Paul A Johnson

List of Publications by Year
in descending order

164 papers	9,410 citations	44069 48 h-index	43889 91 g-index
192 all docs	192 docs citations	192 times ranked	3787 citing authors

#	Article	IF	Citations
1	Machine learning for data-driven discovery in solid Earth geoscience. Science, 2019, 363, .	12.6	563
2	Nonlinear Mesoscopic Elasticity: Evidence for a New Class of Materials. Physics Today, 1999, 52, 30-36.	0.3	496
3	Nonlinear Elastic Wave Spectroscopy (NEWS) Techniques to Discern Material Damage, Part I: Nonlinear Wave Modulation Spectroscopy (NWMS). Research in Nondestructive Evaluation, 2000, 12, 17-30.	1.1	413
4	Nonlinear dynamics, granular media and dynamic earthquake triggering. Nature, 2005, 437, 871-874.	27.8	343
5	Nonlinear Elastic Wave Spectroscopy (NEWS) Techniques to Discern Material Damage, Part I: Nonlinear Wave Modulation Spectroscopy (NWMS). Research in Nondestructive Evaluation, 2000, 12, 17-30.	1.1	315
6	Nonlinear Elastic Wave Spectroscopy (NEWS) Techniques to Discern Material Damage, Part II: Single-Mode Nonlinear Resonance Acoustic Spectroscopy. Research in Nondestructive Evaluation, 2000, 12, 31-42.	1.1	289
7	Machine Learning Predicts Laboratory Earthquakes. Geophysical Research Letters, 2017, 44, 9276-9282.	4.0	272
8	Dynamic nonlinear elasticity in geomaterials. Rivista Del Nuovo Cimento, 2001, 24, 1-46.	5.7	257
9	Micro-damage diagnostics using nonlinear elastic wave spectroscopy (NEWS). NDT and E International, 2001, 34, 239-248.	3.7	242
10	Nonlinear ground-motion amplification by sediments during the 1994 Northridge earthquake. Nature, 1997, 390, 599-602.	27.8	217
11	Slow dynamics and anomalous nonlinear fast dynamics in diverse solids. Journal of the Acoustical Society of America, 2005, 117, 124-130.	1.1	213
12	Resonance and elastic nonlinear phenomena in rock. Journal of Geophysical Research, 1996, 101, 11553-11564.	3.3	191
13	Effects of acoustic waves on stickâ€“slip in granular media and implications for earthquakes. Nature, 2008, 451, 57-60.	27.8	179
14	Nonlinear elasticity and stress-induced anisotropy in rock. Journal of Geophysical Research, 1996, 101, 3113-3124.	3.3	174
15	On the quasi-analytic treatment of hysteretic nonlinear response in elastic wave propagation. Journal of the Acoustical Society of America, 1997, 101, 1885-1898.	1.1	148
16	Applying nonlinear resonant ultrasound spectroscopy to improving thermal damage assessment in concrete. Journal of the Acoustical Society of America, 2007, 121, EL125-EL130.	1.1	137
17	Observations of nonlinear elastic wave behavior in sandstone. Journal of the Acoustical Society of America, 1993, 94, 3387-3391.	1.1	117
18	Dynamic triggering of earthquakes. Nature, 2005, 437, 830-830.	27.8	117

