

Malcolm Sambridge

List of Publications by Year in descending order

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146
papers

13,722
citations

29994

54
h-index

21474

114
g-index

149
all docs

149
docs citations

149
times ranked

10478
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Upscaling and downscaling Monte Carlo ensembles with generative models. <i>Geophysical Journal International</i> , 2022, 230, 916-931. | 1.0 | 2 |
| 2 | Geophysical inversion and optimal transport. <i>Geophysical Journal International</i> , 2022, 231, 172-198. | 1.0 | 14 |
| 3 | Evidence for the Innermost Inner Core: Robust Parameter Search for Radially Varying Anisotropy Using the Neighborhood Algorithm. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, . | 1.4 | 18 |
| 4 | Small-scale heterogeneity in the lowermost mantle beneath Alaska and northern Pacific revealed from shear-wave triplications. <i>Earth and Planetary Science Letters</i> , 2021, 559, 116768. | 1.8 | 4 |
| 5 | Lowermost Mantle Shearâ€Velocity Structure From Hierarchical Transâ€Dimensional Bayesian Tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021557. | 1.4 | 5 |
| 6 | Inverse Theory, Monte Carlo Method. <i>Encyclopedia of Earth Sciences Series</i> , 2021, , 821-827. | 0.1 | 0 |
| 7 | Gaussian process modelsâ€I. A framework for probabilistic continuous inverse theory. <i>Geophysical Journal International</i> , 2020, 220, 1632-1647. | 1.0 | 26 |
| 8 | National COVID numbers â€ Benfordâ€™s law looks for errors. <i>Nature</i> , 2020, 581, 384-384. | 13.7 | 27 |
| 9 | Inverse Theory, Monte Carlo Method. <i>Encyclopedia of Earth Sciences Series</i> , 2020, , 1-7. | 0.1 | 0 |
| 10 | Hydrogeological Bayesian Hypothesis Testing through Trans-Dimensional Sampling of a Stochastic Water Balance Model. <i>Water (Switzerland)</i> , 2019, 11, 1463. | 1.2 | 9 |
| 11 | An Adjoint Technique for Estimation of Interstation Phase and Group Dispersion from Ambient Noise Cross Correlations. <i>Bulletin of the Seismological Society of America</i> , 2019, 109, 1716-1728. | 1.1 | 6 |
| 12 | Transdimensional Bayesian Attenuation Tomography of the Upper Inner Core. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 1929-1943. | 1.4 | 9 |
| 13 | Efficient Bayesian uncertainty estimation in linear finite fault inversion with positivity constraints by employing a log-normal prior. <i>Geophysical Journal International</i> , 2019, 217, 469-484. | 1.0 | 12 |
| 14 | AusArray: Toward updatable, high-resolution seismic velocity models of the Australian lithosphere. <i>ASEG Extended Abstracts</i> , 2019, 2019, 1-4. | 0.1 | 0 |
| 15 | Transâ€Dimensional Surface Reconstruction With Different Classes of Parameterization. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 505-529. | 1.0 | 35 |
| 16 | Earth's Correlation Wavefield: Late Coda Correlation. <i>Geophysical Research Letters</i> , 2018, 45, 3035-3042. | 1.5 | 48 |
| 17 | Trans-dimensional Bayesian inversion of airborne electromagnetic data for 2D conductivity profiles. <i>Exploration Geophysics</i> , 2018, 49, 134-147. | 0.5 | 25 |
| 18 | Australian mean land-surface temperature. <i>Geothermics</i> , 2018, 72, 156-162. | 1.5 | 7 |

