

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	Angle-domain common-image gathers by wavefield continuation methods. <i>Geophysics</i> , 2003, 68, 1065-1074.	2.6	449
2	Isotropic angle-domain elastic reverse-time migration. <i>Geophysics</i> , 2008, 73, S229-S239.	2.6	315
3	Time-shift imaging condition in seismic migration. <i>Geophysics</i> , 2006, 71, S209-S217.	2.6	298
4	Wave-equation migration velocity analysis. I. Theory. <i>Geophysical Prospecting</i> , 2004, 52, 593-606.	1.9	263
5	Offset and angle-domain common image-point gathers for shot-profile migration. <i>Geophysics</i> , 2002, 67, 883-889.	2.6	261
6	Extended imaging conditions for wave-equation migration. <i>Geophysical Prospecting</i> , 2011, 59, 35-55.	1.9	122
7	Wave-equation migration velocity analysis by focusing diffractions and reflections. <i>Geophysics</i> , 2005, 70, U19-U27.	2.6	111
8	Elastic wave-mode separation for VTI media. <i>Geophysics</i> , 2009, 74, WB19-WB32.	2.6	111
9	Wave-equation migration velocity analysis. , 1999, , .		105
10	Scalar imaging condition for elastic reverse time migration. <i>Geophysics</i> , 2015, 80, S127-S136.	2.6	101
11	Wave-equation migration velocity analysis. II. Subsalt imaging examples. <i>Geophysical Prospecting</i> , 2004, 52, 607-623.	1.9	86
12	A deconvolution-based objective function for wave-equation inversion. , 2011, , .		85
13	Improving the efficiency of elastic wave-mode separation for heterogeneous tilted transverse isotropic media. <i>Geophysics</i> , 2011, 76, T65-T78.	2.6	63
14	Nonlinear extended images via image-domain interferometry. <i>Geophysics</i> , 2010, 75, SA105-SA115.	2.6	57
15	Elastic least-squares reverse time migration. <i>Geophysics</i> , 2017, 82, S315-S325.	2.6	57
16	Riemannian wavefield extrapolation. <i>Geophysics</i> , 2005, 70, T45-T56.	2.6	55
17	Seismoelectric coupling in unsaturated porous media: theory, petrophysics, and saturation front localization using an electroacoustic approach. <i>Geophysical Journal International</i> , 2014, 196, 867-884.	2.4	50
18	Coordinate-independent angle-gathers for wave equation migration. , 2005, , .		49

#	ARTICLE	IF	CITATIONS
19	Micro-earthquake monitoring with sparsely sampled data. Journal of Petroleum Exploration and Production, 2011, 1, 43-49.	2.4	46
20	Acoustic wavefield imaging using the energy norm. Geophysics, 2016, 81, S151-S163.	2.6	46
21	Wave-equation angle-domain common-image gathers for converted waves. Geophysics, 2008, 73, S17-S26.	2.6	44
22	Numeric implementation of wave-equation migration velocity analysis operators. Geophysics, 2008, 73, VE145-VE159.	2.6	43
23	Wave-equation migration velocity analysis with time-shift imaging. Geophysical Prospecting, 2011, 59, 635-650.	1.9	42
24	Amplitude-preserved common image gathers by wave-equation migration. , 2001, , .		41
25	Multiple attenuation in the image space. Geophysics, 2005, 70, V10-V20.	2.6	40
26	3-D travelttime computation using Huygens wavefront tracing. Geophysics, 2001, 66, 883-889.	2.6	38
27	Wide-azimuth angle gathers for wave-equation migration. Geophysics, 2011, 76, S131-S141.	2.6	37
28	Overview and classification of wavefield seismic imaging methods. The Leading Edge, 2009, 28, 170-183.	0.7	35
29	Isotropic elastic wavefield imaging using the energy norm. Geophysics, 2016, 81, S207-S219.	2.6	34
30	Multicomponent distributed acoustic sensing: Concept and theory. Geophysics, 2018, 83, P1-P8.	2.6	34
31	Illumination compensation for image-domain wavefield tomography. Geophysics, 2013, 78, U65-U76.	2.6	32
32	Prestack residual migration in the frequency domain. Geophysics, 2003, 68, 634-640.	2.6	29
33	Probabilistic microearthquake location for reservoir monitoring. Geophysics, 2010, 75, MA9-MA26.	2.6	29
34	A transversely isotropic medium with a tilted symmetry axis normal to the reflector. Geophysics, 2010, 75, A19-A24.	2.6	28
35	Elastic wave mode separation for tilted transverse isotropy media. Geophysical Prospecting, 2012, 60, 29-48.	1.9	28
36	High-resolution multi-component distributed acoustic sensing. Geophysical Prospecting, 2018, 66, 1111-1122.	1.9	28

