Keith D Koper

List of Publications by Year
in descending order

61 papers	2,462 citations	257357 24 h-index	206029 48 g-index
66 all docs	66 docs citations	66 times ranked	2117 citing authors

#	Article	IF	Citations
1	Depthâ€varying rupture properties of subduction zone megathrust faults. Journal of Geophysical Research, 2012, 117, .	3.3	442
2	En Ã©chelon and orthogonal fault ruptures of the 11 April 2012 great intraplate earthquakes. Nature, 2012, 490, 245-249.	13.7	206
3	Frequency-dependent rupture process of the 2011 M w 9.0 Tohoku Earthquake: Comparison of short-period P wave backprojection images and broadband seismic rupture models. Earth, Planets and Space, 2011, 63, 599-602.	0.9	192
4	Rupture imaging of the M_w 7.9 12 May 2008 Wenchuan earthquake from back projection of teleseismic P waves. Geochemistry, Geophysics, Geosystems, 2009, 10, .	1.0	146
5	Imaging shortâ€period seismic radiation from the 27 February 2010 Chile (M_W) Tj ETQq1 1 0.784314 rgB Research, 2012, 117, .	3.3	93
6	On the Composition of Earth's Short-Period Seismic Noise Field. Bulletin of the Seismological Society of America, 2010, 100, 606-617.	1.1	89
7	Rapidly Estimated Seismic Source Parameters for the 16 September 2015 Illapel, Chile M w 8.3 Earthquake. Pure and Applied Geophysics, 2016, 173, 321-332.	0.8	72
8	The fine structure of doubleâ€frequency microseisms recorded by seismometers in North America. Journal of Geophysical Research: Solid Earth, 2015, 120, 1677-1691.	1.4	69
9	Supershear rupture of the 5 January 2013 Craig, Alaska (M_w 7.5) earthquake. Journal of Geophysical Research: Solid Earth, 2013, 118, 5903-5919.	1.4	68
10	Composition and variation of noise recorded at the Yellowknife Seismic Array, 1991â€“2007. Journal of Geophysical Research, 2009, 114, .	3.3	59
11	Evidence for small-scale heterogeneity in Earth's inner core from a global study of PKiKP coda waves. Earth and Planetary Science Letters, 2004, 228, 227-241.	1.8	56
12	Seismic properties of the inner core boundary from PKiKP/P amplitude ratios. Earth and Planetary Science Letters, 2005, 237, 680-694.	1.8	56
13	Imaging the 2016 M_w 7.8 Kaikoura, New Zealand, earthquake with teleseismic P waves: A cascading rupture across multiple faults. Geophysical Research Letters, 2017, 44, 4790-4798.	1.5	55
14	Frequency dependent polarization analysis of ambient seismic noise recorded at a broadband seismometer in the central United States. Earthquake Science, 2010, 23, 439-447.	0.4	53
15	Source locations of teleseismic P, SV, and SH waves observed in microseisms recorded by a large aperture seismic array in China. Earth and Planetary Science Letters, 2016, 449, 39-47.	1.8	45
16	Along-dip variation of teleseismic short-period radiation from the 11 March 2011 Tohoku earthquake (M_w9.0). Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	39
17	Dominant seismic noise sources in the Southern Ocean and West Pacific, 2000â€“2012, recorded at the Warramunga Seismic Array, Australia. Geophysical Research Letters, 2014, 41, 3455-3463.	1.5	37
18	Constraints on aspherical core structure fromPKiKP-PcPdifferential travel times. Journal of Geophysical Research, 2003, 108, .	3.3	35

