Lev Vernik

List of Publications by Year
in descending order

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33	2,189	623734	477307
papers	citations	14 h-index	29 g-index

34	34	34	836
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Velocity anisotropy in shales: A petrophysical study. Geophysics, 1997, 62, 521-532.	2.6	532
2	Ultrasonic velocity and anisotropy of hydrocarbon source rocks. Geophysics, 1992, 57, 727-735.	2.6	518
3	Rock physics of organic shales. The Leading Edge, 2011, 30, 318-323.	0.7	186
4	Hydrocarbonâ€generationâ€induced microcracking of source rocks. Geophysics, 1994, 59, 555-563.	2.6	133
5	Do traveltimes in pulseâ€transmission experiments yield anisotropic group or phase velocities?. Geophysics, 1994, 59, 1774-1779.	2.6	128
6	Modeling elastic properties of siliciclastic rocks. Geophysics, 2010, 75, E171-E182.	2.6	125
7	Microcrackâ€induced versus intrinsic elastic anisotropy in mature HCâ€source shales. Geophysics, 1993, 58, 1703-1706.	2.6	104
8	Seismic inversion for organic richness and fracture gradient in unconventional reservoirs: Eagle Ford Shale, Texas. The Leading Edge, 2015, 34, 80-84.	0.7	45
9	Predicting porosity from acoustic velocities in siliciclastics: A new look. Geophysics, 1997, 62, 118-128.	2.6	42
10	S-wave velocity prediction in unconventional shale reservoirs. Geophysics, 2018, 83, MR35-MR45.	2.6	42
11	Elastic Anisotropy of Source Rocks: Implications for Hydrocarbon Generation and Primary Migration. AAPG Bulletin, 1996, 80, .	1.5	32
12	Rock-physics model for unconventional shales. The Leading Edge, 2014, 33, 318-322.	0.7	31
13	Stress sensitivity of sandstones and 4D applications. The Leading Edge, 2009, 28, 90-93.	0.7	30
14	Anisotropic correction of sonic logs in wells with large relative dip. Geophysics, 2008, 73, E1-E5.	2.6	21
15	On some controversial issues in rock physics. The Leading Edge, 2012, 31, 636-642.	0.7	11
16	Relationships between the anisotropy parameters for transversely isotropic mudrocks. Geophysics, 2019, 84, MR195-MR203.	2.6	11
17	Estimating the elastic properties of mica and clay minerals. Geophysics, 2020, 85, MR83-MR95.	2.6	11
18	Physical bounds on C₁₃ and Î´ for organic mudrocks. Geophysics, 2018, 83, A75-A79.	2.6	10

#	Article	IF	Citations
19	Testing popular rock-physics models. The Leading Edge, 2019, 38, 350-357.	0.7	10
20	Rock physics modeling of carbonates. , 2020, , .		8
21	Micromechanics-based rock-physics model for inorganic shale. Geophysics, 2021, 86, MR105-MR116.	2.6	7
22	Constraining seismic rock-property logs in organic shale reservoirs. The Leading Edge, 2015, 34, 1326-1331.	0.7	4
23	Seismic petrophysics workflow applied to Delaware Basin. Interpretation, 2020, 8, T349-T363.	1.1	4
24	Phenomenological models for estimating and constraining c₁₃ for transversely isotropic hydrocarbon source rocks. Geophysics, 2021, 86, MR255-MR260.	2.6	4
25	Reply by the authors to David W. Eaton. Geophysics, 1993, 58, 759-759.	2.6	4
26	Prediction of porosity and lithology in siliciclastic sedimentary rock using cascade neural assemblies. Journal of Petroleum Science and Engineering, 1999, 22, 141-150.	4.2	3
27	The use of â€œverticalizedâ€•stacking velocities to constrain shale properties in west Africa. The Leading Edge, 2009, 28, 184-188.	0.7	3
28	Correcting density/sonic logs for total organic carbon to reduce uncertainty in pore pressure prediction. Geophysical Prospecting, 2021, 69, 586-597.	1.9	2
29	Pore pressure prediction in organic shales. The Leading Edge, 2022, 41, 172-176.	0.7	2
30	Introduction to this special section: Resource plays I: Rock physics. The Leading Edge, 2015, 34, 1324-1324.	0.7	1
31	Elastic depth trends for siliciclastic sequences. Geophysics, 0, , 1-58.	2.6	1
32	Linking preferred orientation of shale minerals to their elasticity. , 2019, , .		1
33	Introduction to this special section: Rock physics. The Leading Edge, 2019, 38, 332-332.	0.7	0