Nozomu Takeuchi

List of Publications by Year
in descending order

139 papers	4,393 citations	87843 38 h-index	138417 58 g-index
152 all docs	152 docs citations	152 times ranked	3480 citing authors

#	Article	IF	Citations
1	Cryoconite â€“ From minerals and organic matter to bioengineered sediments on glacier's surfaces. Science of the Total Environment, 2022, 807, 150874.	3.9	29
2	Global Simulation of Snow Algal Blooming by Coupling a Land Surface and Newly Developed Snow Algae Models. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	1.3	8
3	Spatial Distribution of Unique Biological Communities and Their Control Over Surface Reflectivity of the Stanley Glacier, Uganda. Frontiers in Earth Science, 2022, 10, .	0.8	2
4	Metagenomics reveals global-scale contrasts in nitrogen cycling and cyanobacterial light-harvesting mechanisms in glacier cryoconite. Microbiome, 2022, 10, 50.	4.9	10
5	Characteristics of Chemical Solutes and Mineral Dust in Ice of the Ablation Area of a Glacier in Tien Shan Mountains, Central Asia. Frontiers in Earth Science, 2022, 10, .	0.8	1
6	A hole in the nematosphere: tardigrades and rotifers dominate the cryoconite hole environment, whereas nematodes are missing. Journal of Zoology, 2021, 313, 18-36.	0.8	36
7	Bio-albedo effect on melting of glaciers and the ice sheet in the Arctic region and its modeling. Journal of the Japanese Society of Snow and Ice, 2021, 83, 51-66.	0.0	0
8	Studies on Atmosphere, Snow/Ice, and Glacial Microbes on Greenland Ice Sheet by SIGMA and relevant projects. Journal of the Japanese Society of Snow and Ice, 2021, 83, 169-191.	0.0	0
9	Review of the current polar ice sheet surface mass balance and its modelling: the 2020 summer edition. Journal of the Japanese Society of Snow and Ice, 2021, 83, 27-50.	0.0	0
10	Snow algae blooms are beneficial for microinvertebrates assemblages (Tardigrada and Rotifera) on seasonal snow patches in Japan. Scientific Reports, 2021, 11, 5973.	1.6	11
11	Spatial and Temporal Variations in Pigment and Species Compositions of Snow Algae on Mt. Tateyama in Toyama Prefecture, Japan. Frontiers in Plant Science, 2021, 12, 689119.	1.7	12
12	Physically Based Summer Temperature Reconstruction From Melt Layers in Ice Cores. Earth and Space Science, 2021, 8, e2020EA001590.	1.1	4
13	Unmasking photogranulation in decreasing glacial albedo and net autotrophic wastewater treatment. Environmental Microbiology, 2021, 23, 6391-6404.	1.8	10
14	Biological albedo reduction on ice sheets, glaciers, and snowfields. Earth-Science Reviews, 2021, 220, 103728.	4.0	30
15	Morphological and spectroscopic analysis of snow and glacier algae and their parasitic fungi on different glaciers of Svalbard. Scientific Reports, 2021, 11, 21785.	1.6	10
16	Redox stratification within cryoconite granules influences the nitrogen cycle on glaciers. FEMS Microbiology Ecology, 2020, 96, .	1.3	19
17	Influence of a Subducted Oceanic Ridge on the Distribution of Shallow VLFEs in the Nankai Trough as Revealed by Moment Tensor Inversion and Cluster Analysis. Geophysical Research Letters, 2020, 47, e2020GL087244.	1.5	11
18	Glacio-environmental aspects recorded in two shallow ice cores drilled in 1980 at accumulation area of Khumbu Glacier of Mt. Everest in Nepal Himalayas. Arctic, Antarctic, and Alpine Research, 2020, 52, 605-616.	0.4	3

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19	Contrasting Patterns of Microbial Communities in Glacier Cryoconite of Nepali Himalaya and Greenland, Arctic. Sustainability, 2020, 12, 6477.	1.6	2
20	Morphological and physicochemical diversity of snow algae from Alaska. Scientific Reports, 2020, 10, 19167.	1.6	4
21	Variation in Albedo and Its Relationship With Surface Dust at Urumqi Glacier No. 1 in Tien Shan, China. Frontiers in Earth Science, 2020, 8, .	0.8	17