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|----|---|-----|-----------|
| 19 | The inverse problem of unpolarized infrared spectroscopy of geological materials: Estimation from noisy random sampling of a quadratic form. <i>American Mineralogist</i> , 2018, 103, 1176-1184. | 0.9 | 4 |
| 20 | A statistical fracture model for Antarctic ice shelves and glaciers. <i>Cryosphere</i> , 2018, 12, 3187-3213. | 1.5 | 9 |
| 21 | Multitechnique Assessment of the Interannual to Multidecadal Variability in Steric Sea Levels: A Comparative Analysis of Climate Mode Fingerprints. <i>Journal of Climate</i> , 2018, 31, 7583-7597. | 1.2 | 6 |
| 22 | Optimal regularization for a class of linear inverse problem. <i>Geophysical Journal International</i> , 2018, 215, 1003-1021. | 1.0 | 18 |
| 23 | Attenuation tomography of the upper inner core. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 3008-3032. | 1.4 | 20 |
| 24 | Tsunami source uncertainty estimation: The 2011 Japan tsunami. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 4483-4505. | 1.4 | 37 |
| 25 | Reconstructing time series and their uncertainty from observations with universal noise. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 4990-5012. | 1.4 | 5 |
| 26 | Taming uncertainty in geophysical inversion. <i>ASEG Extended Abstracts</i> , 2016, 2016, 1-5. | 0.1 | 0 |
| 27 | Using Benford's law to investigate Natural Hazard dataset homogeneity. <i>Scientific Reports</i> , 2015, 5, 12046. | 1.6 | 18 |
| 28 | Geophysical imaging using trans-dimensional trees. <i>Geophysical Journal International</i> , 2015, 203, 972-1000. | 1.0 | 59 |
| 29 | On the relationship between volcanic hotspot locations, the reconstructed eruption sites of large igneous provinces and deep mantle seismic structure. <i>Earth and Planetary Science Letters</i> , 2015, 411, 121-130. | 1.8 | 71 |
| 30 | REDBACK: Open-source software for efficient noise-reduction in plate kinematic reconstructions. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 1663-1670. | 1.0 | 29 |
| 31 | The Australian Seismometers in Schools Network: Education, Outreach, Research, and Monitoring. <i>Seismological Research Letters</i> , 2014, 85, 1063-1068. | 0.8 | 20 |
| 32 | A Parallel Tempering algorithm for probabilistic sampling and multimodal optimization. <i>Geophysical Journal International</i> , 2014, 196, 357-374. | 1.0 | 189 |
| 33 | Trans-dimensional finite-fault inversion. <i>Geophysical Journal International</i> , 2014, 199, 735-751. | 1.0 | 77 |
| 34 | Sea level and global ice volumes from the Last Glacial Maximum to the Holocene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15296-15303. | 3.3 | 1,590 |
| 35 | Noise Estimation of Remote Sensing Reflectance Using a Segmentation Approach Suitable for Optically Shallow Waters. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 7504-7512. | 2.7 | 6 |
| 36 | Laser ablation U-series analysis of fossil bones and teeth. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014, 416, 150-167. | 1.0 | 93 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Seismic Tomography and the Assessment of Uncertainty. <i>Advances in Geophysics</i> , 2014, , 1-76. | 1.1 | 111 |
| 38 | Is there a link between geomagnetic reversal frequency and paleointensity? A Bayesian approach. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 5290-5304. | 1.4 | 21 |
| 39 | Bayesian noise-reduction in Arabia/Somalia and Nubia/Arabia finite rotations since $\sim 1/4$ 20 Ma: Implications for Nubia/Somalia relative motion. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 845-854. | 1.0 | 26 |
| 40 | Relocating a Cluster of Earthquakes Using a Single Seismic Station. <i>Bulletin of the Seismological Society of America</i> , 2013, 103, 3057-3072. | 1.1 | 14 |
| 41 | On the nature of the P-wave velocity gradient in the inner core beneath Central America. <i>Journal of Earth Science (Wuhan, China)</i> , 2013, 24, 699-705. | 1.1 | 4 |
| 42 | Slow-downs and speed-ups of India-Eurasia convergence since $\sim 1/4$ 20 Ma: Data-noise, uncertainties and dynamic implications. <i>Earth and Planetary Science Letters</i> , 2013, 367, 146-156. | 1.8 | 28 |
| 43 | The shuffling rotation of the Earth's inner core revealed by earthquake doublets. <i>Nature Geoscience</i> , 2013, 6, 497-502. | 5.4 | 68 |
| 44 | Transdimensional inference in the geosciences. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20110547. | 1.6 | 121 |
| 45 | An objective rationale for the choice of regularisation parameter with application to global multiple-frequency ℓ_1 - ℓ_2 -wave tomography. <i>Solid Earth</i> , 2013, 4, 357-371. | 1.2 | 17 |
| 46 | Assessing uncertainty in geophysical problems - Introduction. <i>Geophysics</i> , 2013, 78, WB1-WB2. | 1.4 | 3 |
| 47 | Global P wave tomography of Earth's lowermost mantle from partition modeling. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 5467-5486. | 1.4 | 30 |
| 48 | U-series dating of bone in an open system: The diffusion-adsorption-decay model. <i>Quaternary Geochronology</i> , 2012, 9, 42-53. | 0.6 | 49 |
| 49 | Probabilistic surface reconstruction from multiple data sets: An example for the Australian Moho. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 53 |
| 50 | Reconstructing plate-motion changes in the presence of finite-rotations noise. <i>Nature Communications</i> , 2012, 3, 1048. | 5.8 | 46 |
| 51 | Parallel tempering for strongly nonlinear geoacoustic inversion. <i>Journal of the Acoustical Society of America</i> , 2012, 132, 3030-3040. | 0.5 | 83 |
| 52 | Transdimensional inversion of receiver functions and surface wave dispersion. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 293 |
| 53 | Transdimensional Monte Carlo Inversion of AEM Data. <i>ASEG Extended Abstracts</i> , 2012, 2012, 1-4. | 0.1 | 28 |
| 54 | Transdimensional tomography with unknown data noise. <i>Geophysical Journal International</i> , 2012, 189, 1536-1556. | 1.0 | 173 |

