

# Matthias Holschneider

## List of Publications by Year in descending order

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148  
papers

4,201  
citations

126858

33  
h-index

133188

59  
g-index

153  
all docs

153  
docs citations

153  
times ranked

2947  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Bayesian inference about Plio-Pleistocene climate transitions in Africa. <i>Quaternary Science Reviews</i> , 2022, 277, 107287.  | 1.4 | 4         |
| 2  | ArchKalmag14k: A Kalman-Filter Based Global Geomagnetic Model for the Holocene. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .   | 1.4 | 12        |
| 3  | GP-ETAS: semiparametric Bayesian inference for the spatio-temporal epidemic type aftershock sequence model. <i>Statistics and Computing</i> , 2022, 32, 1.                                 | 0.8 | 7         |
| 4  | Evaluation of candidate models for the 13th generation International Geomagnetic Reference Field. <i>Earth, Planets and Space</i> , 2021, 73, .  | 0.9 | 33        |
| 5  | International Geomagnetic Reference Field: the thirteenth generation. <i>Earth, Planets and Space</i> , 2021, 73, .  | 0.9 | 319       |
| 6  | Correlation Based Time Evolution of the Archeomagnetic Field. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021548.  | 1.4 | 2         |
| 7  | Analysis of protrusion dynamics in amoeboid cell motility by means of regularized contour flows. <i>PLoS Computational Biology</i> , 2021, 17, e1009268.                                   | 1.5 | 6         |
| 8  | Correlation based snapshot models of the archeomagnetic field. <i>Geophysical Journal International</i> , 2020, 223, 648-665.  | 1.0 | 7         |
| 9  | Is Coulomb Stress the Best Choice for Aftershock Forecasting?. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB019553.   | 1.4 | 10        |
| 10 | Modeling cell crawling strategies with a bistable model: From amoeboid to fan-shaped cell motion. <i>Physica D: Nonlinear Phenomena</i> , 2020, 412, 132591.                               | 1.3 | 17        |
| 11 | Sequential modelling of the Earth's core magnetic field. <i>Earth, Planets and Space</i> , 2020, 72, .   | 0.9 | 28        |
| 12 | The Kalmag model as a candidate for IGRF-13. <i>Earth, Planets and Space</i> , 2020, 72, .   | 0.9 | 28        |
| 13 | Sequential assimilation of geomagnetic observations: perspectives for the reconstruction and prediction of core dynamics. <i>Geophysical Journal International</i> , 2019, 217, 1434-1450. | 1.0 | 13        |
| 14 | Modeling of the Ionospheric Current System and Calculating Its Contribution to the Earth's Magnetic Field. <i>Astrophysics and Space Science Library</i> , 2018, , 263-292.                | 1.0 | 2         |
| 15 | On the frequency spectra of the core magnetic field Gauss coefficients. <i>Physics of the Earth and Planetary Interiors</i> , 2018, 276, 145-158.  | 0.7 | 27        |
| 16 | Multiple Change-Point Detection in Spatiotemporal Seismicity Data. <i>Bulletin of the Seismological Society of America</i> , 2018, 108, 1147-1159.   | 1.1 | 9         |
| 17 | Modeling and Predicting the Short-Term Evolution of the Geomagnetic Field. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 4539-4560.                                     | 1.4 | 33        |
| 18 | Calculation of Confidence Intervals for the Maximum Magnitude of Earthquakes in Different Seismotectonic Zones of Iran. <i>Pure and Applied Geophysics</i> , 2017, 174, 763-777.           | 0.8 | 5         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Interpolation in reproducing kernel Hilbert spaces based on random subdivision schemes. Journal of Computational and Applied Mathematics, 2017, 311, 342-353.   | 1.1 | 1         |
| 20 | Correlation-based modeling and separation of geomagnetic field components. Journal of Geophysical Research: Solid Earth, 2016, 121, 3142-3160.  | 1.4 | 24        |
| 21 | The flow at the Earth's core-mantle boundary under weak prior constraints. Journal of Geophysical Research: Solid Earth, 2016, 121, 1343-1364.  | 1.4 | 19        |
| 22 | The Maximum Possible and the Maximum Expected Earthquake Magnitude for Production-Induced Earthquakes at the Gas Field in Groningen, The Netherlands. Bulletin of the Seismological Society of America, 2016, 106, 2917-2921. | 1.1 | 35        |
| 23 | Enhanced DySEM imaging of cantilever motion using artificial structures patterned by focused ion beam techniques. Journal of Micromechanics and Microengineering, 2016, 26, 035010.   | 1.5 | 1         |
| 24 | The Earthquake History in a Fault Zone Tells Us Almost Nothing about $m_{max}$ . Seismological Research Letters, 2016, 87, 132-137.   | 0.8 | 15        |
| 25 | Discovery of starspots on Vega. Astronomy and Astrophysics, 2015, 577, A64.   | 2.1 | 29        |
| 26 | Smoothing Spline ANOVA Decomposition of Arbitrary Splines: An Application to Eye Movements in Reading. PLoS ONE, 2015, 10, e0119165.  | 1.1 | 6         |
| 27 | Synchronization of muscular oscillations between two subjects during isometric interaction. European Journal of Translational Myology, 2014, 24, .  | 0.8 | 11        |
| 28 | Quantifying the degree of persistence in random amoeboid motion based on the Hurst exponent of fractional Brownian motion. Physical Review E, 2014, 90, 042703.   | 0.8 | 19        |
| 29 | The Largest Expected Earthquake Magnitudes in Japan: The Statistical Perspective. Bulletin of the Seismological Society of America, 2014, 104, 769-779.   | 1.1 | 16        |
| 30 | Can we test for the maximum possible earthquake magnitude?. Journal of Geophysical Research: Solid Earth, 2014, 119, 2019-2028.   | 1.4 | 18        |
| 31 | Using MFACE as input in the UAM to specify the MIT dynamics. Journal of Geophysical Research: Space Physics, 2014, 119, 6704-6714.  | 0.8 | 5         |
| 32 | Induced Seismicity: What is the Size of the Largest Expected Earthquake?. Bulletin of the Seismological Society of America, 2014, 104, 3153-3158.   | 1.1 | 3         |
| 33 | Combining earthquake forecasts using differential probability gains. Earth, Planets and Space, 2014, 66, .  | 0.9 | 43        |
| 34 | Bayesian inversion for the filtered flow at the Earth's core-mantle boundary. Journal of Geophysical Research: Solid Earth, 2014, 119, 2695-2720.   | 1.4 | 13        |
| 35 | Synchronization of muscular oscillations between two subjects during isometric interaction. European Journal of Translational Myology, 2014, 24, 2237.  | 0.8 | 17        |
| 36 | Fractal dynamics of geomagnetic storms. Arabian Journal of Geosciences, 2013, 6, 1693-1702.   | 0.6 | 7         |