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37	Anisotropic elastic wavefield imaging using the energy norm. <i>Geophysics</i> , 2017, 82, S225-S234.	2.6	26
38	Stereographic imaging condition for wave-equation migration. <i>Geophysics</i> , 2007, 72, A87-A91.	2.6	25
39	Image-domain wavefield tomography with extended common-angle gathers. <i>Geophysical Prospecting</i> , 2015, 63, 1086-1096.	1.9	25
40	Least-squares Gaussian beam migration in elastic media. <i>Geophysics</i> , 2019, 84, S329-S340.	2.6	25
41	Least-squares reverse time migration (LSRTM) for damage imaging using Lamb waves. <i>Smart Materials and Structures</i> , 2019, 28, 065010.	3.5	25
42	Wave-equation common-angle gathers for converted waves. , 2005, , .		22
43	Elastic least-squares reverse time migration using the energy norm. <i>Geophysics</i> , 2018, 83, S237-S248.	2.6	21
44	3D acoustic least-squares reverse time migration using the energy norm. <i>Geophysics</i> , 2018, 83, S261-S270.	2.6	21
45	Guided wave tomography based on least-squares reverse-time migration. <i>Structural Health Monitoring</i> , 2020, 19, 1237-1249.	7.5	21
46	Moveout analysis of wave-equation extended images. <i>Geophysics</i> , 2010, 75, S151-S161.	2.6	20
47	Interferometric imaging condition for wave-equation migration. <i>Geophysics</i> , 2008, 73, S47-S61.	2.6	19
48	The Wilson-Burg method of spectral factorization with application to helical filtering. <i>Geophysical Prospecting</i> , 2003, 51, 409-420.	1.9	18
49	Elastic wavefield tomography with physical model constraints. <i>Geophysics</i> , 2016, 81, R447-R456.	2.6	18
50	3D passive wavefield imaging using the energy norm. <i>Geophysics</i> , 2019, 84, KS13-KS27.	2.6	18
51	Elastic wavefield imaging with scalar and vector potentials. , 2007, , .		17
52	Understanding the reverse time migration backscattering: noise or signal?. <i>Geophysical Prospecting</i> , 2016, 64, 581-594.	1.9	17
53	Elastic full-waveform inversion with probabilistic petrophysical model constraints. <i>Geophysics</i> , 2020, 85, R101-R111.	2.6	17
54	High definition cross-well electrical resistivity imaging using seismoelectric focusing and image-guided inversion. <i>Geophysical Journal International</i> , 2014, 198, 880-894.	2.4	16