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19	Nonlinear resonant ultrasound spectroscopy (NRUS) applied to damage assessment in bone. Journal of the Acoustical Society of America, 2005, 118, 3946-3952.	1.1	117
20	Interaction Dynamics of Elastic Waves with a Complex Nonlinear Scatterer through the Use of a Time Reversal Mirror. Physical Review Letters, 2007, 98, 104301.	7.8	115
21	Determination of third order elastic constants in a complex solid applying coda wave interferometry. Applied Physics Letters, 2009, 94, .	3.3	115
22	Hysteresis and the Dynamic Elasticity of Consolidated Granular Materials. Physical Review Letters, 1999, 82, 3280-3283.	7.8	114
23	Time Reversal. Acoustics Today, 2008, 4, 5.	1.0	109
24	Acoustic emission and microslip precursors to stickâ€slip failure in sheared granular material. Geophysical Research Letters, 2013, 40, 5627-5631.	4.0	105
25	Nonlinear and Nonequilibrium Dynamics in Geomaterials. Physical Review Letters, 2004, 93, 065501.	7.8	102
26	Similarity of fast and slow earthquakes illuminated by machine learning. Nature Geoscience, 2019, 12, 69-74.	12.9	96
27	Continuous chatter of the Cascadia subduction zone revealed by machine learning. Nature Geoscience, 2019, 12, 75-79.	12.9	95
28	Sensitive imaging of an elastic nonlinear wave-scattering source in a solid. Applied Physics Letters, 2002, 81, 646-648.	3.3	90
29	DeepDetect: A Cascaded Region-Based Densely Connected Network for Seismic Event Detection. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 62-75.	6.3	88
30	Effective impedance boundary optimization and its contribution to dipole radiation and radiation pattern control. Nature Communications, 2014, 5, 3188.	12.8	86
31	Nonequilibrium and nonlinear dynamics in Berea and Fontainebleau sandstones: Low-strain regime. Journal of Geophysical Research, 2007, 112, .	3.3	83
32	Manifestation of nonlinear elasticity in rock: convincing evidence over large frequency and strain intervals from laboratory studies. Nonlinear Processes in Geophysics, 1996, 3, 77-88.	1.3	80
33	Imaging nonlinear scatterers applying the time reversal mirror. Journal of the Acoustical Society of America, 2006, 119, 1514-1518.	1.1	78
34	Pump and probe waves in dynamic acousto-elasticity: Comprehensive description and comparison with nonlinear elastic theories. Journal of Applied Physics, 2013, 114, .	2.5	75
35	Single-channel time reversal in elastic solids. Journal of the Acoustical Society of America, 2004, 116, 2779-2784.	1.1	73
36	Influence of water saturation on the nonlinear elastic mesoscopic response in Earth materials and the implications to the mechanism of nonlinearity. Journal of Geophysical Research, 2002, 107, ECV 4-1.	3.3	72

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37	Revealing highly complex elastic nonlinear (anelastic) behavior of Earth materials applying a new probe: Dynamic acoustoelastic testing. Journal of Geophysical Research, 2012, 117, .	3.3	72
38	Time-reversal methods in geophysics. Physics Today, 2010, 63, 31-35.	0.3	71
39	A set of measures for the systematic classification of the nonlinear elastic behavior of disparate rocks. Journal of Geophysical Research: Solid Earth, 2015, 120, 1587-1604.	3.4	70
40	Influence of change in physical state on elastic nonlinear response in rock: Significance of effective pressure and water saturation. Journal of Geophysical Research, 1997, 102, 8105-8120.	3.3	69
41	Nonlinear Elastic Wave Spectroscopy (NEWS) Techniques to Discern Material Damage, Part II: Single-Mode Nonlinear Resonance Acoustic Spectroscopy. Research in Nondestructive Evaluation, 2000, 12, 31-42.	1.1	68
42	High-accuracy acoustic detection of nonclassical component of material nonlinearity. Journal of the Acoustical Society of America, 2011, 130, 2654-2661.	1.1	62
43	Nonlinear generation of elastic waves in crystalline rock. Journal of Geophysical Research, 1987, 92, 3597-3602.	3.3	59
44	Estimating Fault Friction From Seismic Signals in the Laboratory. Geophysical Research Letters, 2018, 45, 1321-1329.	4.0	57
45	Laboratory study of linear and nonlinear elastic pulse propagation in sandstone. Journal of the Acoustical Society of America, 1996, 100, 1383-1391.	1.1	56
46	Modeling of Stickâ€Slip Behavior in Sheared Granular Fault Gouge Using the Combined Finiteâ€Discrete Element Method. Journal of Geophysical Research: Solid Earth, 2018, 123, 5774-5792.	3.4	56
47	Time reversal and non-linear elastic wave spectroscopy (TR NEWS) techniques. International Journal of Non-Linear Mechanics, 2008, 43, 209-216.	2.6	54
48	Pairwise Association of Seismic Arrivals with Convolutional Neural Networks. Seismological Research Letters, 2019, 90, 503-509.	1.9	54
49	Microslips as precursors of large slip events in the stickâ€slip dynamics of sheared granular layers: A discrete element model analysis. Geophysical Research Letters, 2013, 40, 4194-4198.	4.0	50
50	Laboratory earthquake forecasting: A machine learning competition. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	50
51	Nonlinear sediment response during the 1994 Northridge earthquake: Observations and finite source simulations. Journal of Geophysical Research, 1998, 103, 26869-26883.	3.3	48
52	Autoâ€acoustic compaction in steady shear flows: Experimental evidence for suppression of shear dilatancy by internal acoustic vibration. Journal of Geophysical Research, 2012, 117, .	3.3	46
53	Transitional nonlinear elastic behaviour in dense granular media. Geophysical Research Letters, 2008, 35, .	4.0	45
54	Study of critical behavior in concrete during curing by application of dynamic linear and nonlinear means. Journal of the Acoustical Society of America, 2003, 113, 1325-1332.	1.1	44

