

## Key words

Authors are requested to choose key words from the list below to describe their work. The key words will be printed underneath the summary and are useful for readers and researchers. Key words should be separated by a semi-colon and listed in the order that they appear in this list. An article should contain no more than six key words.

### GEOPHYSICAL METHODS

Time series analysis  
Image processing  
Neural networks, fuzzy logic  
Numerical solutions  
Fourier analysis  
Wavelet transform  
Instability analysis  
Inverse theory  
Numerical approximations and analysis  
Persistence, memory, correlations, clustering  
Probabilistic forecasting  
Spatial analysis  
Downhole methods  
Tomography  
Interferometry  
Thermobarometry  
Fractals and multifractals  
Non-linear differential equations  
Probability distributions  
Self-organization

### GEODESY and GRAVITY

Satellite geodesy  
Reference systems  
Sea level change  
Space geodetic surveys  
Seismic cycle  
Transient deformation  
Gravity anomalies and Earth structure  
Geopotential theory  
Time variable gravity  
Earth rotation variations  
Global change from geodesy  
Lunar and planetary geodesy and gravity  
Radar interferometry  
Plate motions  
Tides and planetary waves  
Acoustic-gravity waves

### GEOMAGNETISM and ELECTROMAGNETISM

Electrical properties  
Electromagnetic theory  
Magnetotelluric  
Non-linear electromagnetics  
Archaeomagnetism  
Biogenic magnetic minerals  
Dynamo: theories and simulations  
Environmental magnetism  
Geomagnetic excursions  
Geomagnetic induction  
Ground penetrating radar  
Magnetic anomalies: modelling and interpretation  
Magnetic and electrical properties  
Magnetic fabrics and anisotropy  
Magnetic field  
Magnetic mineralogy and petrology  
Magnetostratigraphy

Palaeointensity  
Palaeomagnetic secular variation  
Palaeomagnetism applied to tectonics  
Palaeomagnetism applied to geologic processes  
Rapid time variations  
Remagnetization  
Reversals: process, time scale, magnetostratigraphy  
Rock and mineral magnetism  
Satellite magnetics  
Marine magnetics and palaeomagnetism  
Marine electromagnetics

### GENERAL SUBJECTS

Geomorphology  
Geomechanics  
Glaciology  
Hydrogeophysics  
Ionosphere/atmosphere interactions  
Ionosphere/magnetosphere interactions  
Gas and hydrate systems  
Ocean drilling  
Instrumental noise  
Hydrology  
Ultra-high pressure metamorphism  
Ultra-high temperature metamorphism  
Tsunamis  
Thermochronology  
Heat flow  
Hydrothermal systems  
Mantle processes  
Core, outer core and inner core

### COMPOSITION and PHYSICAL PROPERTIES

Microstructures  
Permeability and porosity  
Plasticity, diffusion, and creep  
Composition of the core  
Composition of the continental crust  
Composition of the oceanic crust  
Composition of the mantle  
Composition of the planets  
Creep and deformation  
Defects  
Elasticity and anelasticity  
Equations of state  
High-pressure behaviour  
Fracture and flow  
Friction  
Fault zone rheology  
Phase transitions

### SEISMOLOGY

Controlled source seismology  
Earthquake dynamics  
Earthquake ground motions  
Earthquake source observations

Broad-band seismometers  
Seismic monitoring and test-ban treaty verification  
Palaeoseismology  
Earthquake interaction, forecasting, and prediction  
Seismicity and tectonics  
Body waves  
Surface waves and free oscillations  
Interface waves  
Guided waves  
Coda waves  
Seismic anisotropy  
Seismic attenuation  
Site effects  
Seismic tomography  
Volcano seismology  
Computational seismology  
Theoretical seismology  
Statistical seismology  
Wave scattering and diffraction  
Wave propagation  
Acoustic properties  
Early warning  
Rheology and friction of fault zones

### TECTONOPHYSICS

Planetary tectonics  
Mid-ocean ridge processes  
Transform faults  
Subduction zone processes  
Intra-plate processes  
Volcanic arc processes  
Back-arc basin processes  
Cratons  
Continental margins: convergent  
Continental margins: divergent  
Continental margins: transform  
Continental neotectonics  
Continental tectonics: compressional  
Continental tectonics: extensional  
Continental tectonics: strike-slip and transform  
Sedimentary basin processes  
Oceanic hotspots and intraplate volcanism  
Oceanic plateaus and microcontinents  
Oceanic transform and fracture zone processes  
Submarine landslides  
Submarine tectonics and volcanism  
Tectonics and landscape evolution  
Tectonics and climatic interactions  
Dynamics and mechanics of faulting  
Dynamics of lithosphere and mantle  
Dynamics: convection currents, and mantle plumes  
Dynamics: gravity and tectonics  
Dynamics: seismotectonics  
Heat generation and transport

Impact phenomena  
 Hotspots  
 Large igneous provinces  
 Lithospheric flexure  
 Obduction tectonics  
 Neotectonics  
 Diapir and diapirism  
 Folds and folding  
 Fractures and faults  
 Kinematics of crustal and mantle deformation  
 High strain deformation zones  
 Crustal structure  
 Mechanics, theory, and modelling  
 Rheology: crust and lithosphere  
 Rheology: mantle

PLANETS

Planetary interiors  
 Planetary volcanism

VOLCANOLOGY

Physics of magma and magma bodies  
 Magma chamber processes  
 Magma genesis and partial melting  
 Pluton emplacement  
 Effusive volcanism  
 Mud volcanism  
 Subaqueous volcanism  
 Explosive volcanism  
 Volcaniclastic deposits  
 Volcano/climate interactions  
 Atmospheric effects (volcano)  
 Volcanic gases  
 Lava rheology and morphology  
 Magma migration and fragmentation  
 Eruption mechanisms and flow emplacement  
 Physics and chemistry of magma bodies

Calderas  
 Experimental volcanism  
 Tephrochronology  
 Remote sensing of volcanoes  
 Volcano monitoring  
 Volcanic hazards and risks

GEOGRAPHIC LOCATION

Africa  
 Antarctica  
 Arctic region  
 Asia  
 Atlantic Ocean  
 Australia  
 Europe  
 Indian Ocean  
 New Zealand  
 North America  
 Pacific Ocean  
 South America