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|----|---|-----|-----------|
| 37 | The Maximum Earthquake Magnitude in a Time Horizon: Theory and Case Studies. Bulletin of the Seismological Society of America, 2013, 103, 860-875.                                  | 1.1 | 39        |
| 38 | Phase and amplitude patterns in DySEM mappings of vibrating microstructures. Nanotechnology, 2013, 24, 215701.  | 1.3 | 2         |
| 39 | Partial parameterization of orthogonal wavelet matrix filters. Journal of Computational and Applied Mathematics, 2013, 243, 113-125.  | 1.1 | 2         |
| 40 | Wavelet-based multiscale analysis of geomagnetic disturbance. Earth, Planets and Space, 2013, 65, 1525-1540.  | 0.9 | 25        |
| 41 | IRREGULAR GABOR FRAMES. Kyushu Journal of Mathematics, 2013, 67, 237-247.   | 0.2 | 2         |
| 42 | Bayesian estimation of the scaling parameter of fixational eye movements. Europhysics Letters, 2012, 100, 40003.  | 0.7 | 2         |
| 43 | Analytical and numerical analysis of imaging mechanism of dynamic scanning electron microscopy. Nanotechnology, 2012, 23, 435501.   | 1.3 | 5         |
| 44 | From Alarm-Based to Rate-Based Earthquake Forecast Models. Bulletin of the Seismological Society of America, 2012, 102, 64-72.  | 1.1 | 18        |
| 45 | Improved daily GRACE gravity field solutions using a Kalman smoother. Journal of Geodynamics, 2012, 59-60, 39-48.   | 0.7 | 62        |
| 46 | Estimation of the Hurst exponent from noisy data: a Bayesian approach. European Physical Journal B, 2012, 85, 1.  | 0.6 | 6         |
| 47 | Stress- and aftershock-constrained joint inversions for coseismic and postseismic slip applied to the 2004 M6.0 Parkfield earthquake. Journal of Geophysical Research, 2012, 117, . | 3.3 | 20        |
| 48 | Bayesian analysis of the modified Omori law. Journal of Geophysical Research, 2012, 117, .  | 3.3 | 48        |
| 49 | Wavelet-based directional analysis of the gravity field: evidence for large-scale undulations. Geophysical Journal International, 2012, 189, 1430-1456.                             | 1.0 | 10        |
| 50 | Flexible Dataset Combination and Modelling by Domain Decomposition Approaches. International Association of Geodesy Symposia, 2012, , 67-73.  | 0.2 | 1         |
| 51 | Bayesian Selection of Markov Models for Symbol Sequences: Application to Microsaccadic Eye Movements. PLoS ONE, 2012, 7, e43388.  | 1.1 | 8         |
| 52 | Bayesian estimation of self-similarity exponent. Physical Review E, 2011, 84, 021109.   | 0.8 | 23        |
| 53 | Bayesian estimation of the self-similarity exponent of the Nile River fluctuation. Nonlinear Processes in Geophysics, 2011, 18, 441-446.  | 0.6 | 6         |
| 54 | Short-Term Earthquake Forecasting Using Early Aftershock Statistics. Bulletin of the Seismological Society of America, 2011, 101, 297-312.  | 1.1 | 23        |