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55	Tremor source location using time reversal: Selecting the appropriate imaging field. Geophysical Research Letters, 2009, 36, .	4.0	41
56	On the micromechanics of slip events in sheared, fluidâ€saturated fault gouge. Geophysical Research Letters, 2017, 44, 6101-6108.	4.0	41
57	Three-dimensional discrete element modeling of triggered slip in sheared granular media. Physical Review E, 2014, 89, 042204.	2.1	40
58	Constraining depth range of S wave velocity decrease after large earthquakes near Parkfield, California. Geophysical Research Letters, 2016, 43, 6129-6136.	4.0	40
59	Poromechanics of stickâ€slip frictional sliding and strength recovery on tectonic faults. Journal of Geophysical Research: Solid Earth, 2015, 120, 6895-6912.	3.4	39
60	Slow dynamics of consolidated granular systems: Multi-scale relaxation. Applied Physics Letters, 2017, 111, .	3.3	39
61	Earthquake Catalogâ€Based Machine Learning Identification of Laboratory Fault States and the Effects of Magnitude of Completeness. Geophysical Research Letters, 2018, 45, 13,269.	4.0	39
62	Frequency, pressure, and strain dependence of nonlinear elasticity in Berea Sandstone. Geophysical Research Letters, 2016, 43, 3226-3236.	4.0	38
63	Tidal triggering of earthquakes suggests poroelastic behavior on the San Andreas Fault. Earth and Planetary Science Letters, 2017, 460, 164-170.	4.4	38
64	Characterizing Acoustic Signals and Searching for Precursors during the Laboratory Seismic Cycle Using Unsupervised Machine Learning. Seismological Research Letters, 2019, 90, 1088-1098.	1.9	38
65	Autonomous extraction of millimeter-scale deformation in InSAR time series using deep learning. Nature Communications, 2021, 12, 6480.	12.8	38
66	Dynamic Acousto-Elasticity in a Fatigue-Cracked Sample. Journal of Nondestructive Evaluation, 2014, 33, 216-225.	2.4	34
67	Probing Slow Earthquakes With Deep Learning. Geophysical Research Letters, 2020, 47, e2019GL085870.	4.0	34
68	On the role of fluids in stickâ€slip dynamics of saturated granular fault gouge using a coupled computational fluid dynamicsâ€discrete element approach. Journal of Geophysical Research: Solid Earth, 2017, 122, 3689-3700.	3.4	33
69	Influence of vibration amplitude on dynamic triggering of slip in sheared granular layers. Physical Review E, 2013, 87, 012205.	2.1	32
70	From Stress Chains to Acoustic Emission. Physical Review Letters, 2019, 123, 048003.	7.8	32
71	Machine Learning Reveals the Seismic Signature of Eruptive Behavior at Piton de la Fournaise Volcano. Geophysical Research Letters, 2020, 47, e2019GL085523.	4.0	32
72	Nonlinear Elastic Wave NDE II. Nonlinear Wave Modulation Spectroscopy and Nonlinear Time Reversed Acoustics. AIP Conference Proceedings, 2005, , .	0.4	31