22	Inversion of Longerâ€Period OBS Waveforms for P Structures in the Oceanic Lithosphere and Asthenosphere. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018810.	1.4	6
23	Artificial and natural radionuclides in cryoconite as tracers of supraglacial dynamics: Insights from the Morteratsch glacier (Swiss Alps). Catena, 2020, 191, 104577.	2.2	18
24	Physically based model of the contribution of red snow algal cells to temporal changes in albedo in northwest Greenland. Cryosphere, 2020, 14, 2087-2101.	1.5	16
25	Melting at the Edge of a Slab in the Deepest Mantle. Geophysical Research Letters, 2019, 46, 8000-8008.	1.5	13
26	Annual layer counting using pollen grains of the Grigoriev ice core from the Tien Shan Mountains, central Asia. Arctic, Antarctic, and Alpine Research, 2019, 51, 299-312.	0.4	9
27	Numerical data of probabilistic 3D lithological map of Japanese crust. Data in Brief, 2019, 26, 104497.	0.5	1
28	Sharpness of the hemispherical boundary in the inner core beneath the northern Pacific. Earth and Planetary Science Letters, 2019, 527, 115796.	1.8	5
29	Taxonomic re-examination of â€œChloromonas nivalis (Volvocales, Chlorophyceae) zygotesâ€• from Japan and description of C. muramotoi sp. nov.. PLoS ONE, 2019, 14, e0210986.	1.1	49
30	Bacterial community changes with granule size in cryoconite and their susceptibility to exogenous nutrients on NW Greenland glaciers. FEMS Microbiology Ecology, 2019, 95, .	1.3	17
31	Topography of the western Pacific LLSVP constrained by S-wave multipathing. Geophysical Journal International, 2019, 218, 190-199.	1.0	6
32	Variations in Phototroph Communities on the Ablating Bare-Ice Surface of Glaciers on BrÃ¸ggerhalvÃ¸ya, Svalbard. Frontiers in Earth Science, 2019, 7, .	0.8	10
33	Stochastic modeling of 3-D compositional distribution in the crust with Bayesian inference and application to geoneutrino observation in Japan. Physics of the Earth and Planetary Interiors, 2019, 288, 37-57.	0.7	13
34	Spatial and seasonal changes in soluble ions and chlorophyll a concentration on the surface of snow pack in Mt. Tateyama, Japan. Journal of the Japanese Society of Snow and Ice, 2019, 81, 231-247.	0.0	1
35	A Sharp Structural Boundary in Lowermost Mantle Beneath Alaska Detected by Core Phase Differential Travel Times for the Anomalous South Sandwich Islands to Alaska Path. Geophysical Research Letters, 2018, 45, 176-184.	1.5	7
36	Demographic analysis of cyanobacteria based on the mutation rates estimated from an ancient ice core. Heredity, 2018, 120, 562-573.	1.2	19

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37	High Mitochondrial Diversity in a New Water Bear Species (Tardigrada: Eutardigrada) from Mountain Glaciers in Central Asia, with the Erection of a New Genus<i>Cryoconicus</i>. Annales Zoologici, 2018, 68, 179-201.	0.1	51
38	Influence of Seasonal Pumping on Groundwater Sources and Flow System, Nagaoka Plain, Japan. Ground Water, 2018, 56, 470-481.	0.7	1
39	Temporal variations of cryoconite holes and cryoconite coverage on the ablation ice surface of Qaanaaq Glacier in northwest Greenland. Annals of Glaciology, 2018, 59, 21-30.	2.8	40
40	Spatial variations of Srâ€“Nd isotopic ratios, mineralogical and elemental compositions of cryoconite in an Alaskan glacier. Annals of Glaciology, 2018, 59, 147-158.	2.8	0
41	Metagenomic analyses highlight the symbiotic association between the glacier stonefly <i>Andiperla willinki</i> and its bacterial gut community. Environmental Microbiology, 2018, 20, 4170-4183.	1.8	25
42	Bipolar dispersal of red-snow algae. Nature Communications, 2018, 9, 3094.	5.8	75
43	Observations and modelling of algal growth on a snowpack in north-western Greenland. Cryosphere, 2018, 12, 2147-2158.	1.5	23
44	Surface mass balance on Glacier No. 31 in the Suntarâ€“Khayata Range, eastern Siberia, from 1951 to 2014. Journal of Mountain Science, 2017, 14, 501-512.	0.8	4