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19	The frequency dependence and locations of shortâ€period microseisms generated in the Southern Ocean and West Pacific. Journal of Geophysical Research: Solid Earth, 2015, 120, 5764-5781.	1.4	35
20	Dynamics of the Bingham Canyon rock avalanches (Utah, USA) resolved from topographic, seismic, and infrasound data. Journal of Geophysical Research F: Earth Surface, 2017, 122, 615-640.	1.0	34
21	Microseisms from Superstorm Sandy. Earth and Planetary Science Letters, 2014, 402, 324-336.	1.8	33
22	Seismic Analysis of the 2020 Magna, Utah, Earthquake Sequence: Evidence for a Listric Wasatch Fault. Geophysical Research Letters, 2020, 47, e2020GL089798.	1.5	32
23	Highâ€resolution probing of inner core structure with seismic interferometry. Geophysical Research Letters, 2015, 42, 10,622.	1.5	27
24	Lakes as a Source of Shortâ€Period (0.5â€“2Âs) Microseisms. Journal of Geophysical Research: Solid Earth, 2017, 122, 8241-8256.	1.4	26
25	How Processing Methodologies Can Distort and Bias Power Spectral Density Estimates of Seismic Background Noise. Seismological Research Letters, 2020, 91, 1694-1706.	0.8	26
26	Magnitudeâ€based discrimination of manâ€made seismic events from naturally occurring earthquakes in Utah, USA. Geophysical Research Letters, 2016, 43, 10,638.	1.5	24
27	Anthropogenic sources stimulate resonance of a natural rock bridge. Geophysical Research Letters, 2016, 43, 9669-9676.	1.5	23
28	Depth Discrimination Using Rgâ€toâ€Sg Spectral Amplitude Ratios for Seismic Events in Utah Recorded at Local Distances. Bulletin of the Seismological Society of America, 2018, 108, 1355-1368.	1.1	22
29	UsingPKiKPcoda to determine inner core structure: 2. Determination ofQC. Journal of Geophysical Research, 2007, 112, .	3.3	21
30	Afterslip Enhanced Aftershock Activity During the 2017 Earthquake Sequence Near Sulphur Peak, Idaho. Geophysical Research Letters, 2018, 45, 5352-5361.	1.5	21
31	Regional Seismic Network Monitoring in the Eastern Intermountain West. Seismological Research Letters, 2020, 91, 631-646.	0.8	19
32	Combining Deep Learning With Physics Based Features in Explosionâ€Earthquake Discrimination. Geophysical Research Letters, 2022, 49, .	1.5	19
33	Detecting and characterizing coal mine related seismicity in the Western U.S. using subspace methods. Geophysical Journal International, 2015, 203, 1388-1399.	1.0	18
34	The 2 March 2016 Wharton Basin M_wâ€‰7.8 earthquake: High stress drop northâ€south strikeâ€slip rupture in the diffuse oceanic deformation zone between the Indian and Australian Plates. Geophysical Research Letters, 2016, 43, 7937-7945.	1.5	18
35	Spatiotemporal Seismic Structure Variations Associated With the 2018 KÄ«lauea Eruption Based on Temporary Dense Geophone Arrays. Geophysical Research Letters, 2020, 47, e2019GL086668.	1.5	18
36	Location of highâ€frequency P wave microseismic noise in the Pacific Ocean using multiple small aperture arrays. Geophysical Research Letters, 2015, 42, 2700-2708.	1.5	17