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73	Fortnightly modulation of San Andreas tremor and low-frequency earthquakes. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8601-8605.	7.1	31
74	Stress induced conditioning and thermal relaxation in the simulation of quasi-static compression experiments. Journal Physics D: Applied Physics, 2003, 36, 288-293.	2.8	30
75	Brittle and ductile friction and the physics of tectonic tremor. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	30
76	Vibration-induced slip in sheared granular layers and the micromechanics of dynamic earthquake triggering. Europhysics Letters, 2011, 96, 14001.	2.0	30
77	Nonlinear dynamical triggering of slow slip on simulated earthquake faults with implications to Earth. Journal of Geophysical Research, 2012, 117, .	3.3	30
78	In situ characterization of shallow elastic nonlinear parameters with Dynamic Acoustoelastic Testing. Journal of Geophysical Research: Solid Earth, 2014, 119, 6907-6923.	3.4	30
79	Nonlinear dynamics induced in a structure by seismic and environmental loading. Journal of the Acoustical Society of America, 2016, 140, 582-590.	1.1	30
80	Predicting fault slip via transfer learning. Nature Communications, 2021, 12, 7319.	12.8	29
81	Application of nonlinear dynamics to monitoring progressive fatigue damage in human cortical bone. Applied Physics Letters, 2007, 91, .	3.3	28
82	Acoustically induced slip in sheared granular layers: Application to dynamic earthquake triggering. Geophysical Research Letters, 2015, 42, 9750-9757.	4.0	28
83	Machine Learning Reveals the State of Intermittent Frictional Dynamics in a Sheared Granular Fault. Geophysical Research Letters, 2019, 46, 7395-7403.	4.0	27
84	Imaging Stress and Faulting Complexity Through Earthquake Waveform Similarity. Geophysical Research Letters, 2020, 47, e2019GL085888.	4.0	27
85	Experimental implementation of reverse time migration for nondestructive evaluation applications. Journal of the Acoustical Society of America, 2011, 129, EL8-EL14.	1.1	26
86	Are megaquakes clustered?. Geophysical Research Letters, 2012, 39, .	4.0	26
87	Mimicking surface plasmons in acoustics at low frequency. Physical Review B, 2015, 92, .	3.2	25
88	Cascading elastic perturbation in Japan due to the 2012 M _w 8.6 Indian Ocean earthquake. Science Advances, 2015, 1, e1500468.	10.3	23
89	Earthquake Arrival Association with Backprojection and Graph Theory. Bulletin of the Seismological Society of America, 2019, 109, 2510-2531.	2.3	23
90	Investigation of the robustness of time reversal acoustics in solid media through the reconstruction of temporally symmetric sources. Journal Physics D: Applied Physics, 2008, 41, 085415.	2.8	22

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91	Inducing in situ, nonlinear soil response applying an active source. Journal of Geophysical Research, 2009, 114, .	3.3	22
92	Nonequilibrium Nonlinear Dynamics in Solids: State of the Art. , 2006, , 49-69.		22
93	Optimized Dynamic Acousto-elasticity Applied to Fatigue Damage and Stress Corrosion Cracking. Journal of Nondestructive Evaluation, 2014, 33, 226-238.	2.4	21
94	Cohesionâ€Induced Stabilization in Stickâ€Slip Dynamics of Weakly Wet, Sheared Granular Fault Gouge. Journal of Geophysical Research: Solid Earth, 2018, 123, 2115-2126.	3.4	21
95	Recurrence statistics of great earthquakes. Geophysical Research Letters, 2013, 40, 3021-3025.	4.0	20
96	Dynamically triggered slip leading to sustained fault gouge weakening under laboratory shear conditions. Geophysical Research Letters, 2016, 43, 1559-1565.	4.0	20
97	Dynamic induced softening in frictional granular materials investigated by discrete-element-method simulation. Physical Review E, 2017, 96, 062901.	2.1	20
98	Longâ€Time Relaxation Induced by Dynamic Forcing in Geomaterials. Journal of Geophysical Research: Solid Earth, 2019, 124, 5003-5013.	3.4	20
99	The Spatiotemporal Evolution of Granular Microslip Precursors to Laboratory Earthquakes. Geophysical Research Letters, 2020, 47, e2020GL088404.	4.0	20
100	Nonlinear acoustic resonances to probe a threaded interface. Journal of Applied Physics, 2010, 107, .	2.5	19
101	Effect of boundary vibration on the frictional behavior of a dense sheared granular layer. Acta Mechanica, 2014, 225, 2227-2237.	2.1	19
102	Softening of stressed granular packings with resonant sound waves. Physical Review E, 2015, 92, 022203.	2.1	19
103	Time reversal reconstruction of finite sized sources in elastic media. Journal of the Acoustical Society of America, 2011, 130, EL219-EL225.	1.1	18
104	Simulation of crack induced nonlinear elasticity using the combined finite-discrete element method. Ultrasonics, 2019, 98, 51-61.	3.9	18
105	Machine learning and fault rupture: A review. Advances in Geophysics, 2020, , 57-107.	2.8	18
106	An exponential build-up in seismic energy suggests a months-long nucleation of slow slip in Cascadia. Nature Communications, 2020, 11, 4139.	12.8	18
107	Time reversal of continuous-wave, steady-state signals in elastic media. Applied Physics Letters, 2009, 94, 111908.	3.3	17
108	An alternative quantitative acoustical and electrical method for detection of cell adhesion process in realâ€time. Biotechnology and Bioengineering, 2011, 108, 947-962.	3.3	17