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55	3D radar wavefield tomography of comet interiors. <i>Advances in Space Research</i> , 2018, 61, 2198-2213.	2.6	16
56	Wave-equation migration velocity analysis using extended images. , 2009, , .		15
57	Elastic least-squares reverse time migration. , 2016, , .		15
58	Multicomponent distributed acoustic sensing. , 2016, , .		15
59	Wave-equation migration from topography. , 2005, , .		15
60	Time-shift imaging condition for converted waves. , 2006, , .		14
61	A comparison of shot-encoding schemes for wave-equation migration. <i>Geophysical Prospecting</i> , 2013, 61, 391-408.	1.9	14
62	Blended source imaging by amplitude encoding. , 2010, , .		13
63	Converted-waves imaging condition for elastic reverse-time migration. , 2014, , .		13
64	Elastic wavefield separation for VTI media. , 2008, , .		13
65	Wave-equation extended images via image-domain interferometry. , 2009, , .		13
66	3D image-domain wavefield tomography using time-lag extended images. , 2013, , .		13
67	Comparison of angle decomposition methods for wave-equation migration. , 2013, , .		12
68	Offset and angle domain common-image gathers for shot-profile migration. , 2001, , .		12
69	Virtual electrode current injection using seismic focusing and seismoelectric conversion. <i>Geophysical Journal International</i> , 2012, , .	2.4	11
70	Wide-azimuth angle gathers for anisotropic wave-equation migration. <i>Geophysical Prospecting</i> , 2013, 61, 75-91.	1.9	11
71	Time-lapse image-domain tomography using adjoint-state methods. <i>Geophysics</i> , 2013, 78, A29-A33.	2.6	11
72	Linearized wave-equation migration velocity analysis by image warping. <i>Geophysics</i> , 2014, 79, S35-S46.	2.6	11

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73	Analysis of converted wave extended images for migration velocity analysis. , 2010, , .		10
74	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
75	Time shift imaging condition. , 2005, , .		10
76	Acoustic wavefield imaging using the energy norm. , 2015, , .		9
77	Wavefield tomography using reverse time migration backscattering. Geophysics, 2015, 80, R57-R69.	2.6	9
78	Wavefield extrapolation in Riemannian coordinates. , 2004, , .		9
79	An image-guided method for automatically picking common image point gathers. , 2011, , .		9
80	Wave-Equation Migration Velocity Analysis. , 2004, , .		9
81	Huygens wavefront tracing: A robust alternative to ray tracing. , 1998, , .		8
82	Drill Bit Noise Illuminates the San Andreas Fault. Eos, 2008, 89, 349-349.	0.1	8
83	Image-domain waveform tomography with two-way wave equation. , 2011, , .		8
84	Illumination compensation for subsalt image-domain wavefield tomography. , 2012, , .		8
85	Wave equation migration with dithered plane waves. Geophysical Prospecting, 2012, 60, 444-465.	1.9	8
86	Data-domain and image-domain wavefield tomography. The Leading Edge, 2013, 32, 1064-1072.	0.7	8
87	3D radar wavefield migration of comet interiors. Advances in Space Research, 2018, 62, 1146-1164.	2.6	8
88	Seismology on small planetary bodies by orbital laser Doppler vibrometry. Advances in Space Research, 2019, 64, 527-544.	2.6	8
89	Efficient computation of extended images by wavefield-based migration. , 2009, , .		8
90	Comparison of shot encoding functions for reverse-time migration. , 2009, , .		7

