

Arthur J Rodgers

List of Publications by Year in descending order

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72
papers

2,048
citations

257450

24
h-index

265206

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78
all docs

78
docs citations

78
times ranked

1395
citing authors

#	ARTICLE	IF	CITATIONS
1	Conditioned Simulation of Ground-Motion Time Series at Uninstrumented Sites Using Gaussian Process Regression. <i>Bulletin of the Seismological Society of America</i> , 2022, 112, 331-347.	2.3	22
2	WUS256: An Adjoint Waveform Tomography Model of the Crust and Upper Mantle of the Western United States for Improved Waveform Simulations. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	3.4	10
3	EQSIM—A multidisciplinary framework for fault-to-structure earthquake simulations on exascale computers part I: Computational models and workflow. <i>Earthquake Spectra</i> , 2021, 37, 707-735.	3.1	47
4	EQSIM—A multidisciplinary framework for fault-to-structure earthquake simulations on exascale computers, part II: Regional simulations of building response. <i>Earthquake Spectra</i> , 2021, 37, 736-761.	3.1	24
5	Joint Bayesian Inference for Near-Surface Explosion Yield and Height of Burst. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020968.	3.4	5
6	Empirical Acoustic Source Model for Chemical Explosions in Air. <i>Bulletin of the Seismological Society of America</i> , 2021, 111, 2862-2880.	2.3	8
7	Joint Regional Waveform, First-Motion Polarity, and Surface Displacement Moment Tensor Inversion of the 3 September 2017 North Korean Nuclear Test. <i>The Seismic Record</i> , 2021, 1, 107-116.	3.1	1
8	Engineering evaluation of the EQSIM simulated ground-motion database: The San Francisco Bay Area region. <i>Earthquake Engineering and Structural Dynamics</i> , 2021, 50, 3939-3961.	4.4	7
9	Kinematic Rupture Modeling of Ground Motion from the M7 Kumamoto, Japan Earthquake. <i>Pure and Applied Geophysics</i> , 2020, 177, 2199-2221.	1.9	30
10	Regional-Scale 3D Ground-Motion Simulations of Mw 7 Earthquakes on the Hayward Fault, Northern California Resolving Frequencies 0.1–10 Hz and Including Site-Response Corrections. <i>Bulletin of the Seismological Society of America</i> , 2020, 110, 2862-2881.	2.3	31
11	Improved Parametric Models for Explosion Pressure Signals Derived From Large Datasets. <i>Seismological Research Letters</i> , 2020, 91, 1752-1762.	1.9	9
12	The Effect of Fault Geometry and Minimum Shear Wavespeed on 3D Ground-Motion Simulations for an Mw 6.5 Hayward Fault Scenario Earthquake, San Francisco Bay Area, Northern California. <i>Bulletin of the Seismological Society of America</i> , 2019, 109, 1265-1281.	2.3	13
13	Broadband (0.1–5 Hz) Fully Deterministic 3D Ground-Motion Simulations of a Magnitude 7.0 Hayward Fault Earthquake: Comparison with Empirical Ground-Motion Models and 3D Path and Site Effects from Source Normalized Intensities. <i>Seismological Research Letters</i> , 2019, 90, 1268-1284.	1.9	46
14	Local Infrasound Variability Related to In Situ Atmospheric Observation. <i>Geophysical Research Letters</i> , 2018, 45, 2954-2962.	4.0	26
15	Broadband (0.1–4 Hz) Ground Motions for a Magnitude 7.0 Hayward Fault Earthquake With Three-Dimensional Structure and Topography. <i>Geophysical Research Letters</i> , 2018, 45, 739-747.	4.0	49
16	Seismic Models for Near-Surface Explosion Yield Estimation in Alluvium and Sedimentary Rock. <i>Bulletin of the Seismological Society of America</i> , 2018, 108, 1384-1398.	2.3	9
17	Uncertainty analysis for infrasound waveform inversion: Application to explosion yield estimation. <i>Journal of the Acoustical Society of America</i> , 2018, 144, 3351-3363.	1.1	8
18	Mass, height of burst, and source-receiver distance constraints on the acoustic coda phase delay method. <i>Journal of the Acoustical Society of America</i> , 2018, 143, 2332-2337.	1.1	2