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|----|--|-----|-----------|
| 55 | Wavelet modelling of the gravity field by domain decomposition methods: an example over Japan. <i>Geophysical Journal International</i> , 2011, 184, 203-219.                                  | 1.0 | 26        |
| 56 | Variability patterns differ between standing stock and process rates. <i>Oikos</i> , 2011, 120, 17-25.   | 1.2 | 9         |
| 57 | A multigrid solver for modeling complex interseismic stress fields. <i>Computers and Geosciences</i> , 2011, 37, 1075-1082.  | 2.0 | 1         |
| 58 | Ø³Ø·Ø·ùšù, Ø³Øù,,ùšù,, Øsù,,Øsù+Ø³Ø,Øsù... Ø¹ù,,ù% Ø·ùšØsù+ØsØ³ Øµù^Ø³ùšØ© ù...Ø³Ø-ù,,Ø© ùùš Ø·Ø±: Ø·Ø±ØsØ³Ø   |     |           |
| 59 | Detection of trend changes in time series using Bayesian inference. <i>Physical Review E</i> , 2011, 84, 021120.   | 0.8 | 11        |
| 60 | Estimation of the Maximum Possible Magnitude in the Framework of a Doubly Truncated Gutenberg-Richter Model. <i>Bulletin of the Seismological Society of America</i> , 2011, 101, 1649-1659.   | 1.1 | 62        |
| 61 | Seismicity, Critical States of: From Models to Practical Seismic Hazard Estimates <i>Space</i> , 2011, , 805-824.  |     | 1         |
| 62 | Steady-state solutions of rupture propagation in an earthquake simulator governed by rate and state dependent friction. <i>European Physical Journal: Special Topics</i> , 2010, 191, 105-115. | 1.2 | 1         |
| 63 | Recurrence of Large Earthquakes: Bayesian Inference from Catalogs in the Presence of Magnitude Uncertainties. <i>Pure and Applied Geophysics</i> , 2010, 167, 845-853.                         | 0.8 | 8         |
| 64 | Frames of Poisson wavelets on the sphere. <i>Applied and Computational Harmonic Analysis</i> , 2010, 28, 227-248.  | 1.1 | 12        |
| 65 | Error distribution in regional inversion of potential field data. <i>Geophysical Journal International</i> , 2010, , no-no.  | 1.0 | 7         |
| 66 | Quantifying focal mechanism heterogeneity for fault zones in central and southern California. <i>Geophysical Journal International</i> , 2010, 183, 433-450.                                   | 1.0 | 45        |
| 67 | Local regularity analysis of strata heterogeneities from sonic logs. <i>Nonlinear Processes in Geophysics</i> , 2010, 17, 455-466.   | 0.6 | 20        |
| 68 | The Earth's Magnetic Field at the CHAMP Satellite Epoch. <i>Advanced Technologies in Earth Sciences</i> , 2010, , 475-526.   | 0.9 | 6         |
| 69 | Local multi-polar expansions in potential field modeling. <i>Earth, Planets and Space</i> , 2009, 61, 1127-1141.   | 0.9 | 3         |
| 70 | Directional spherical multipole wavelets. <i>Journal of Mathematical Physics</i> , 2009, 50, .   | 0.5 | 9         |
| 71 | Modeling of Wave Dispersion Using Continuous Wavelet Transforms II: Wavelet-based Frequency-velocity Analysis. <i>Pure and Applied Geophysics</i> , 2008, 165, 255-270.                        | 0.8 | 12        |
| 72 | Adaptive metrics in the nearest neighbours method. <i>Physica D: Nonlinear Phenomena</i> , 2008, 237, 283-291.   | 1.3 | 21        |