45	Biogeography of cryoconite forming cyanobacteria on polar and Asian glaciers. Journal of Biogeography, 2017, 44, 2849-2861.	1.4	46
46	A fluidâ€rich layer along the Nankai trough megathrust fault off the Kii Peninsula inferred from receiver function inversion. Journal of Geophysical Research: Solid Earth, 2017, 122, 6524-6537.	1.4	13
47	Heavy metal-polluted aerosols collected at a rural site, Northwest China. Journal of Earth Science (Wuhan, China), 2017, 28, 535-544.	1.1	12
48	Determination of intrinsic attenuation in the oceanic lithosphere-asthenosphere system. Science, 2017, 358, 1593-1596.	6.0	24
49	A Firn Densification Process in the High Accumulation Dome of Southeastern Greenland. Arctic, Antarctic, and Alpine Research, 2017, 49, 13-27.	0.4	17
50	Bacterial Microbiota Associated with the Glacier Ice Worm Is Dominated by Both Worm-Specific and Glacier-Derived Facultative Lineages. Microbes and Environments, 2017, 32, 32-39.	0.7	12
51	Meteorological and glaciological observations at Suntar-Khayata Glacier No. 31, east Siberia, from 2012-2014. Bulletin of Glaciological Research, 2016, 34, 33-40.	0.5	9
52	Inter-Annual and Geographical Variations in the Extent of Bare Ice and Dark Ice on the Greenland Ice Sheet Derived from MODIS Satellite Images. Frontiers in Earth Science, 2016, 4, .	0.8	45
53	Variations in Sr and Nd Isotopic Ratios of Mineral Particles in Cryoconite in Western Greenland. Frontiers in Earth Science, 2016, 4, .	0.8	17
54	Taxon interactions control the distributions of cryoconite bacteria colonizing a High Arctic ice cap. Molecular Ecology, 2016, 25, 3752-3767.	2.0	67

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55	Abrupt and moderate climate changes in the mid-latitudes of Asia during the Holocene. Journal of Glaciology, 2016, 62, 411-439.	1.1	37
56	Non-linear waveform analysis for water-layer response and its application to high-frequency receiver function analysis using OBS array. Geophysical Journal International, 2016, 206, 1914-1920.	1.0	12
57	Differential Monte Carlo method for computing seismogram envelopes and their partial derivatives. Journal of Geophysical Research: Solid Earth, 2016, 121, 3428-3444.	1.4	13
58	Estimating high frequency energy radiation of large earthquakes by image deconvolution back-projection. Earth and Planetary Science Letters, 2016, 449, 155-163.	1.8	23
59	Chemistry of Supraglacial Ponds in the Debris-Covered Area of Lirung Glacier in Central Nepal Himalayas. Aquatic Geochemistry, 2016, 22, 35-64.	1.5	6
60	Snow algal communities on glaciers in the Suntar-Khayata Mountain Range in eastern Siberia, Russia. Polar Science, 2016, 10, 227-238.	0.5	22
61	Microbial community variation in cryoconite granules on Qaanaaq Glacier, NW Greenland. FEMS Microbiology Ecology, 2016, 92, fiw127.	1.3	58
62	Cryoconite. Progress in Physical Geography, 2016, 40, 66-111.	1.4	160
63	Temporal changes in snow algal abundance on surface snow in Tohkamachi, Japan. Bulletin of Glaciological Research, 2016, 34, 21-31.	0.5	13
64	Experimental evidence that microbial activity lowers the albedo of glaciers. Geochemical Perspectives Letters, 2016, , 106-116.	1.0	43
65	Twentieth century dust lows and the weakening of the westerly winds over the Tibetan Plateau. Geophysical Research Letters, 2015, 42, 2434-2441.	1.5	39
66	The Effect of Impurities on the Surface Melt of a Glacier in the Suntar-Khayata Mountain Range, Russian Siberia. Frontiers in Earth Science, 2015, 3, .	0.8	32
67	Validations and descriptions of European syntaxa of vegetation dominated by lichens, bryophytes and algae. Lazaroa, 2015, 36, .	0.8	7
68	Census of bacterial microbiota associated with the glacier ice worm Mesenchytraeus solifugus. FEMS Microbiology Ecology, 2015, 91, .	1.3	35
69	What animals can live in cryoconite holes? A faunal review. Journal of Zoology, 2015, 295, 159-169.	0.8	75