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19	Computational Seismology Workshop Trains Early-Career Scientists. <i>Eos</i> , 2018, 99, .	0.1	1
20	Influence of low-altitude meteorological conditions on local infrasound propagation investigated by 3-D full-waveform modeling. <i>Geophysical Journal International</i> , 2017, 210, 1252-1263.	2.4	26
21	Performance of Irikura Recipe Rupture Model Generator in Earthquake Ground Motion Simulations with Graves and Pitarka Hybrid Approach. <i>Pure and Applied Geophysics</i> , 2017, 174, 3537-3555.	1.9	17
22	Toward Exascale Earthquake Ground Motion Simulations for Near-Fault Engineering Analysis. <i>Computing in Science and Engineering</i> , 2017, 19, 27-37.	1.2	15
23	Waveform inversion of acoustic waves for explosion yield estimation. <i>Geophysical Research Letters</i> , 2016, 43, 6883-6890.	4.0	26
24	Analysis of Ground Motion from An Underground Chemical Explosion. <i>Bulletin of the Seismological Society of America</i> , 2015, 105, 2390-2410.	2.3	30
25	Long-Period Ground Motion in the Arabian Gulf from Earthquakes in the Zagros Mountains Thrust Belt. <i>Pure and Applied Geophysics</i> , 2015, 172, 2517-2532.	1.9	4
26	Partitioning of Seismoacoustic Energy and Estimation of Yield and Height-of-Burst/Depth-of-Burial for Near-Surface Explosions. <i>Bulletin of the Seismological Society of America</i> , 2014, 104, 608-623.	2.3	42
27	Seismic Source Characteristics of Nuclear and Chemical Explosions in Granite from Hydrodynamic Simulations. <i>Pure and Applied Geophysics</i> , 2014, 171, 507-521.	1.9	15
28	Simulation of Explosion Ground Motions Using a Hydrodynamic-to-Elastic Coupling Approach in Three Dimensions. <i>Bulletin of the Seismological Society of America</i> , 2013, 103, 1629-1639.	2.3	3
29	Improvement of seismicity parameters in the Arabian Shield and Platform using earthquake location and magnitude calibration. <i>Frontiers in Earth Sciences</i> , 2013, , 281-293.	0.1	6
30	A Regional Seismic Array of Three-Component Stations in Central Saudi Arabia. <i>Seismological Research Letters</i> , 2012, 83, 49-58.	1.9	1
31	Nuclear Test Ban Treaty Verification: Improving Test Ban Monitoring with Empirical and Model-Based Signal Processing. <i>IEEE Signal Processing Magazine</i> , 2012, 29, 57-70.	5.6	3
32	Seismic velocity structure at the southeastern margin of the Arabian Peninsula. <i>Geophysical Journal International</i> , 2011, 186, 782-792.	2.4	13
33	Joint inversion for three-dimensional <i>v_s</i> velocity mantle structure along the Tethyan margin. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	60
34	Simulation of topographic effects on seismic waves from shallow explosions near the North Korean nuclear test site with emphasis on shear wave generation. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	36
35	Ground-Motion Modeling of Hayward Fault Scenario Earthquakes, Part II: Simulation of Long-Period and Broadband Ground Motions. <i>Bulletin of the Seismological Society of America</i> , 2010, 100, 2945-2977.	2.3	76
36	The Prospect of Using Three-Dimensional Earth Models to Improve Nuclear Explosion Monitoring and Ground-motion Hazard Assessment. <i>Seismological Research Letters</i> , 2009, 80, 31-39.	1.9	4

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37	Source mechanisms of the June 2004 Tabuk earthquake sequence, Eastern Red Sea margin, Kingdom of Saudi Arabia. <i>Journal of Seismology</i> , 2009, 13, 561-576.	1.3	21
38	Broad-band Lg attenuation modelling in the Middle East. <i>Geophysical Journal International</i> , 2009, 177, 1166-1176.	2.4	67
39	Source Parameters for Moderate Earthquakes in the Zagros Mountains with Implications for the Depth Extent of Seismicity. <i>Bulletin of the Seismological Society of America</i> , 2009, 99, 2044-2049.	2.3	22
40	Improving the level of seismic hazard parameters in Saudi Arabia using earthquake location. <i>Arabian Journal of Geosciences</i> , 2008, 1, 1-15.	1.3	10
41	Crustal structure of Iraq from receiver functions and surface wave dispersion: implications for understanding the deformation history of the Arabian-Eurasian collision. <i>Geophysical Journal International</i> , 2008, 172, 1179-1187.	2.4	56
42	Ground-Motion Modeling of the 1906 San Francisco Earthquake, Part II: Ground-Motion Estimates for the 1906 Earthquake and Scenario Events. <i>Bulletin of the Seismological Society of America</i> , 2008, 98, 1012-1046.	2.3	77
43	S wave velocity structure of the Arabian Shield upper mantle from Rayleigh wave tomography. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	63
44	Seismic velocity structure and depth dependence of anisotropy in the Red Sea and Arabian shield from surface wave analysis. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	16
45	Source parameters of March 10 and September 13, 2007, United Arab Emirates earthquakes. <i>Tectonophysics</i> , 2008, 460, 237-247.	2.2	10
46	Teleseismic Travel-Time Delays in the Las Vegas Basin. <i>Bulletin of the Seismological Society of America</i> , 2008, 98, 2047-2060.	2.3	4
47	Broadband Waveform Modeling of Moderate Earthquakes in the San Francisco Bay Area and Preliminary Assessment of the USGS 3D Seismic Velocity Model. <i>Bulletin of the Seismological Society of America</i> , 2008, 98, 969-988.	2.3	44
48	Imaging ruptured lithosphere beneath the Red Sea and Arabian Peninsula. <i>Earth and Planetary Science Letters</i> , 2007, 259, 256-265.	4.4	129
49	Upper mantle structure beneath the Arabian Peninsula and northern Red Sea from teleseismic body wave tomography: Implications for the origin of Cenozoic uplift and volcanism in the Arabian Shield. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, n/a-n/a.	2.5	56
50	Seismic structure of Kuwait. <i>Geophysical Journal International</i> , 2007, 170, 299-312.	2.4	23
51	Combined plate motion and density-driven flow in the asthenosphere beneath Saudi Arabia: Evidence from shear-wave splitting and seismic anisotropy. <i>Geology</i> , 2006, 34, 869.	4.4	82
52	A multistep approach for joint modeling of surface wave dispersion and teleseismic receiver functions: Implications for lithospheric structure of the Arabian Peninsula. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	84
53	Texture of mantle lithosphere along the Dead Sea Rift: Recently imposed or inherited?. <i>Physics of the Earth and Planetary Interiors</i> , 2006, 158, 174-189.	1.9	17
54	The March 11, 2002 Masafi, United Arab Emirates earthquake: Insights into the seismotectonics of the northern Oman Mountains. <i>Tectonophysics</i> , 2006, 415, 57-64.	2.2	19