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|----|--|-----|-----------|
| 73 | Geophysical wavelet library: Applications of the continuous wavelet transform to the polarization and dispersion analysis of signals. <i>Computers and Geosciences</i> , 2008, 34, 1732-1752.  | 2.0 | 23        |
| 74 | Inverse Problems and Parameter Identification in Image Processing. , 2008, , 111-151.  |     | 1         |
| 75 | Recurrent Large Earthquakes in a Fault Region: What Can Be Inferred from Small and Intermediate Events?. <i>Bulletin of the Seismological Society of America</i> , 2008, 98, 2641-2651.        | 1.1 | 13        |
| 76 | Loading rates in California inferred from aftershocks. <i>Nonlinear Processes in Geophysics</i> , 2008, 15, 245-263.   | 0.6 | 16        |
| 77 | Nonstationary Gaussian processes in wavelet domain: Synthesis, estimation, and significance testing. <i>Physical Review E</i> , 2007, 75, 016707.  | 0.8 | 152       |
| 78 | Poisson wavelets on the sphere. <i>Proceedings of SPIE</i> , 2007, , .   | 0.8 | 0         |
| 79 | Influence of multiple scattering on the resolution of an imaging system: a Cram r-Rao analysis. <i>Optics Express</i> , 2007, 15, 1340.  | 1.7 | 37        |
| 80 | Polarization analysis of a Pi2 pulsation using continuous wavelet transform. <i>Earth, Planets and Space</i> , 2007, 59, 961-970.  | 0.9 | 5         |
| 81 | What drives high flow events in the Swiss Alps? Recent developments in wavelet spectral analysis and their application to hydrology. <i>Advances in Water Resources</i> , 2007, 30, 2511-2525. | 1.7 | 106       |
| 82 | Estimating recurrence times and seismic hazard of large earthquakes on an individual fault. <i>Geophysical Journal International</i> , 2007, 170, 1300-1310.                                   | 1.0 | 29        |
| 83 | Polarization analysis in the wavelet domain based on the adaptive covariance method. <i>Geophysical Journal International</i> , 2007, 170, 667-678.  | 1.0 | 56        |
| 84 | Coseismic and post-seismic signatures of the Sumatra 2004 December and 2005 March earthquakes in GRACE satellite gravity. <i>Geophysical Journal International</i> , 2007, 171, 177-190.       | 1.0 | 103       |
| 85 | Robust detection and verification of linear relationships to generate metabolic networks using estimates of technical errors. <i>BMC Bioinformatics</i> , 2007, 8, 162.                        | 1.2 | 8         |
| 86 | Poisson Wavelets on the Sphere. <i>Journal of Fourier Analysis and Applications</i> , 2007, 13, 405-419.   | 0.5 | 52        |
| 87 | Continuous wavelet spectral analysis of climate dynamics. <i>World Scientific Lecture Notes in Complex Systems</i> , 2007, , 325-346.  | 0.1 | 0         |
| 88 | Critical states of seismicity   Implications from a physical model for the seismic cycle. <i>World Scientific Lecture Notes in Complex Systems</i> , 2007, , 371-396.                          | 0.1 | 0         |
| 89 | Dissipation at the core-mantle boundary on a small-scale topography. <i>Journal of Geophysical Research</i> , 2006, 111, .   | 3.3 | 13        |
| 90 | New insights on intraplate volcanism in French Polynesia from wavelet analysis of GRACE, CHAMP, and sea surface data. <i>Journal of Geophysical Research</i> , 2006, 111, .                    | 3.3 | 32        |