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|----|--|-----|-----------|
| 55 | A probabilistic approach for estimating the separation between a pair of earthquakes directly from their coda waves. <i>Journal of Geophysical Research</i> , 2011, 116, . | 3.3 | 18 |
| 56 | Inference of abrupt changes in noisy geochemical records using transdimensional changepoint models. <i>Earth and Planetary Science Letters</i> , 2011, 311, 182-194. | 1.8 | 79 |
| 57 | Innovative data inference. <i>Preview</i> , 2011, 2011, 24-29. | 0.0 | 2 |
| 58 | Seismic moment tensor inversion using a 3-D structural model: applications for the Australian region. <i>Geophysical Journal International</i> , 2011, 184, 949-964. | 1.0 | 37 |
| 59 | Inverse Theory, Monte Carlo Method. <i>Encyclopedia of Earth Sciences Series</i> , 2011, , 639-644. | 0.1 | 3 |
| 60 | Multipathing, reciprocal traveltimes fields and raylets. <i>Geophysical Journal International</i> , 2010, , . | 1.0 | 6 |
| 61 | Frequency-dependent effects on global S-wave traveltimes: wavefront-healing, scattering and attenuation. <i>Geophysical Journal International</i> , 2010, 182, 1025-1042. | 1.0 | 27 |
| 62 | New insight into Cainozoic sedimentary basins and Palaeozoic suture zones in southeast Australia from ambient noise surface wave tomography. <i>Geophysical Research Letters</i> , 2010, 37, . | 1.5 | 48 |
| 63 | Benford's law in the natural sciences. <i>Geophysical Research Letters</i> , 2010, 37, . | 1.5 | 95 |
| 64 | Silicon isotopic fractionation in marine sponges: A new model for understanding silicon isotopic variations in sponges. <i>Earth and Planetary Science Letters</i> , 2010, 292, 281-289. | 1.8 | 79 |
| 65 | Down the borehole but outside the box: innovative approaches to wireline log data interpretation. <i>ASEG Extended Abstracts</i> , 2010, 2010, 1-4. | 0.1 | 1 |
| 66 | Inference from noisy data with an unknown number of discontinuities: ideas from outside the box.. <i>ASEG Extended Abstracts</i> , 2010, 2010, 1-5. | 0.1 | 0 |
| 67 | A self-parametrizing partition model approach to tomographic inverse problems. <i>Inverse Problems</i> , 2009, 25, 055009. | 1.0 | 56 |
| 68 | Seismic tomography with the reversible jump algorithm. <i>Geophysical Journal International</i> , 2009, 178, 1411-1436. | 1.0 | 341 |
| 69 | Markov chain Monte Carlo (MCMC) sampling methods to determine optimal models, model resolution and model choice for Earth Science problems. <i>Marine and Petroleum Geology</i> , 2009, 26, 525-535. | 1.5 | 218 |
| 70 | Holistic inversion of frequency-domain airborne electromagnetic data with minimal prior information. <i>Exploration Geophysics</i> , 2009, 40, 8-16. | 0.5 | 24 |
| 71 | Seismic ray tracing and wavefront tracking in laterally heterogeneous media. <i>Advances in Geophysics</i> , 2008, 49, 203-273. | 1.1 | 90 |
| 72 | A dynamic objective function technique for generating multiple solution models in seismic tomography. <i>Geophysical Journal International</i> , 2008, 174, 295-308. | 1.0 | 23 |