70	Mineralogical composition of cryoconite on glaciers in northwest Greenland. Bulletin of Glaciological Research, 2014, 32, 107-114.	0.5	19
71	Spatial variations in impurities (cryoconite) on glaciers in northwest Greenland. Bulletin of Glaciological Research, 2014, 32, 85-94.	0.5	43
72	Intricate heterogeneous structures of the top 300 km of the Earth's inner core inferred from global array data: II. Frequency dependence of inner core attenuation and its implication. Earth and Planetary Science Letters, 2014, 405, 231-243.	1.8	12

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73	The disappearance of glaciers in the Tien Shan Mountains in Central Asia at the end of Pleistocene. Quaternary Science Reviews, 2014, 103, 26-33.	1.4	35
74	Intricate heterogeneous structures of the top 300km of the Earthâ€™s inner core inferred from global array data: I. Regional 1D attenuation and velocity profiles. Physics of the Earth and Planetary Interiors, 2014, 230, 15-27.	0.7	26
75	Geographical variations in Sr and Nd isotopic ratios of cryoconite on Asian glaciers. Environmental Research Letters, 2014, 9, 045007.	2.2	24
76	The nitrogen cycle in cryoconites: naturally occurring nitrificationâ€denitrification granules on a glacier. Environmental Microbiology, 2014, 16, 3250-3262.	1.8	72
77	Upper mantle tomography in the northwestern Pacific region using triplicated <i>P</i> waves. Journal of Geophysical Research: Solid Earth, 2014, 119, 7667-7685.	1.4	33
78	Field activities of the â€œSnow Impurity and Glacial Microbe effects on abrupt warming in the Arcticâ€• (SIGMA) Project in Greenland in 2011-2013. Bulletin of Glaciological Research, 2014, 32, 3-20.	0.5	41
79	On the possibility of lunar core phase detection using new seismometers for soft-landers in future lunar missions. Planetary and Space Science, 2013, 81, 18-31.	0.9	11
80	Distribution of antibiotic resistance genes in glacier environments. Environmental Microbiology Reports, 2013, 5, 127-134.	1.0	161
81	Seasonal and altitudinal variations in snow algal communities on an Alaskan glacier (Gulkana glacier) Tj ETQq1 1 0.784314 rgBT /Overlo	2.2	57
82	DNA analysis for section identification of individual <i>Pinus</i> pollen grains from Belukha glacier, Altai Mountains, Russia. Environmental Research Letters, 2013, 8, 014032.	2.2	11
83	High-velocity anomaly adjacent to the western edge of the Pacific low-velocity province. Geophysical Journal International, 2013, 192, 1-6.	1.0	11
84	Can a sheetâ€like lowâ€velocity region form an elongated Large Igneous Province?. Geochemistry, Geophysics, Geosystems, 2013, 14, 3053-3066.	1.0	2
85	Detection of ridge-like structures in the Pacific Large Low-Shear-Velocity Province. Earth and Planetary Science Letters, 2012, 319-320, 55-64.	1.8	14
86	Reevaluation of the reconstruction of summer temperatures from melt features in Belukha ice cores, Siberian Altai. Journal of Geophysical Research, 2011, 116, .	3.3	13
87	Evidence for propagation of cold-adapted yeast in an ice core from a Siberian Altai glacier. Journal of Geophysical Research, 2011, 116, .	3.3	13
88	Microscopic analyses of insoluble particles in an ice core of ÃœrÃ¼mqi Glacier No. 1: Quantification of mineral and organic particles. Journal of Earth Science (Wuhan, China), 2011, 22, 431-440.	1.1	6
89	Establishing the Timing of Chemical Deposition Events on Belukha Glacier, Altai Mountains, Russia, Using Pollen Analysis. Arctic, Antarctic, and Alpine Research, 2011, 43, 66-72.	0.4	13
90	Favorable climatic regime for maintaining the present-day geometry of the Gregoriev Glacier, Inner Tien Shan. Cryosphere, 2011, 5, 539-549.	1.5	48

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91	Glacial Ecosystems. Encyclopedia of Earth Sciences Series, 2011, , 330-331.	0.1	4
92	Cryoconite. Encyclopedia of Earth Sciences Series, 2011, , 168-171.	0.1	1
