

Paul C Sava

List of Publications by Year in descending order

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174
papers

4,304
citations

186265

28
h-index

133252

59
g-index

177
all docs

177
docs citations

177
times ranked

1129
citing authors

#	ARTICLE	IF	CITATIONS
1	Viscoelastic full-waveform inversion with spatial probabilistic petrophysical constraints. , 2021, , .		0
2	Removing residual airborne sensor motion for measuring seismic signals from a drone. Journal of Unmanned Vehicle Systems, 2021, 9, 129-148.	1.2	0
3	Guided wave tomography based on least-squares reverse-time migration. Structural Health Monitoring, 2020, 19, 1237-1249.	7.5	21
4	Elastic full waveform inversion with probabilistic petrophysical clustering. Geophysical Prospecting, 2020, 68, 1341-1355.	1.9	6
5	Elastic full-waveform inversion with spatial probabilistic petrophysical constraints. , 2020, , .		3
6	Speckle noise attenuation in orbital laser vibrometer seismology. Acta Astronautica, 2020, 172, 16-32.	3.2	6
7	Elastic full-waveform inversion with probabilistic petrophysical model constraints. Geophysics, 2020, 85, R101-R111.	2.6	17
8	Multiscale analysis and denoising of near offset vibroseis data. , 2020, , .		0
9	Seismology on small planetary bodies by orbital laser Doppler vibrometry. Advances in Space Research, 2019, 64, 527-544.	2.6	8
10	Least-squares Gaussian beam migration in elastic media. Geophysics, 2019, 84, S329-S340.	2.6	25
11	Least-squares reverse time migration (LSRTM) for damage imaging using Lamb waves. Smart Materials and Structures, 2019, 28, 065010.	3.5	25
12	Wavefield reconstruction using wavelet transform. , 2019, , .		1
13	3D passive wavefield imaging using the energy norm. Geophysics, 2019, 84, KS13-KS27.	2.6	18
14	Appraising structural interpretations using seismic data " Theoretical elements. Geophysics, 2019, 84, N29-N40.	2.6	2
15	Seismic imaging with optimal source wavefield reconstruction. , 2019, , .		4
16	Elastic full waveform inversion with probabilistic petrophysical model constraints. , 2019, , .		2
17	COSMIC OBJECTS PANEL: PERSPECTIVES FOR THE DEFENSE OF HUMAN KIND AGAINST THE NEAR-EARTH OBJECTS HAZARD IN THE NEW MILLENNIUM. , 2019, , .		0
18	Inversion of vector-acoustic data in a local domain. , 2019, , .		1

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19	Distributed acoustic sensing elastic least-squares reverse time migration. , 2019, , .		3
20	Elastic wavefield tomography with probabilistic petrophysical clustering. , 2019, , .		0
21	3D radar wavefield tomography of comet interiors. Advances in Space Research, 2018, 61, 2198-2213.	2.6	16
22	Elastic least-squares reverse time migration using the energy norm. Geophysics, 2018, 83, S237-S248.	2.6	21
23	3D acoustic least-squares reverse time migration using the energy norm. Geophysics, 2018, 83, S261-S270.	2.6	21
24	Multicomponent distributed acoustic sensing: Concept and theory. Geophysics, 2018, 83, P1-P8.	2.6	34
25	3D radar wavefield migration of comet interiors. Advances in Space Research, 2018, 62, 1146-1164.	2.6	8
26	High-resolution multi-component distributed acoustic sensing. Geophysical Prospecting, 2018, 66, 1111-1122.	1.9	28
27	Multicomponent imaging with distributed acoustic sensing. , 2018, , .		3
28	Elastic-reflection waveform inversion with petrophysical model constraints. , 2018, , .		5
29	Localized FWI for time-lapse monitoring. , 2018, , .		1
30	Anisotropic elastic wavefield imaging using the energy norm. Geophysics, 2017, 82, S225-S234.	2.6	26
31	Elastic least-squares reverse time migration. Geophysics, 2017, 82, S315-S325.	2.6	57
32	Cascaded wavefield tomography and inversion using extended common-image-point gathers: A case study. Geophysics, 2017, 82, S391-S401.	2.6	6
33	3D angle decomposition for elastic reverse time migration. Geophysics, 2017, 82, S377-S389.	2.6	1
34	Appraising structural models using seismic data: Problem and challenges. , 2017, , .		0
35	High-resolution multicomponent distributed acoustic sensing. , 2017, , .		2
36	Robust 3D scalar imaging condition for elastic RTM. , 2017, , .		0