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|----|--|-----|-----------|
| 73 | Quantitative absorbance spectroscopy with unpolarized light: Part II. Experimental evaluation and development of a protocol for quantitative analysis of mineral IR spectra. <i>American Mineralogist</i> , 2008, 93, 765-778. | 0.9 | 150 |
| 74 | Multiarrival wavefront tracking and its applications. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, . | 1.0 | 18 |
| 75 | Quantitative absorbance spectroscopy with unpolarized light: Part I. Physical and mathematical development. <i>American Mineralogist</i> , 2008, 93, 751-764. | 0.9 | 85 |
| 76 | Using coda wave interferometry for estimating the variation in source mechanism between double couple events. <i>Journal of Geophysical Research</i> , 2007, 112, . | 3.3 | 11 |
| 77 | Constraints on coda wave interferometry estimates of source separation: the acoustic case. <i>Exploration Geophysics</i> , 2007, 38, 189-199. | 0.5 | 8 |
| 78 | Automatic differentiation in geophysical inverse problems. <i>Geophysical Journal International</i> , 2007, 170, 1-8. | 1.0 | 30 |
| 79 | Efficient parallel inversion using the Neighbourhood Algorithm. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a. | 1.0 | 15 |
| 80 | How do we understand and visualize uncertainty?. <i>The Leading Edge</i> , 2006, 25, 542-546. | 0.4 | 15 |
| 81 | A holistic approach to inversion of time-domain airborne EM. <i>ASEG Extended Abstracts</i> , 2006, 2006, 1-4. | 0.1 | 4 |
| 82 | A holistic approach to inversion of frequency-domain airborne EM data. <i>Geophysics</i> , 2006, 71, G301-G312. | 1.4 | 87 |
| 83 | Phase space methods for multi-arrival wavefronts. <i>Exploration Geophysics</i> , 2006, 37, 331-339. | 0.5 | 3 |
| 84 | A practical grid-based method for tracking multiple refraction and reflection phases in three-dimensional heterogeneous media. <i>Geophysical Journal International</i> , 2006, 167, 253-270. | 1.0 | 132 |
| 85 | Trans-dimensional inverse problems, model comparison and the evidence. <i>Geophysical Journal International</i> , 2006, 167, 528-542. | 1.0 | 254 |
| 86 | Quantifying Uncertainty in Flow Functions Derived from SCAL Data. <i>Transport in Porous Media</i> , 2006, 65, 265-286. | 1.2 | 11 |
| 87 | Seismic wavefront tracking in 3D heterogeneous media: applications with multiple data classes. <i>Exploration Geophysics</i> , 2006, 37, 322-330. | 0.5 | 35 |
| 88 | Tectonic interpretation of aftershock relocations in eastern Papua New Guinea using teleseismic data and the arrival pattern method. <i>Geophysical Journal International</i> , 2005, 160, 1103-1111. | 1.0 | 7 |
| 89 | Softening a hard quadratic bound to a prior pdf " an example from geomagnetism. <i>AIP Conference Proceedings</i> , 2005, , . | 0.3 | 1 |
| 90 | The Fast Marching Method: An Effective Tool for Tomographic Imaging and Tracking Multiple Phases in Complex Layered Media. <i>Exploration Geophysics</i> , 2005, 36, 341-350. | 0.5 | 217 |