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|-----|--|-----|-----------|
| 91  | Earthquake activity related to seismic cycles in a model for a heterogeneous strike-slip fault. <i>Tectonophysics</i> , 2006, 423, 137-145.                          | 0.9 | 33        |
| 92  | Instantaneous polarization attributes based on an adaptive approximate covariance method. <i>Geophysics</i> , 2006, 71, V99-V104.                                    | 1.4 | 34        |
| 93  | Characterization of polarization attributes of seismic waves using continuous wavelet transforms. <i>Geophysics</i> , 2006, 71, V67-V77.                             | 1.4 | 50        |
| 94  | Existence and computation of optimally localized coherent states. <i>Journal of Mathematical Physics</i> , 2006, 47, 123503.   | 0.5 | 0         |
| 95  | Wavelet frames: an alternative to spherical harmonic representation of potential fields. <i>Geophysical Journal International</i> , 2005, 163, 875-899.              | 1.0 | 119       |
| 96  | Characterization of dispersive surface waves using continuous wavelet transforms. <i>Geophysical Journal International</i> , 2005, 163, 463-478.                     | 1.0 | 50        |
| 97  | Wavelet Analysis of Ellipticity, Dispersion, and Dissipation Properties of Rayleigh Waves. <i>Acoustical Physics</i> , 2005, 51, 425.                                | 0.2 | 10        |
| 98  | Instantaneous polarization attributes in the time-frequency domain and wavefield separation. <i>Geophysical Prospecting</i> , 2005, 53, 723-731.                     | 1.0 | 28        |
| 99  | Modeling of Wave Dispersion Using Continuous Wavelet Transforms. <i>Pure and Applied Geophysics</i> , 2005, 162, 843-855.  | 0.8 | 50        |
| 100 | The Role of Heterogeneities as a Tuning Parameter of Earthquake Dynamics. <i>Pure and Applied Geophysics</i> , 2005, 162, 1027-1049.                                 | 0.8 | 39        |
| 101 | Aftershocks resulting from creeping sections in a heterogeneous fault. <i>Geophysical Research Letters</i> , 2005, 32, .   | 1.5 | 35        |
| 102 | Onset of power law aftershock decay rates in southern California. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.   | 1.5 | 19        |
| 103 | Estimating polarization attributes with an adaptive covariance method in the wavelet domain. , 2005, , .   |     | 2         |
| 104 | On the Relevance of the Spatial Distribution of Events for Seismic Hazard Evaluation. <i>Natural Hazards</i> , 2004, 31, 1-19.                                       | 1.6 | 3         |
| 105 | Quasi-static and Quasi-dynamic Modeling of Earthquake Failure at Intermediate Scales. <i>Pure and Applied Geophysics</i> , 2004, 161, 2103.                          | 0.8 | 24        |
| 106 | Emergence of a band-limited power law in the aftershock decay rate of a slider-block model. <i>Geophysical Research Letters</i> , 2003, 30, .                        | 1.5 | 26        |
| 107 | From global to regional analysis of the magnetic field on the sphere using wavelet frames. <i>Physics of the Earth and Planetary Interiors</i> , 2003, 135, 107-124. | 0.7 | 112       |
| 108 | Correlation dimension of self-similar surfaces and application to Kirchhoff integrals. <i>Journal of Physics A</i> , 2003, 36, 9067-9079.                            | 1.6 | 1         |