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37	Measuring seismic signals with airborne stereo cameras. , 2017, , .		2
38	Airborne seismic data acquisition using stereo vision. Journal of Unmanned Vehicle Systems, 2017, , .	1.2	0
39	Elastic least-squares reverse time migration using the energy norm. , 2017, , .		1
40	Acoustic 3D least-squares reverse time migration using the energy norm. , 2017, , .		1
41	Understanding the reverse time migration backscattering: noise or signal?. Geophysical Prospecting, 2016, 64, 581-594.	1.9	17
42	5. Diffraction Imaging. , 2016, , 655-800.		0
43	Elastic least-squares reverse time migration. , 2016, , .		15
44	Data denoising and interpolation using synthesis and analysis sparse regularization. , 2016, , .		2
45	3D-angle decomposition for elastic reverse time migration. , 2016, , .		0
46	Extended imaging, deconvolution, and two-way wavefields: A comparison. , 2016, , .		1
47	Imaging the model through the wave equation. , 2016, , .		0
48	Passive wavefield imaging using the energy norm. , 2016, , .		1
49	Multicomponent distributed acoustic sensing. , 2016, , .		15
50	Acoustic wavefield imaging using the energy norm. Geophysics, 2016, 81, S151-S163.	2.6	46
51	Isotropic elastic wavefield imaging using the energy norm. Geophysics, 2016, 81, S207-S219.	2.6	34
52	Elastic wavefield tomography with physical model constraints. Geophysics, 2016, 81, R447-R456.	2.6	18
53	Acoustic wavefield imaging using the energy norm. , 2015, , .		9
54	Assessing seismic uncertainty via geostatistical velocity-model perturbation and image registration: An application to subsalt imaging. The Leading Edge, 2015, 34, 1064-1070.	0.7	10

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55	Data domain wavefield tomography using local correlation functions. , 2015, , .		5
56	Wavefield tomography using reverse time migration backscattering. Geophysics, 2015, 80, R57-R69.	2.6	9
57	Imageâ€warping waveform tomography. Geophysical Prospecting, 2015, 63, 1050-1069.	1.9	1
58	Imageâ€domain wavefield tomography with extended commonâ€imageâ€point gathers. Geophysical Prospecting, 2015, 63, 1086-1096.	1.9	25
59	Scalar imaging condition for elastic reverse time migration. Geophysics, 2015, 80, S127-S136.	2.6	101
60	Elastic wavefield tomography with physical model constraints. , 2015, , .		1
61	Seismoelectric beamforming imaging: a sensitivity analysis. Geophysical Journal International, 2015, 201, 1781-1800.	2.4	4
62	Wavefield tomography based on local image correlations. Geophysical Prospecting, 2015, 63, 35-54.	1.9	5
63	Radio reflection imaging of asteroid and comet interiors II: Results and recommendations. Advances in Space Research, 2015, 55, 2166-2176.	2.6	5
64	Radio reflection imaging of asteroid and comet interiors I: Acquisition and imaging theory. Advances in Space Research, 2015, 55, 2149-2165.	2.6	7
65	Anisotropy signature in reverseâ€time migration extended images. Geophysical Prospecting, 2015, 63, 271-282.	1.9	6
66	Elastic wavefield imaging using the energy norm. , 2015, , .		4
67	Tracing Three-Dimensional Acoustic Wavefronts in Inhomogeneous, Moving Media. Journal of Computational Acoustics, 2014, 22, 1450002.	1.0	4
68	High definition cross-well electrical resistivity imaging using seismoelectric focusing and image-guided inversion. Geophysical Journal International, 2014, 198, 880-894.	2.4	16
69	Introduction to this special section: Imaging migration. The Leading Edge, 2014, 33, 950-950.	0.7	1
70	Uncertainty maps for seismic images through geostatistical model randomization. , 2014, , .		3
71	Seismoelectric coupling in unsaturated porous media: theory, petrophysics, and saturation front localization using an electroacoustic approach. Geophysical Journal International, 2014, 196, 867-884.	2.4	50
72	Converted-waves imaging condition for elastic reverse-time migration. , 2014, , .		13

