

# Chao-ying Bai

## List of Publications by Year in descending order

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34  
papers

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citations

1040056

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h-index

794594

19  
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34  
all docs

34  
docs citations

34  
times ranked

196  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep sounding TEM investigation method based on a modified fixed central-loop system. Journal of Applied Geophysics, 2012, 76, 23-32.	2.1	59
2	3D ray tracing using a modified shortest-path method. Geophysics, 2007, 72, T27-T36.	2.6	57
3	2-D/3-D irregular shortest-path ray tracing for multiple arrivals and its applications. Geophysical Journal International, 2010, 183, 1596-1612.	2.4	39
4	3D multi-step travel time tomography: Imaging the local, deep velocity structure of Rabaul volcano, Papua New Guinea. Physics of the Earth and Planetary Interiors, 2005, 151, 259-275.	1.9	36
5	3-D Non-linear Travel-time Tomography: Imaging High Contrast Velocity Anomalies. Pure and Applied Geophysics, 2005, 162, 2029-2049.	1.9	25
6	2-D/3-D multiply transmitted, converted and reflected arrivals in complex layered media with the modified shortest path method. Geophysical Journal International, 2009, 179, 201-214.	2.4	24
7	Extracting the Virtual Reflected Wavelet from TEM Data Based on Regularizing Method. Pure and Applied Geophysics, 2012, 169, 1269-1282.	1.9	15
8	Seismic wavefront evolution of multiply reflected, transmitted, and converted phases in 2D/3D triangular cell model. Journal of Seismology, 2011, 15, 637-652.	1.3	14
9	Ray tracing of multiple transmitted/reflected/converted waves in 2-D/3-D layered anisotropic TTI media and application to crosswell travelttime tomography. Geophysical Journal International, 2013, 195, 1068-1087.	2.4	11
10	Multiple arrival tracking within irregular triangular or tetrahedral cell model. Journal of Geophysics and Engineering, 2012, 9, 29-38.	1.4	9
11	Fast and accurate global multiphase arrival tracking: the irregular shortest-path method in a 3-D spherical earth model. Geophysical Journal International, 2013, 194, 1878-1892.	2.4	8
12	Seismic complex ray tracing in 2D/3D viscoelastic anisotropic media by a modified shortest-path method. Geophysics, 2020, 85, T331-T342.	2.6	8
13	3-D P-wave velocity structure of the crust beneath the Loess Plateau and surrounding regions of China. Tectonophysics, 2008, 460, 278-287.	2.2	6
14	Simultaneous Inversion for Velocity and Reflector Geometry Using Multi-phase Fresnel Volume Rays. Pure and Applied Geophysics, 2014, 171, 1089-1105.	1.9	6
15	Seismic wavefield simulation in 2D elastic and viscoelastic tilted transversely isotropic media: comparisons between four different kinds of finite-difference grid schemes. Journal of Geophysics and Engineering, 2013, 10, 045005.	1.4	4
16	3D Simultaneous Traveltime Inversion for Velocity Structure, Hypocenter Locations, and Reflector Geometry Using Multiple Classes of Arrivals. Pure and Applied Geophysics, 2015, 172, 2601-2620.	1.9	4
17	Multi-phase arrival tracking using tetrahedral cells within a 3D layered tilted transversely isotropic anisotropic model involving undulating topography and irregular interfaces. Journal of Geophysics and Engineering, 2018, 15, 192-206.	1.4	4
18	Multi-valued reflection arrival tracking via an extremal solution of the summed ray field. Journal of Geophysics and Engineering, 2012, 9, 549-557.	1.4	3

#	ARTICLE	IF	CITATIONS
19	Simultaneous travel time tomography for updating both velocity and reflector geometry in triangular/tetrahedral cell model. <i>Journal of Seismology</i> , 2018, 22, 559-574.	1.3	3
20	A Generalized 2.5-D Time-Domain Seismic Wave Equation to Accommodate Various Elastic Media and Boundary Conditions. <i>Pure and Applied Geophysics</i> , 2021, 178, 2999-3025.	1.9	3
21	Rapid 3-D Earthquake Location using a Hybrid Global-Local Inversion Approach. <i>Pure and Applied Geophysics</i> , 2010, 167, 1377-1387.	1.9	2
22	Seismic wavefield propagation in 2D anisotropic media: Ray theory versus wave-equation simulation. <i>Journal of Applied Geophysics</i> , 2014, 104, 163-171.	2.1	2
23	Simultaneous elastic parameter inversion in 2-D/3-D TTI medium combined later arrival times. <i>Journal of Seismology</i> , 2016, 20, 475-494.	1.3	2
24	Seismic wavefield modelling in two-phase media including undulating topography with the modified Biot/squirt model by a curvilinear-grid finite difference method. <i>Geophysical Prospecting</i> , 2020, 68, 591-614.	1.9	2
25	3D Simultaneous Traveltime Inversion for Velocity Structure, Hypocenter Locations and Reflector Geometry Using Multiple Classes of Arrivals. , 2013, , .		2
26	Multiple Ray Tracing Within 3-D Layered Media with the Shortest Path Method. <i>Chinese Journal of Geophysics</i> , 2009, 52, 1130-1138.	0.2	1
27	P- and S-wavefield simulations using both the first- and second-order separated wave equations through a high-order staggered grid finite-difference method. <i>Earthquake Science</i> , 2013, 26, 83-98.	0.9	1
28	The Effect of Ignoring Earth Curvature on Near-Regional Traveltime Tomography and Earthquake Hypocentral Determination. <i>Pure and Applied Geophysics</i> , 2017, 174, 4329-4342.	1.9	1
29	Anisotropic Crosshole+VSP Traveltime Tomography Through Triangular Cell Model with a Normalized Jacobian Matrix and Multistage Inversion Strategy. <i>Pure and Applied Geophysics</i> , 2019, 176, 235-255.	1.9	1
30	Ray Tracing Directly in a 3-D Ellipsoidal Earth Model for Multiphase Global Arrivals. <i>Pure and Applied Geophysics</i> , 2019, 176, 4431-4444.	1.9	1
31	3-D simultaneous inversion for velocity and reflector geometry using multiple classes of arrivals in a spherical coordinate frame. <i>Journal of Seismology</i> , 2014, 18, 123-135.	1.3	0
32	2D/3D multi-phase Fresnel volume rays and applications to simultaneously update both velocity model and reflector geometry. <i>Journal of Seismology</i> , 2015, 19, 607-621.	1.3	0
33	A comparative analysis of two-dimensional multi-valued ray tracing techniques. <i>Arabian Journal of Geosciences</i> , 2017, 10, 1.	1.3	0
34	3D Simultaneous Traveltime Inversion for Velocity Structure, Hypocenter Locations and Reflector Geometry Using Multiple Classes of Arrivals in a Spherical Coordinates. , 2015, , .		0