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109	Bone micro-damage assessment using non-linear resonant ultrasound spectroscopy (NRUS) techniques: A feasibility study. Ultrasonics, 2006, 44, e245-e249.	3.9	16
110	Induced Dynamic Nonlinear Ground Response at Garner Valley, California. Bulletin of the Seismological Society of America, 2008, 98, 1412-1428.	2.3	16
111	Simulating stickâ€slip failure in a sheared granular layer using a physicsâ€based constitutive model. Journal of Geophysical Research: Solid Earth, 2017, 122, 295-307.	3.4	16
112	Robustness of computational time reversal imaging in media with elastic constant uncertainties. Journal of Applied Physics, 2009, 106, .	2.5	15
113	Probing the interior of a solid volume with time reversal and nonlinear elastic wave spectroscopy. Journal of the Acoustical Society of America, 2011, 130, EL258-EL263.	1.1	14
114	Earthquake Detection in 1D Timeâ€Series Data with Feature Selection and Dictionary Learning. Seismological Research Letters, 2019, 90, 563-572.	1.9	14
115	Seasonal and Coseismic Velocity Variation in the Region of L'Aquila From Single Station Measurements and Implications for Crustal Rheology. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB019316.	3.4	14
116	LISA simulations of time-reversed acoustic and elastic wave experiments. Journal Physics D: Applied Physics, 2002, 35, 3145-3152.	2.8	13
117	Spatial-temporal variation of low-frequency earthquake bursts near Parkfield, California. Geophysical Journal International, 2015, 202, 914-919.	2.4	13
118	Using Machine Learning to Discern Eruption in Noisy Environments: A Case Study Using CO2â€Driven Coldâ€Water Geyser in ChimayÃ³, New Mexico. Seismological Research Letters, 2019, 90, 591-603.	1.9	13
119	Nonlinear Elastic Wave NDE I. Nonlinear Resonant Ultrasound Spectroscopy and Slow Dynamics Diagnostics. AIP Conference Proceedings, 2005, , .	0.4	12
120	Energy current imaging method for time reversal in elastic media. Applied Physics Letters, 2009, 95, 021907.	3.3	12
121	Time reversed elastic nonlinearity diagnostic applied to mock osseointegration monitoring applying two experimental models. Journal of the Acoustical Society of America, 2012, 131, 1922-1927.	1.1	12
122	Experimentally identifying masked sources applying time reversal with the selective source reduction method. Journal of Applied Physics, 2009, 105, 083506.	2.5	11
123	Long-term changes of earthquake inter-event times and low-frequency earthquake recurrence in central California. Earth and Planetary Science Letters, 2013, 368, 144-150.	4.4	11
124	Synchronous low frequency earthquakes and implications for deep San Andreas Fault slip. Earth and Planetary Science Letters, 2015, 424, 132-139.	4.4	11
125	Slow Dynamics and Strength Recovery in Unconsolidated Granular Earth Materials: A Mechanistic Theory. Journal of Geophysical Research: Solid Earth, 2017, 122, 7573-7583.	3.4	11
126	Selective source reduction to identify masked sources using time reversal acoustics. Journal Physics D: Applied Physics, 2008, 41, 155504.	2.8	9