93	Altitudinal Changes in a Bacterial Community on Gulkana Glacier in Alaska. Microbes and Environments, 2010, 25, 171-182.	0.7	33
94	Application of real-time PCR array to the multiple detection of antibiotic resistant genes in glacier ice samples. Journal of General and Applied Microbiology, 2010, 56, 43-52.	0.4	23
95	Simulation of heterogeneity sections obtained by neutrino radiography. Earth, Planets and Space, 2010, 62, 215-221.	0.9	6
96	Sr, Nd and Pb stable isotopes of surface dust on ÃœrÃ¼mqi glacier No. 1 in western China. Annals of Glaciology, 2010, 51, 95-105.	2.8	23
97	Structure and formation process of cryoconite granules on ÃœrÃ¼mqi glacier No. 1 , Tien Shan, China. Annals of Glaciology, 2010, 51, 9-14.	2.8	85
98	Cyanobacterial communities on Qiyi glacier, Qilian Shan, China. Annals of Glaciology, 2010, 51, 135-144.	2.8	26
99	Seismic attenuation structure of the top half of the inner core beneath the northeastern Pacific. Geophysical Research Letters, 2010, 37, .	1.5	18
100	Fine-scale topography of the Dâ€³ discontinuity and its correlation to volumetric velocity fluctuations. Physics of the Earth and Planetary Interiors, 2010, 183, 126-135.	0.7	10
101	A shallow ice core re-drilled on the Dunde Ice Cap, western China: recent changes in the Asian high mountains. Environmental Research Letters, 2009, 4, 045207.	2.2	15
102	Temporal and spatial variations in spectral reflectance and characteristics of surface dust on Gulkana Glacier, Alaska Range. Journal of Glaciology, 2009, 55, 701-709.	1.1	48
103	Capability of the penetrator seismometer system for lunar seismic event observation. Planetary and Space Science, 2009, 57, 751-763.	0.9	21
104	A lowâ€velocity conduit throughout the mantle in the robust component of a tomography model. Geophysical Research Letters, 2009, 36, .	1.5	5
105	Onset of calving at supraglacial lakes on debris-covered glaciers of the Nepal Himalaya. Journal of Glaciology, 2009, 55, 909-917.	1.1	96
106	Extent of the lowâ€velocity region in the lowermost mantle beneath the western Pacific detected by the Vietnamese Broadband Seismograph Array. Geophysical Research Letters, 2008, 35, .	1.5	29
107	Depth-dependent attenuation structure of the inner core inferred from short-period Hi-net data. Physics of the Earth and Planetary Interiors, 2008, 167, 155-160.	0.7	17
108	Characteristics of Surface Dust on ÃœrÃ¼mqi Glacier No. 1 in the Tien Shan Mountains, China. Arctic, Antarctic, and Alpine Research, 2008, 40, 744-750.	0.4	89

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109	Estimation of net accumulation rate at a Patagonian glacier by ice core analyses using snow algae. Global and Planetary Change, 2007, 59, 236-244.	1.6	20
110	Possible evidence for a double crossing phase transition in Dâ€³ beneath Central America from inversion of seismic waveforms. Geophysical Research Letters, 2007, 34, .	1.5	35
111	Chemical characteristics of pond waters within the debris area of Lirung Glacier in Nepal Himalaya. Journal of Limnology, 2007, 66, 71.	0.3	16
112	Whole mantle SH velocity model constrained by waveform inversion based on three-dimensional Born kernels. Geophysical Journal International, 2007, 169, 1153-1163.	1.0	55
113	Thirty-year history of glacier melting in the Nepal Himalayas. Journal of Geophysical Research, 2006, 111, .	3.3	23
114	A snow algal community on Akkem glacier in the Russian Altai mountains. Annals of Glaciology, 2006, 43, 378-384.	2.8	50
115	Snow algae in a Himalayan ice core: new environmental markers for ice-core analyses and their correlation with summer mass balance. Annals of Glaciology, 2006, 43, 148-153.	2.8	16
116	Complete synthetic seismograms up to 2 Hz for transversely isotropic spherically symmetric media. Geophysical Journal International, 2006, 164, 411-424.	1.0	100