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73	Image-domain and data-domain waveform tomography: A case study. , 2014, , .		2
74	Elastic reverse-time migration with OBS multiples. , 2014, , .		7
75	Linearized wave-equation migration velocity analysis by image warping. Geophysics, 2014, 79, S35-S46.	2.6	11
76	Illumination compensation for image-domain wavefield tomography. Geophysics, 2013, 78, U65-U76.	2.6	32
77	Data-domain and image-domain wavefield tomography. The Leading Edge, 2013, 32, 1064-1072.	0.7	8
78	Wide-azimuth angle gathers for anisotropic wave-equation migration. Geophysical Prospecting, 2013, 61, 75-91.	1.9	11
79	Locating a microseismic event using deconvolution. , 2013, , .		7
80	A comparison of shot-encoding schemes for wave-equation migration. Geophysical Prospecting, 2013, 61, 391-408.	1.9	14
81	Time-lapse image-domain tomography using adjoint-state methods. Geophysics, 2013, 78, A29-A33.	2.6	11
82	Comparison of angle decomposition methods for wave-equation migration. , 2013, , .		12
83	Wavefield tomography using RTM backscattering. , 2013, , .		0
84	Time-lapse image-domain tomography using adjoint-state theory. ASEG Extended Abstracts, 2013, 2013, 1-4.	0.1	0
85	3D image-domain wavefield tomography using time-lag extended images. , 2013, , .		13
86	Shot-domain 4D time-lapse velocity analysis using apparent image displacements. , 2013, , .		1
87	Blended-record imaging: investigations on optimization and possible applications. , 2013, , .		0
88	3D angle gathers from wave-equation extended images. , 2013, , .		0
89	Anisotropy signature in extended images from reverse-time migration. , 2012, , .		6
90	Illumination compensation for subsalt image-domain wavefield tomography. , 2012, , .		8

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91	Virtual electrode current injection using seismic focusing and seismoelectric conversion. Geophysical Journal International, 2012, , .	2.4	11
92	Elastic wave mode separation for tilted transverse isotropy media. Geophysical Prospecting, 2012, 60, 29-48.	1.9	28
93	Wave-equation migration with dithered plane waves. Geophysical Prospecting, 2012, 60, 444-465.	1.9	8
94	Understanding the reverse time migration backscattering: noise or signal?. , 2012, , .		4
95	Waveform tomography based on local image correlations. , 2012, , .		3
96	Time-lapse image-domain velocity analysis using adjoint-state methods. , 2012, , .		0
97	ACOUSTIC WAVEFRONT TRACING IN INHOMOGENEOUS, MOVING MEDIA. Journal of Computational Acoustics, 2012, 20, 1250009.	1.0	2
98	Improving the efficiency of elastic wave-mode separation for heterogeneous tilted transverse isotropic media. Geophysics, 2011, 76, T65-T78.	2.6	63
99	Wide-azimuth angle gathers for wave-equation migration. Geophysics, 2011, 76, S131-S141.	2.6	37
100	A deconvolution-based objective function for wave-equation inversion. , 2011, , .		85
101	Image-domain waveform tomography with two-way wave-equation. , 2011, , .		8
102	Extended imaging conditions for wave-equation migration. Geophysical Prospecting, 2011, 59, 35-55.	1.9	122
103	Wave-equation migration velocity analysis with time-shift imaging. Geophysical Prospecting, 2011, 59, 635-650.	1.9	42
104	Micro-earthquake monitoring with sparsely sampled data. Journal of Petroleum Exploration and Production, 2011, 1, 43-49.	2.4	46
105	Migration Using a Transversely Isotropic Medium with Symmetry Normal to the Reflector Dip. International Journal of Geophysics, 2011, 2011, 1-5.	1.1	3
106	Wide-azimuth angle-domain imaging for anisotropic reverse-time migration. , 2011, , .		2
107	A comparison of shot-encoding schemes for wave-equation migration. , 2011, , .		5
108	An image-guided method for automatically picking common-image-point gathers. , 2011, , .		9