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127	Attention Network Forecasts Timeâ€toâ€Failure in Laboratory Shear Experiments. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022195.	3.4	9
128	Modeling dynamic triggering of tectonic tremor using a brittleâ€ductile friction model. Geophysical Research Letters, 2013, 40, 5075-5079.	4.0	7
129	Triggering of repeating earthquakes in central California. Geophysical Research Letters, 2014, 41, 1499-1505.	4.0	7
130	Statistical tests on clustered global earthquake synthetic data sets. Journal of Geophysical Research: Solid Earth, 2015, 120, 5693-5716.	3.4	6
131	Plate motion in sheared granular fault system. Earth and Planetary Science Letters, 2020, 548, 116481.	4.4	6
132	A 3D Full Stress Tensor Model for Oklahoma. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021113.	3.4	6
133	Learning the Low Frequency Earthquake Activity on the Central San Andreas Fault. Geophysical Research Letters, 2021, 48, e2021GL092951.	4.0	6
134	Probing the Damage Zone at Parkfield. Geophysical Research Letters, 2021, 48, e2021GL093518.	4.0	6
135	Nonlinear ultrasound: Potential of the cross-correlation method for osseointegration monitoring. Journal of the Acoustical Society of America, 2012, 132, EL202-EL207.	1.1	5
136	Nonlinear acoustic/seismic waves in earthquake processes. AIP Conference Proceedings, 2012, , .	0.4	5
137	Nonlinear softening of unconsolidated granular earth materials. Journal of Geophysical Research: Solid Earth, 2017, 122, 6998-7008.	3.4	5
138	Do Fluids Modify the Stick-Slip Behavior of Sheared Granular Media?. , 2017, , .		4
139	Nonlinear Resonant Ultrasound Spectroscopy: Assessing Global Damage. , 2019, , 89-101.		4
140	Estimation of the orientation of stress in the Earthâ€™s crust without earthquake or borehole data. Communications Earth & Environment, 2021, 2, .	6.8	4
141	Modelling Nonlinear Ultrasound Propagation in Bone. AIP Conference Proceedings, 2006, , .	0.4	2
142	Traditional Theory of Nonlinear Elasticity, Results. , 0, , 39-67.		2
143	Tremor Waveform Extraction and Automatic Location With Neural Network Interpretation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-9.	6.3	2
144	Nonlinear Resonant Ultrasound Spectroscopy (NRUS) Applied to Damage Assessment in Bone. AIP Conference Proceedings, 2006, , .	0.4	1

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145	Imaging and Characterizing Damage Using Time Reversed Acoustics. AIP Conference Proceedings, 2007, , .	0.4	1
146	SELECTIVE SOURCE REDUCTION TO IDENTIFY MASKED SMALLER SOURCES USING TIME REVERSED ACOUSTICS (TRA). AIP Conference Proceedings, 2008, , .	0.4	1
147	Determination of nonlinear elastic constants and stress monitoring in concrete by coda waves analysis. Proceedings of Meetings on Acoustics, 2009, , .	0.3	1
148	Nonlinear Elasticity and Nondestructive Evaluation and Imaging. , 0, , 323-367.		1
149	Q and Issues of Data Modeling/Analysis. , 0, , 167-198.		1
150	Application of nonlinear elastic resonance spectroscopy for damage detection in concrete. Proceedings of Meetings on Acoustics, 2012, , .	0.3	1
151	Investigating the influence of earthquake source complexity on back-projection images using convolutional neural networks. Geophysical Journal International, 0, , .	2.4	1
152	Nonclassical Nonlinear Acoustics in Solids: Methods, Applications, and the State of the Art. AIP Conference Proceedings, 2006, , .	0.4	0
153	Dynamic Measurements. , 0, , 261-312.		0
154	Field Observations. , 0, , 313-321.		0
155	Mesoscopic Elastic Elements and Macroscopic Equations of State. , 0, , 69-96.		0
156	Auxiliary Fields. , 0, , 97-112.		0
157	Hysteretic Elastic Elements. , 0, , 113-144.		0
158	The Dynamics of Elastic Systems; Fast and Slow. , 0, , 145-165.		0
159	Elastic State Spectroscopies and Elastic State Tomographies. , 0, , 199-225.		0
160	Probing hysteretic elasticity in weakly nonlinear materials. , 2010, , .		0
161	Elastic Linear and Nonlinear Behaviors in Slip Processes. Proceedings of Meetings on Acoustics, 2012, , .	0.3	0
162	Linear and nonlinear elastic properties of dense granular packings: a DEM exploration. EPJ Web of Conferences, 2017, 140, 15033.	0.3	0

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163	Using time-reversal to locate non-volcanic tremor and to fulfill the monitoring objectives of the nuclear-test ban treaty. Proceedings of Meetings on Acoustics, 2010, , .	0.3	0
164	Damage detection in a laboratory-scale wellbore applying Time Reversal and Nonlinear Elastic Wave Spectroscopy (TR NEWS). NDT and E International, 2022, 126, 102573.	3.7	0