennium Drought Measured With Multisource Spaceborne Remote Sensing
10.1029/2019JG005399	Seasonality of Organic Matter Degradation Regulates Nutrient and Metal Net Fluxes in a High Energy Sandy Beach
10.1029/2019JG005236	Selective Adsorption of Terrestrial Dissolved Organic Matter to Inorganic Surfaces Along a Boreal Inland Water Continuum
10.1029/2019JG005293	Carbon Dioxide Fluxes to the Atmosphere From Waters Within Flooded Forests in the Amazon Basin
10.1029/2019JG005161	Glacier Outflow Dissolved Organic Matter as a Window Into Seasonally Changing Carbon Sources: Leverett Glacier, Greenland
10.1029/2020JG005732	Globally Consistent Patterns of Asynchrony in Vegetation Phenology Derived From Optical, Microwave, and Fluorescence Satellite Data
10.1029/2019JG005086	Northern Hemisphere Greening in Association With Warming Permafrost
10.1029/2020JG005680	Bullet-Shaped Magnetite Biomineralization Within a Magnetotactic Deltaproteobacterium: Implications for Magnetofossil Identification
10.1029/2019JG005266	CMIP5 Models Predict Rapid and Deep Soil Warming Over the 21st Century
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