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109	Angle-azimuth decomposition of converted waves using extended images. , 2011, , .		1
110	A transversely isotropic medium with a tilted symmetry axis normal to the reflector. Geophysics, 2010, 75, A19-A24.	2.6	28
111	Blended source imaging by amplitude encoding. , 2010, , .		13
112	Probabilistic microearthquake location for reservoir monitoring. Geophysics, 2010, 75, MA9-MA26.	2.6	29
113	Analysis of converted wave extended images for migration velocity analysis. , 2010, , .		10
114	Moveout analysis of wave-equation extended images. Geophysics, 2010, 75, S151-S161.	2.6	20
115	Nonlinear extended images via image-domain interferometry. Geophysics, 2010, 75, SA105-SA115.	2.6	57
116	Introduction to this special section: High-performance computing. The Leading Edge, 2010, 29, 42-43.	0.7	1
117	Wave equation migration velocity analysis with extended common image point gathers. , 2010, , .		3
118	Modelling and migration with orthogonal isochron rays. Geophysical Prospecting, 2009, 57, 773-784.	1.9	4
119	Overview and classification of wavefield seismic imaging methods. The Leading Edge, 2009, 28, 170-183.	0.7	35
120	Elastic wave-mode separation for VTI media. Geophysics, 2009, 74, WB19-WB32.	2.6	111
121	Elastic wave mode separation for TTI media. , 2009, , .		2
122	Wave equation migration velocity analysis using extended images. , 2009, , .		15
123	Comparison of shot encoding functions for reverse-time migration. , 2009, , .		7
124	Efficient computation of extended images by wavefield based migration. , 2009, , .		8
125	Wave equation extended images via image domain interferometry. , 2009, , .		13
126	Resolution analysis of wide-azimuth angle decomposition for wave equation migration. , 2009, , .		1

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127	3D elastic wave mode separation for TTI media. , 2009, , .		4
128	Probabilistic microearthquake location for reservoir monitoring. , 2009, , .		2
129	Drill Bit Noise Illuminates the San Andreas Fault. Eos, 2008, 89, 349-349.	0.1	8
130	Numeric implementation of wave-equation migration velocity analysis operators. Geophysics, 2008, 73, VE145-VE159.	2.6	43
131	Microearthquake monitoring with sparsely sampled data. , 2008, , .		0
132	Wave-equation angle-domain common-image gathers for converted waves. Geophysics, 2008, 73, S17-S26.	2.6	44
133	Interferometric imaging condition for wave-equation migration. Geophysics, 2008, 73, S47-S61.	2.6	19
134	Isotropic angle-domain elastic reverse-time migration. Geophysics, 2008, 73, S229-S239.	2.6	315
135	Elastic wavefield separation for VTI media. , 2008, , .		13
136	Wave-equation extended images for semblance and depth focusing velocity analysis. , 2008, , .		1
137	Elastic wavefield imaging with scalar and vector potentials. , 2007, , .		17
138	Stereographic imaging condition for wave-equation migration. Geophysics, 2007, 72, A87-A91.	2.6	25
139	High-order kernels for Riemannian wavefield extrapolation. Geophysical Prospecting, 2007, 56, 071030085652001-???.	1.9	1
140	Broadside interferometric and reverse-time imaging of the San Andreas Fault at depth. , 2007, , .		4
141	Stereographic imaging condition for wave-equation migration. , 2007, , .		3
142	Interferometric imaging condition for wave-equation migration. , 2007, , .		1
143	Time-shift imaging condition in seismic migration. Geophysics, 2006, 71, S209-S217.	2.6	298
144	Time-shift imaging condition for converted waves. , 2006, , .		14