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|-----|--|-----|-----------|
| 109 | An Interpolation Family between Gabor and Wavelet Transformations. , 2003, , 363-394.  |     | 12        |
| 110 | Temporal limits of the power law aftershock decay rate. Journal of Geophysical Research, 2002, 107, ESE 12-1-ESE 12-14.  | 3.3 | 72        |
| 111 | Deconvolution from instrumental devices and source effect in acoustic experiments. IEEE Transactions on Instrumentation and Measurement, 2002, 51, 268-276.            | 2.4 | 2         |
| 112 | Rate Matrices for Analyzing Large Families of Protein Sequences. Journal of Computational Biology, 2001, 8, 381-399.   | 0.8 | 17        |
| 113 | Two-Channel Perfect Reconstruction FIR Filter Banks over Commutative Rings. Applied and Computational Harmonic Analysis, 2000, 8, 113-121.                             | 1.1 | 11        |
| 114 | Direct simulations of the stress redistribution in the scaling organization of fracture tectonics (SOFT) model. Geophysical Journal International, 2000, 141, 115-135. | 1.0 | 19        |
| 115 | Diffusion through time-dependent media. Geophysical Journal International, 2000, 141, 299-306.   | 1.0 | 1         |
| 116 | Introduction to continuous wavelet analysis. , 2000, , 1-71.   |     | 2         |
| 117 | Approximation of nonessential spectrum of transfer operators. Nonlinearity, 1999, 12, 525-538.   | 0.6 | 18        |
| 118 | Identification of sources of potential fields with the continuous wavelet transform: Basic theory. Journal of Geophysical Research, 1999, 104, 5003-5013.              | 3.3 | 101       |
| 119 | A Weyl-Berry formula for the scattering operator associated to self-similar potentials on the line. , 1999, , 267-274.   |     | 0         |
| 120 | Wavelet analysis of the Chandler wobble. Journal of Geophysical Research, 1998, 103, 27069-27089.  | 3.3 | 54        |
| 121 | Time-dependent scattering on fractal measures. Journal of Mathematical Physics, 1998, 39, 4165-4194.   | 0.5 | 6         |
| 122 | <title>Unified view on filter banks</title>. , 1998, , .   |     | 2         |
| 123 | Wavelet analysis of potential fields. Inverse Problems, 1997, 13, 165-178.   | 1.0 | 149       |
| 124 | Some Directional Elliptic Regularity for Domains with Cusps. Wavelet Analysis and Its Applications, 1997, 6, 541-565.  | 0.2 | 0         |
| 125 | On equivalent definitions of the correlation dimension for a probability measure. Journal of Statistical Physics, 1997, 86, 707-720.                                   | 0.5 | 14        |
| 126 | Potential Scattering on Fractals in One Dimension. , 1997, , 266-279.  |     | 0         |