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|-----|---|-----|-----------|
| 91 | Seismic tomography with irregular meshes. Geophysical Monograph Series, 2005, , 49-65. | 0.1 | 18 |
| 92 | Multiple reflection and transmission phases in complex layered media using a multistage fast marching method. Geophysics, 2004, 69, 1338-1350. | 1.4 | 156 |
| 93 | Three-dimensional empirical traveltimes: construction and applications. Geophysical Journal International, 2004, 156, 307-328. | 1.0 | 11 |
| 94 | Constraints on earthquake epicentres independent of seismic velocity models. Geophysical Journal International, 2004, 156, 648-654. | 1.0 | 7 |
| 95 | Wave front evolution in strongly heterogeneous layered media using the fast marching method. Geophysical Journal International, 2004, 156, 631-647. | 1.0 | 334 |
| 96 | Prediction under uncertainty in reservoir modeling. Journal of Petroleum Science and Engineering, 2004, 44, 143-153. | 2.1 | 57 |
| 97 | Tomoeye: A Matlab package for visualization of three-dimensional tomographic models. Geochemistry, Geophysics, Geosystems, 2004, 5, n/a-n/a. | 1.0 | 2 |
| 98 | Inversion of massive surface wave data sets: Model construction and resolution assessment. Journal of Geophysical Research, 2004, 109, . | 3.3 | 85 |
| 99 | The Impact of Uncertain Centrifuge Capillary Pressure on Reservoir Simulation. SIAM Journal of Scientific Computing, 2004, 26, 537-557. | 1.3 | 7 |
| 100 | Irregular interface parametrization in 3-D wide-angle seismic traveltime tomography. Geophysical Journal International, 2003, 155, 79-92. | 1.0 | 24 |
| 101 | Improved inversion for seismic structure using transformed,S-wavevector receiver functions: Removing the effect of the free surface. Geophysical Research Letters, 2003, 30, . | 1.5 | 56 |
| 102 | Adaptive whole Earth tomography. Geochemistry, Geophysics, Geosystems, 2003, 4, . | 1.0 | 69 |
| 103 | SEISMIC TRAVELTIME TOMOGRAPHY OF THE CRUST AND LITHOSPHERE. Advances in Geophysics, 2003, 46, 81-198. | 1.1 | 156 |
| 104 | GEOPHYSICS: An Ensemble View of Earth's Inner Core. Science, 2003, 299, 529-530. | 6.0 | 7 |
| 105 | 85.15 Nonlinear inversion by direct search using the neighbourhood algorithm. International Geophysics, 2003, 81, 1635-1637. | 0.6 | 4 |
| 106 | Signal Parameter Estimation for Sparse Arrays. Bulletin of the Seismological Society of America, 2003, 93, 1765-1772. | 1.1 | 11 |
| 107 | Constraints on theSwave velocity structure in a continental shield from surface wave data: Comparing linearized least squares inversion and the direct search Neighbourhood Algorithm. Journal of Geophysical Research, 2002, 107, ESE 4-1. | 3.3 | 33 |
| 108 | Monte Carlo analysis of inverse problems. Inverse Problems, 2002, 18, R29-R54. | 1.0 | 261 |

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|-----|---|-----|-----------|
| 109 | Hypocenter location by pattern recognition. <i>Journal of Geophysical Research</i> , 2002, 107, ESE 5-1. | 3.3 | 8 |
| 110 | Monte Carlo methods in geophysical inverse problems. <i>Reviews of Geophysics</i> , 2002, 40, 3-1. | 9.0 | 662 |
| 111 | Finding acceptable models in nonlinear inverse problems using a neighbourhood algorithm. <i>Inverse Problems</i> , 2001, 17, 387-403. | 1.0 | 78 |
| 112 | Seismic Event Location: Nonlinear Inversion Using a Neighbourhood Algorithm. , 2001, 158, 241-257. | | 83 |
| 113 | A COMPARATIVE STUDY OF EXPLICIT DIFFERENTIAL OPERATORS ON ARBITRARY GRIDS. <i>Journal of Computational Acoustics</i> , 2001, 09, 1111-1125. | 1.0 | 13 |
| 114 | Source Depth and Mechanism Inversion at Teleseismic Distances Using a Neighborhood Algorithm. <i>Bulletin of the Seismological Society of America</i> , 2000, 90, 1369-1383. | 1.1 | 21 |
| 115 | On entropy and clustering in earthquake hypocentre distributions. <i>Geophysical Journal International</i> , 2000, 142, 37-51. | 1.0 | 40 |
| 116 | Seismic Source characterization using a neighbourhood algorithm. <i>Geophysical Research Letters</i> , 2000, 27, 3401-3404. | 1.5 | 45 |
| 117 | Geophysical inversion with a neighbourhood algorithm-I. Searching a parameter space. <i>Geophysical Journal International</i> , 1999, 138, 479-494. | 1.0 | 1,219 |
| 118 | Geophysical inversion with a neighbourhood algorithm-II. Appraising the ensemble. <i>Geophysical Journal International</i> , 1999, 138, 727-746. | 1.0 | 676 |
| 119 | Inversion for multiple parameter classes. <i>Geophysical Journal International</i> , 1998, 135, 304-306. | 1.0 | 12 |
| 120 | Exploring multidimensional landscapes without a map. <i>Inverse Problems</i> , 1998, 14, 427-440. | 1.0 | 77 |
| 121 | A regionalized upper mantle (RUM) seismic model. <i>Journal of Geophysical Research</i> , 1998, 103, 7121-7136. | 3.3 | 384 |
| 122 | Tomographic systems of equations with irregular cells. <i>Journal of Geophysical Research</i> , 1998, 103, 773-781. | 3.3 | 82 |
| 123 | Propagating errors in decay equations: Examples from the $Re^{187}Os$ isotopic system. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 3019-3024. | 1.6 | 46 |
| 124 | Modelling landscape evolution on geological time scales: a new method based on irregular spatial discretization. <i>Basin Research</i> , 1997, 9, 27-52. | 1.3 | 349 |
| 125 | Genetic algorithm inversion for receiver functions with application to crust and uppermost mantle structure beneath eastern Australia. <i>Geophysical Research Letters</i> , 1996, 23, 1829-1832. | 1.5 | 182 |
| 126 | Geophysical parametrization and interpolation of irregular data using natural neighbours. <i>Geophysical Journal International</i> , 1995, 122, 837-857. | 1.0 | 318 |