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91	Locating a microseismic event using deconvolution. , 2013, , .		7
92	Elastic reverse-time migration with OBS multiples. , 2014, , .		7
93	Radio reflection imaging of asteroid and comet interiors I: Acquisition and imaging theory. Advances in Space Research, 2015, 55, 2149-2165.	2.6	7
94	3D wave-equation imaging of a North Sea dataset: Common-azimuth migration + residual migration. , 2000, , .		7
95	Anisotropy signature in extended images from reverse-time migration. , 2012, , .		6
96	Anisotropy signature in reverse-time migration extended images. Geophysical Prospecting, 2015, 63, 271-282.	1.9	6
97	Cascaded wavefield tomography and inversion using extended common-image-point gathers: A case study. Geophysics, 2017, 82, S391-S401.	2.6	6
98	Elastic full waveform inversion with probabilistic petrophysical clustering. Geophysical Prospecting, 2020, 68, 1341-1355.	1.9	6
99	Speckle noise attenuation in orbital laser vibrometer seismology. Acta Astronautica, 2020, 172, 16-32.	3.2	6
100	Multiple attenuation in the image space. , 2003, , .		6
101	Prestack Stolt residual migration for migration velocity analysis. , 2000, , .		6
102	Diffraction-focusing migration velocity analysis. , 2004, , .		5
103	Subsalt Exploration and Development: Imaging, Interpretation, and Drilling”What have we learned? 2006 SEG/EAGE Summer Research Workshop. The Leading Edge, 2006, 25, 1370-1376.	0.7	5
104	Data domain wavefield tomography using local correlation functions. , 2015, , .		5
105	Wavefield tomography based on local image correlations. Geophysical Prospecting, 2015, 63, 35-54.	1.9	5
106	Radio reflection imaging of asteroid and comet interiors II: Results and recommendations. Advances in Space Research, 2015, 55, 2166-2176.	2.6	5
107	A comparison of shot-encoding schemes for wave-equation migration. , 2011, , .		5
108	Elastic-reflection waveform inversion with petrophysical model constraints. , 2018, , .		5

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109	Modelling and migration with orthogonal isochron rays. Geophysical Prospecting, 2009, 57, 773-784.	1.9	4
110	Tracing Three-Dimensional Acoustic Wavefronts in Inhomogeneous, Moving Media. Journal of Computational Acoustics, 2014, 22, 1450002.	1.0	4
111	Seismoelectric beamforming imaging: a sensitivity analysis. Geophysical Journal International, 2015, 201, 1781-1800.	2.4	4
112	Broadside interferometric and reverse-time imaging of the San Andreas Fault at depth. , 2007, , .		4
113	3D elastic wave mode separation for TTI media. , 2009, , .		4
114	Understanding the reverse time migration backscattering: noise or signal?. , 2012, , .		4
115	Elastic wavefield imaging using the energy norm. , 2015, , .		4
116	Seismic imaging with optimal source wavefield reconstruction. , 2019, , .		4
117	Migration Using a Transversely Isotropic Medium with Symmetry Normal to the Reflector Dip. International Journal of Geophysics, 2011, 2011, 1-5.	1.1	3
118	Uncertainty maps for seismic images through geostatistical model randomization. , 2014, , .		3
119	Elastic full-waveform inversion with spatial probabilistic petrophysical constraints. , 2020, , .		3
120	Wave-equation migration velocity analysis beyond the Born approximation. , 2002, , .		3
121	Stereographic imaging condition for wave-equation migration. , 2007, , .		3
122	Wave-equation migration velocity analysis with extended common-image-point gathers. , 2010, , .		3
123	Waveform tomography based on local image correlations. , 2012, , .		3
124	Multicomponent imaging with distributed acoustic sensing. , 2018, , .		3
125	Distributed acoustic sensing elastic least-squares reverse time migration. , 2019, , .		3
126	Elastic wave mode separation for TTI media. , 2009, , .		2