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55	Site Response in Las Vegas Valley, Nevada from NTS Explosions and Earthquake Data. Pure and Applied Geophysics, 2006, 163, 55-80.	1.9	9
56	Suborbital and Spaceborne Monitoring of Seismic Surface Waves. , 2005, , .		2
57	Applicability of 3D Modeling Techniques in Creating Single-Station Locations: A Test Case in Southern Asia. Bulletin of the Seismological Society of America, 2004, 94, 753-759.	2.3	0
58	Crustal structure of northern and southern Tibet from surface wave dispersion analysis. Journal of Geophysical Research, 2003, 108, .	3.3	96
59	A Broadband Seismic Deployment in Jordan. Seismological Research Letters, 2003, 74, 374-381.	1.9	10
60	Amplitude Corrections for Regional Seismic Discriminants. Pure and Applied Geophysics, 2002, 159, 623-650.	1.9	38
61	Seismic Discrimination of the May 11, 1998 Indian Nuclear Test with Short-period Regional Data from Station NIL (Nilore, Pakistan). Pure and Applied Geophysics, 2002, 159, 679-700.	1.9	21
62	Seismic Discrimination of the May 11, 1998 Indian Nuclear Test with Short-period Regional Data from Station NIL (Nilore, Pakistan). , 2002, , 679-700.		1
63	Upper Mantle Shear and Compressional Velocity Structure of the Central US Craton: Shear Wave Low-Velocity Zone and Anisotropy. Geophysical Research Letters, 2001, 28, 383-386.	4.0	7
64	Relative Importance of Near-, Intermediate- and Far-Field Displacement Terms in Layered Earth Synthetic Seismograms. Bulletin of the Seismological Society of America, 2000, 90, 531-536.	2.3	9
65	Lithospheric structure of the Arabian Shield and Platform from complete regional waveform modelling and surface wave group velocities. Geophysical Journal International, 1999, 138, 871-878.	2.4	98
66	Lithospheric structure of the Qiangtang Terrane, northern Tibetan Plateau, from complete regional waveform modeling: Evidence for partial melt. Journal of Geophysical Research, 1998, 103, 7137-7152.	3.3	70
67	Low crustal velocities and mantle lithospheric variations in southern Tibet from regional Pnl waveforms. Geophysical Research Letters, 1997, 24, 9-12.	4.0	35
68	The Trade-Off Between Volumetric and Topographic Structure For Seismic Traveltimes: 660 Km Topography and Mantle Structure. Geophysical Journal International, 1994, 117, 19-32.	2.4	8
69	Can the differential sensitivity of body wave, mantle wave, and normal mode data resolve the trade-off between transition zone structure and boundary topography?. Physics of the Earth and Planetary Interiors, 1994, 86, 117-146.	1.9	5
70	Inference of core-mantle boundary topography from ISCPcPandPKPtraveltimes. Geophysical Journal International, 1993, 115, 991-1011.	2.4	72
71	Kinematic Finite-Source Model for the 24 August 2014 South Napa, California, Earthquake from Joint Inversion of Seismic, GPS, and InSAR Data. Seismological Research Letters, 0, , .	1.9	29
72	Refinements to the Gravesâ€™Pitarka Kinematic Rupture Generator, Including a Dynamically Consistent Slip-Rate Function, Applied to the 2019 Mw7.1 Ridgecrest Earthquake. Bulletin of the Seismological Society of America, 0, , .	2.3	4