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145	Reply to the discussion. <i>Geophysics</i> , 2006, 71, X3-X4.	2.6	0
146	Subsalt Exploration and Development: Imaging, Interpretation, and Drilling—What have we learned? 2006 SEG/EAGE Summer Research Workshop. <i>The Leading Edge</i> , 2006, 25, 1370-1376.	0.7	5
147	Multiple attenuation in the image space. <i>Geophysics</i> , 2005, 70, V10-V20.	2.6	40
148	Riemannian wavefield extrapolation. <i>Geophysics</i> , 2005, 70, T45-T56.	2.6	55
149	Coordinate-independent angle gathers for wave equation migration. , 2005, , .		49
150	Wave-equation common-angle gathers for converted waves. , 2005, , .		22
151	Wave-equation migration velocity analysis by focusing diffractions and reflections. <i>Geophysics</i> , 2005, 70, U19-U27.	2.6	111
152	Wave-equation migration from topography. , 2005, , .		15
153	Time-shift imaging condition. , 2005, , .		10
154	Wave-equation migration velocity analysis. I. Theory. <i>Geophysical Prospecting</i> , 2004, 52, 593-606.	1.9	263
155	Wave-equation migration velocity analysis. II. Subsalt imaging examples. <i>Geophysical Prospecting</i> , 2004, 52, 607-623.	1.9	86
156	Diffraction-focusing migration velocity analysis. , 2004, , .		5
157	Wavefield extrapolation in Riemannian coordinates. , 2004, , .		9
158	Wave-Equation Migration Velocity Analysis. , 2004, , .		9
159	Adaptive phase-ray wavefield extrapolation. , 2004, , .		2
160	The Wilson-Burg method of spectral factorization with application to helical filtering. <i>Geophysical Prospecting</i> , 2003, 51, 409-420.	1.9	18
161	Angle-domain common-image gathers by wavefield continuation methods. <i>Geophysics</i> , 2003, 68, 1065-1074.	2.6	449
162	Prestack residual migration in the frequency domain. <i>Geophysics</i> , 2003, 68, 634-640.	2.6	29

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163	Multiple attenuation in the image space. , 2003, , .		6
164	Waveâ€equation migration velocity analysis by inversion of differential image perturbations. , 2003, , .		2
165	Offset and angleâ€domain common imageâ€point gathers for shotâ€profile migration. Geophysics, 2002, 67, 883-889.	2.6	261
166	Stolt prestack residual migration for converted waves. , 2002, , .		1
167	Waveâ€equation migration velocity analysis beyond the Born approximation. , 2002, , .		3
168	Amplitudeâ€preserved common image gathers by waveâ€equation migration. , 2001, , .		41
169	3-D travelttime computation using Huygens wavefront tracing. Geophysics, 2001, 66, 883-889.	2.6	38
170	Offset and angle domain commonâ€image gathers for shotâ€profile migration. , 2001, , .		12
171	3â€D waveâ€equation imaging of a North Sea dataset: Commonâ€azimuth migration + residual migration. , 2000, , .		7
172	Prestack Stolt residual migration for migration velocity analysis. , 2000, , .		6
173	Waveâ€equation migration velocity analysis. , 1999, , .		105
174	Huygens wavefront tracing: A robust alternative to ray tracing. , 1998, , .		8