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|-----|--|-----|-----------|
| 127 | Continuous wavelet transforms on the sphere. <i>Journal of Mathematical Physics</i> , 1996, 37, 4156-4165.   | 0.5 | 110       |
| 128 | Large-Scale Renormalisation of Fourier Transforms of Self-Similar Measures and Self-Similarity of Riesz Measures. <i>Journal of Mathematical Analysis and Applications</i> , 1996, 200, 307-314. | 0.5 | 4         |
| 129 | Scattering on fractal measures. <i>Journal of Physics A</i> , 1996, 29, 7651-7667.   | 1.6 | 21        |
| 130 | Wavelet Analysis over Abelian Groups. <i>Applied and Computational Harmonic Analysis</i> , 1995, 2, 52-60.   | 1.1 | 20        |
| 131 | Wavelets on Discrete Fields. <i>Applied and Computational Harmonic Analysis</i> , 1994, 1, 137-146.  | 1.1 | 35        |
| 132 | Functional calculus using wavelet transforms. <i>Journal of Mathematical Physics</i> , 1994, 35, 3745-3752.  | 0.5 | 2         |
| 133 | Fractal Wavelet Dimensions and Time Evolution. <i>Wavelet Analysis and Its Applications</i> , 1994, 5, 363-381.  | 0.2 | 0         |
| 134 | General inversion formulas for wavelet transforms. <i>Journal of Mathematical Physics</i> , 1993, 34, 4190-4198.   | 0.5 | 8         |
| 135 | Localization properties of wavelet transforms. <i>Journal of Mathematical Physics</i> , 1993, 34, 3227-3244.   | 0.5 | 16        |
| 136 | Inverse Radon transforms through inverse wavelet transforms. <i>Inverse Problems</i> , 1991, 7, 853-861.   | 1.0 | 68        |
| 137 | Pointwise analysis of Riemann's ?nondifferentiable? function. <i>Inventiones Mathematicae</i> , 1991, 105, 157-175.  | 1.3 | 86        |
| 138 | Interpretation of Two-Dimensional Turbulence Energy Spectrum in Terms of Quasi-Singularity in Some Vortex Cores. <i>Europhysics Letters</i> , 1991, 15, 737-743.                                 | 0.7 | 21        |
| 139 | Wavelet analysis on the circle. <i>Journal of Mathematical Physics</i> , 1990, 31, 39-44.  | 0.5 | 28        |
| 140 | Numerical resolution of the burgers equation using the wavelet transform. <i>Lecture Notes in Physics</i> , 1990, , 369-370.   | 0.3 | 0         |
| 141 | Wavelet Transform Analysis of Invariant Measures of Some Dynamical Systems. <i>Inverse Problems and Theoretical Imaging</i> , 1990, , 182-196.   | 0.2 | 0         |
| 142 | Wavelet Transform Analysis of Invariant Measures of Some Dynamical Systems. <i>Inverse Problems and Theoretical Imaging</i> , 1989, , 182-196.   | 0.2 | 21        |
| 143 | On the wavelet transformation of fractal objects. <i>Journal of Statistical Physics</i> , 1988, 50, 963-993.   | 0.5 | 155       |
| 144 | Fractal dimensions and homeomorphic conjugacies. <i>Journal of Statistical Physics</i> , 1988, 50, 995-1020.   | 0.5 | 15        |

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|-----|--|-----|-----------|
| 145 | Wavelet Transform of Multifractals. Physical Review Letters, 1988, 61, 2281-2284.  | 2.9 | 271       |
| 146 | Crossover Effect in the $f^{\pm 1}$ Spectrum for Quasiperiodic Trajectories at the Onset of Chaos. Physical Review Letters, 1987, 58, 2007-2010. | 2.9 | 29        |
| 147 | Numerical modeling of solar wind influences on the dynamics of the high-latitude upper atmosphere. Advances in Radio Science, 0, 10, 299-312.    | 0.7 | 6         |
| 148 | Error distribution in regional modelling of the geomagnetic field. Geophysical Journal International, 0, , .                                     | 1.0 | 5         |