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127	Image-domain and data-domain waveform tomography: A case study. , 2014, , .		2
128	Data denoising and interpolation using synthesis and analysis sparse regularization. , 2016, , .		2
129	High-resolution multicomponent distributed acoustic sensing. , 2017, , .		2
130	Measuring seismic signals with airborne stereo cameras. , 2017, , .		2
131	Appraising structural interpretations using seismic data " Theoretical elements. Geophysics, 2019, 84, N29-N40.	2.6	2
132	Wave"equation migration velocity analysis by inversion of differential image perturbations. , 2003, , .		2
133	Wide"azimuth angle"domain imaging for anisotropic reverse"time migration. , 2011, , .		2
134	Elastic full waveform inversion with probabilistic petrophysical model constraints. , 2019, , .		2
135	Adaptive phase"ray wavefield extrapolation. , 2004, , .		2
136	Probabilistic micro"earthquake location for reservoir monitoring. , 2009, , .		2
137	ACOUSTIC WAVEFRONT TRACING IN INHOMOGENEOUS, MOVING MEDIA. Journal of Computational Acoustics, 2012, 20, 1250009.	1.0	2
138	Stolt prestack residual migration for converted waves. , 2002, , .		1
139	High-order kernels for Riemannian wavefield extrapolation. Geophysical Prospecting, 2007, 56, 071030085652001-???.	1.9	1
140	Introduction to this special section: High-performance computing. The Leading Edge, 2010, 29, 42-43.	0.7	1
141	Introduction to this special section: Imaging migration. The Leading Edge, 2014, 33, 950-950.	0.7	1
142	Image"warping waveform tomography. Geophysical Prospecting, 2015, 63, 1050-1069.	1.9	1
143	Elastic wavefield tomography with physical model constraints. , 2015, , .		1
144	Extended imaging, deconvolution, and two-way wavefields: A comparison. , 2016, , .		1

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145	Passive wavefield imaging using the energy norm. , 2016, , .		1
146	3D angle decomposition for elastic reverse time migration. Geophysics, 2017, 82, S377-S389.	2.6	1
147	Wavefield reconstruction using wavelet transform. , 2019, , .		1
148	Wave-equation extended images for semblance and depth focusing velocity analysis. , 2008, , .		1
149	Resolution analysis of wide-azimuth angle decomposition for wave-equation migration. , 2009, , .		1
150	Angle-azimuth decomposition of converted waves using extended images. , 2011, , .		1
151	Shot-domain 4D time-lapse velocity analysis using apparent image displacements. , 2013, , .		1
152	Elastic least-squares reverse time migration using the energy norm. , 2017, , .		1
153	Interferometric imaging condition for wave-equation migration. , 2007, , .		1
154	Acoustic 3D least-squares reverse time migration using the energy norm. , 2017, , .		1
155	Localized FWI for time-lapse monitoring. , 2018, , .		1
156	Inversion of vector-acoustic data in a local domain. , 2019, , .		1
157	Reply to the discussion. Geophysics, 2006, 71, X3-X4.	2.6	0
158	Micro-earthquake monitoring with sparsely-sampled data. , 2008, , .		0
159	Wavefield tomography using RTM backscattering. , 2013, , .		0
160	Time-lapse image-domain tomography using adjoint-state theory. ASEG Extended Abstracts, 2013, 2013, 1-4.	0.1	0
161	5. Diffraction Imaging. , 2016, , 655-800.		0
162	3D-angle decomposition for elastic reverse time migration. , 2016, , .		0

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163	Imaging the model through the wave equation. , 2016, , .		0
164	Appraising structural models using seismic data: Problem and challenges. , 2017, , .		0
165	Robust 3D scalar imaging condition for elastic RTM. , 2017, , .		0
166	Airborne seismic data acquisition using stereo vision. Journal of Unmanned Vehicle Systems, 2017, , .	1.2	0
167	Viscoelastic full-waveform inversion with spatial probabilistic petrophysical constraints. , 2021, , .		0
168	Removing residual airborne sensor motion for measuring seismic signals from a drone. Journal of Unmanned Vehicle Systems, 2021, 9, 129-148.	1.2	0
169	Time-lapse image-domain velocity analysis using adjoint-state methods. , 2012, , .		0
170	Blended-record imaging: investigations on optimization and possible applications. , 2013, , .		0
171	3D angle gathers from wave-equation extended images. , 2013, , .		0
172	COSMIC OBJECTS PANEL: PERSPECTIVES FOR THE DEFENSE OF HUMAN KIND AGAINST THE NEAR-EARTH OBJECTS HAZARD IN THE NEW MILLENNIUM. , 2019, , .		0
173	Elastic wavefield tomography with probabilistic petrophysical clustering. , 2019, , .		0
174	Multiscale analysis and denoising of near offset vibroseis data. , 2020, , .		0