117	Concentrations and source variations of n-alkanes in a 21 m ice core and snow samples at Belukha glacier, Russian Altai mountains. Annals of Glaciology, 2006, 43, 142-147.	2.8	16
118	Climatic and atmospheric circulation pattern variability from ice-core isotope/geochemistry records (Altai, Tien Shan and Tibet). Annals of Glaciology, 2006, 43, 49-60.	2.8	130
119	Spatial distribution and abundance of red snow algae on the Harding Icefield, Alaska derived from a satellite image. Geophysical Research Letters, 2006, 33, .	1.5	77
120	Stable-isotope time series and precipitation origin from firn-core and snow samples, Altai glaciers, Siberia. Journal of Glaciology, 2005, 51, 637-654.	1.1	47
121	Finite boundary perturbation theory for the elastic equation of motion. Geophysical Journal International, 2005, 160, 1044-1058.	1.0	10
122	Dating of seasonal snow/firn accumulation layers using pollen analysis. Journal of Glaciology, 2005, 51, 483-490.	1.1	39
123	An Observation of PKJKP: Inferences on Inner Core Shear Properties. Science, 2005, 308, 1453-1455.	6.0	58
124	3D effects of sharp boundaries at the borders of the African and Pacific Superplumes: Observation and modeling. Earth and Planetary Science Letters, 2005, 233, 137-153.	1.8	116
125	A Snow Algal Community on Tyndall Glacier in the Southern Patagonia Icefield, Chile. Arctic, Antarctic, and Alpine Research, 2004, 36, 92-99.	0.4	60
126	Improvement of seismological earth models by using data weighting in waveform inversion. Geophysical Journal International, 2004, 158, 681-694.	1.0	4

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127	Accurate numerical methods for solving the elastic equation of motion for arbitrary source locations. Geophysical Journal International, 2003, 154, 852-866.	1.0	11
128	Application of Distributed Object Technology to Seismic Waveform Distribution. Seismological Research Letters, 2002, 73, 166-172.	0.8	2
129	Optical characteristics of cryoconite (surface dust) on glaciers: the relationship between light absorbency and the property of organic matter contained in the cryoconite. Annals of Glaciology, 2002, 34, 409-414.	2.8	112
130	Glacier Ecosystem and Biological ICE-Core Analysis. Series of the Centro De Estudios CientÃficos De Santiago, 2002, , 1-8.	0.2	5
131	Structure, Formation, and Darkening Process of Albedo-reducing Material (Cryoconite) on a Himalayan Glacier: A Granular Algal Mat Growing on the Glacier. Arctic, Antarctic, and Alpine Research, 2001, 33, 115-122.	0.4	192
132	The altitudinal distribution of snow algae on an Alaska glacier (Gulkana Glacier in the Alaska Range). Hydrological Processes, 2001, 15, 3447-3459.	1.1	91
133	Structure, Formation, and Darkening Process of Albedo-Reducing Material (Cryoconite) on a Himalayan Glacier: A Granular Algal Mat Growing on the Glacier. Arctic, Antarctic, and Alpine Research, 2001, 33, 115.	0.4	136
134	Himalayan ice-core dating with snow algae. Journal of Glaciology, 2000, 46, 335-340.	1.1	49
135	The COSY Project: verification of global seismic modeling algorithms. Physics of the Earth and Planetary Interiors, 2000, 119, 3-23.	0.7	38
136	Complete synthetic seismograms for 3-D heterogeneous Earth models computed using modified DSM operators and their applicability to inversion for Earth structure. Physics of the Earth and Planetary Interiors, 2000, 119, 25-36.	0.7	48
137	Comparison of Accuracy and Efficiency of Time-domain Schemes for Calculating Synthetic Seismograms. Physics of the Earth and Planetary Interiors, 2000, 119, 75-97.	0.7	27
138	Optimally accurate second order time-domain finite difference scheme for computing synthetic seismograms in 2-D and 3-D media. Physics of the Earth and Planetary Interiors, 2000, 119, 99-131.	0.7	90
139	DSM complete synthetic seismograms: P-SV, spherically symmetric, case. Geophysical Research Letters, 1994, 21, 1663-1666.	1.5	38