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|-----|---|------|-----------|
| 127 | A numerical method for solving partial differential equations on highly irregular evolving grids. <i>Nature</i> , 1995, 376, 655-660. | 13.7 | 245 |
| 128 | Numerical ages of volcanic rocks and the earliest fauna1 zone within the Late Precambrian of east Poland. <i>Journal of the Geological Society</i> , 1995, 152, 599-611. | 0.9 | 116 |
| 129 | Genetic algorithms: A powerful tool for large-scale nonlinear optimization problems. <i>Computers and Geosciences</i> , 1994, 20, 1229-1236. | 2.0 | 152 |
| 130 | Hypocentre location: genetic algorithms incorporating problem-specific information. <i>Geophysical Journal International</i> , 1994, 118, 693-706. | 1.0 | 82 |
| 131 | Reply [to "Comment on "The ambiguity in ray perturbation theory" by Roel Snieder and Malcolm Sambridge]. <i>Journal of Geophysical Research</i> , 1994, 99, 21969-21970. | 3.3 | 0 |
| 132 | Dynamical Lagrangian Remeshing (DLR): A new algorithm for solving large strain deformation problems and its application to fault-propagation folding. <i>Earth and Planetary Science Letters</i> , 1994, 124, 211-220. | 1.8 | 50 |
| 133 | Mixture modeling of multi-component data sets with application to ion-probe zircon ages. <i>Earth and Planetary Science Letters</i> , 1994, 128, 373-390. | 1.8 | 477 |
| 134 | The applicability of ray perturbation theory to mantle tomography. <i>Geophysical Research Letters</i> , 1993, 20, 73-76. | 1.5 | 7 |
| 135 | The ambiguity in ray perturbation theory. <i>Journal of Geophysical Research</i> , 1993, 98, 22021-22034. | 3.3 | 24 |
| 136 | Earthquake location " genetic algorithms for teleseisms. <i>Physics of the Earth and Planetary Interiors</i> , 1992, 75, 103-110. | 0.7 | 73 |
| 137 | The resolution of past heat flow in sedimentary basins from non-linear inversion of geochemical data: the smoothest model approach, with synthetic examples. <i>Geophysical Journal International</i> , 1992, 109, 78-95. | 1.0 | 25 |
| 138 | Ray perturbation theory for traveltimes and ray paths in 3-D heterogeneous media. <i>Geophysical Journal International</i> , 1992, 109, 294-322. | 1.0 | 81 |
| 139 | Genetic algorithms in seismic waveform inversion. <i>Geophysical Journal International</i> , 1992, 109, 323-342. | 1.0 | 259 |
| 140 | Genetic algorithms: An evolution from Monte Carlo Methods for strongly non-linear geophysical optimization problems. <i>Geophysical Research Letters</i> , 1991, 18, 2177-2180. | 1.5 | 70 |
| 141 | AN ALTERNATIVE STRATEGY FOR NON-LINEAR INVERSION OF SEISMIC WAVEFORMS1. <i>Geophysical Prospecting</i> , 1991, 39, 723-736. | 1.0 | 41 |
| 142 | Boundary value ray tracing in a heterogeneous medium: a simple and versatile algorithm. <i>Geophysical Journal International</i> , 1990, 101, 157-168. | 1.0 | 59 |
| 143 | Non-linear arrival time inversion: constraining velocity anomalies by seeking smooth models in 3-D. <i>Geophysical Journal International</i> , 1990, 102, 653-677. | 1.0 | 100 |
| 144 | Subspace methods for large inverse problems with multiple parameter classes. <i>Geophysical Journal International</i> , 1988, 94, 237-247. | 1.0 | 239 |

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|-----|---|-----|-----------|
| 145 | A novel method of hypocentre location. Geophysical Journal International, 1986, 87, 679-697. | 1.0 | 125 |
| 146 | Gaussian process modelsâ€™II. Lessons for discrete inversion. Geophysical Journal International, 0, , . | 1.0 | 7 |