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37	Changes in miningâ€induced seismicity before and after the 2007 Crandall Canyon Mine collapse. Journal of Geophysical Research: Solid Earth, 2014, 119, 4876-4889.	1.4	16
38	Deep Learning Denoising Applied to Regional Distance Seismic Data in Utah. Bulletin of the Seismological Society of America, 2021, 111, 775-790.	1.1	16
39	Discrimination of Small Earthquakes and Buried Single-Fired Chemical Explosions at Local Distances (<150â€‰â€‰km) in the Western United States from Comparison of Local Magnitude (ML) and Coda Duration Magnitude (MC). Bulletin of the Seismological Society of America, 2021, 111, 558-570.	1.1	15
40	Full wavefield decomposition of highâ€frequency secondary microseisms reveals distinct arrival azimuths for Rayleigh and Love waves. Journal of Geophysical Research: Solid Earth, 2017, 122, 4660-4675.	1.4	13
41	Seismicity in the Challis, Idaho, Region, January 2014â€“May 2017: Late Aftershocks of the 1983 MsÂ7.3 Borah Peak Earthquake. Seismological Research Letters, 2018, 89, 1366-1378.	0.8	13
42	The 2017â€“2018 Maple Creek Earthquake Sequence in Yellowstone National Park, USA. Geophysical Research Letters, 2019, 46, 4653-4663.	1.5	13
43	Alongâ€dip seismic radiation segmentation during the 2007 M_w 8.0 Pisco, Peru earthquake. Geophysical Research Letters, 2012, 39, .	1.5	12
44	On the Portability of MLâ€“Mc as a Depth Discriminant for Small Seismic Events Recorded at Local Distances. Bulletin of the Seismological Society of America, 2019, 109, 1661-1673.	1.1	12
45	Irregular Transition Layer Beneath the Earth's Inner Core Boundary From Observations of Antipodal PKIKP and PKIIKP Waves. Geochemistry, Geophysics, Geosystems, 2018, 19, 3607-3622.	1.0	11
46	A New Uniform Moment Tensor Catalog for Yunnan, China, from January 2000 through December 2014. Seismological Research Letters, 2020, 91, 891-900.	0.8	11
47	The Importance of Regional Seismic Networks in Monitoring Nuclear Test-Ban Treaties. Seismological Research Letters, 2020, 91, 573-580.	0.8	10
48	Discrimination of Anthropogenic Events and Tectonic Earthquakes in Utah Using a Quadratic Discriminant Function Approach with Local Distance Amplitude Ratios. Bulletin of the Seismological Society of America, 2018, 108, 2788-2800.	1.1	9
49	Responding to the 2020 Magna, Utah, Earthquake Sequence during the COVID-19 Pandemic Shutdown. Seismological Research Letters, 2021, 92, 6-16.	0.8	9
50	Determination of Rayleigh wave ellipticity across the Earthscope Transportable Array using single-station and array-based processing of ambient seismic noise. Geophysical Journal International, 2017, 208, 234-245.	1.0	8
51	Monitoring the 2020 Magna, Utah, Earthquake Sequence with Nodal Seismometers and Machine Learning. Seismological Research Letters, 2021, 92, 787-801.	0.8	8
52	Toward Robust and Routine Determination of Mw for Small Earthquakes: Application to the 2020 MwÂ5.7 Magna, Utah, Seismic Sequence. Seismological Research Letters, 2021, 92, 725-740.	0.8	8
53	A New Catalog of Explosion Source Parameters in the Utah Region with Application to MLâ€“MCâ€Based Depth Discrimination at Local Distances. Seismological Research Letters, 2020, 91, 222-236.	0.8	7
54	Advancing Local Distance Discrimination of Explosions and Earthquakes With Joint P/S and M_Lâ€M_C Classification. Geophysical Research Letters, 2021, 48, e2021GL095721.	1.5	7

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55	FastTrip: A Fast MPI-Accelerated 1D Triplication Waveform Inversion Package for Constraining Mantle Transition Zone Discontinuities. Seismological Research Letters, 2021, 92, 2647-2656.	0.8	6
56	Excitation of Earth's inner core rotational oscillation during 2001â€“2003 captured by earthquake doublets. Earth and Planetary Science Letters, 2022, 584, 117504.	1.8	4
57	Planning a Global Array of Broadband Seismic Arrays. Eos, 2013, 94, 300-300.	0.1	3
58	Preface to the Focus Section on the 2020 Intermountain West Earthquakes. Seismological Research Letters, 2021, 92, 636-639.	0.8	2
59	Reply to: Comment by Rodrigo Cienfuegos on â€œRapidly Estimated Seismic Source Parameters for the 16 September 2015 Illapel, Chile, Mw 8.3 Earthquakeâ€• by Lingling Ye, Thorne Lay, Hiroo Kanamori, and Keith D. Koper. Pure and Applied Geophysics, 2019, 176, 2753-2753.	0.8	1
60	Introducing The Seismic Recordâ€”A New, Open-Access Journal from the Seismological Society of America. The Seismic Record, 2021, 1, 1-2.	1.3	0
61	Recalibration of the Local Magnitude (ML) Scale for Earthquakes in the Yellowstone Volcanic Region. Bulletin of the Seismological Society of America, 2022, 112, 905-920.	1.1	0