

Abdullatif A Al-Shuhail

List of Publications by Year in descending order

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64
papers

624
citations

566801

15
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676716

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all docs

70
docs citations

70
times ranked

480
citing authors

#	ARTICLE	IF	CITATIONS
1	A new technique for first-arrival picking of refracted seismic data based on digital image segmentation. <i>Geophysics</i> , 2011, 76, V79-V89.	1.4	49
2	A parametric study of machine learning techniques in petroleum reservoir permeability prediction by integrating seismic attributes and wireline data. <i>Journal of Petroleum Science and Engineering</i> , 2019, 176, 762-774.	2.1	49
3	Integrating seismic and log data for improved petroleum reservoir properties estimation using non-linear feature-selection based hybrid computational intelligence models. <i>Journal of Petroleum Science and Engineering</i> , 2016, 145, 230-237.	2.1	40
4	Processing of Seismic Reflection Data Using MATLAB®, c. <i>Synthesis Lectures on Signal Processing</i> , 2011, 5, 1-97.	0.3	37
5	Enhancement of first arrivals using the \tilde{L}_{∞} -p transform on energy-ratio seismic shot records. <i>Geophysics</i> , 2012, 77, V101-V111.	1.4	29
6	Automated SVD filtering of time-frequency distribution for enhancing the SNR of microseismic/microquake events. <i>Journal of Geophysics and Engineering</i> , 2016, 13, 964-973.	0.7	27
7	Mitigating climate change via CO2 sequestration into Biyahd reservoir: geomechanical modeling and caprock integrity. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2019, 24, 23-52.	1.0	24
8	Detection and Denoising of Microseismic Events Using Time-Frequency Representation and Tensor Decomposition. <i>IEEE Access</i> , 2018, 6, 22993-23006.	2.6	22
9	Observation-Driven Method Based on IIR Wiener Filter for Microseismic Data Denoising. <i>Pure and Applied Geophysics</i> , 2018, 175, 2057-2075.	0.8	21
10	The effect of injection well arrangement on CO ₂ injection into carbonate petroleum reservoir. <i>International Journal of Global Warming</i> , 2018, 14, 462.	0.2	21
11	Sparse Multichannel Blind Deconvolution of Seismic Data via Spectral Projected-Gradient. <i>IEEE Access</i> , 2019, 7, 23740-23751.	2.6	20
12	Array Processing in Microseismic Monitoring: Detection, Enhancement, and Localization of Induced Seismicity. <i>IEEE Signal Processing Magazine</i> , 2018, 35, 99-111.	4.6	18
13	The Geomechanical and Fault Activation Modeling during CO2 Injection into Deep Minjur Reservoir, Eastern Saudi Arabia. <i>Sustainability</i> , 2020, 12, 9800.	1.6	17
14	Effects of reservoir size and boundary conditions on pore-pressure buildup and fault reactivation during CO2 injection in deep geological reservoirs. <i>Environmental Earth Sciences</i> , 2020, 79, 1.	1.3	17
15	Microseismic events enhancement and detection in sensor arrays using autocorrelation-based filtering. <i>Geophysical Prospecting</i> , 2017, 65, 1496-1509.	1.0	16
16	Iterative interferometry-based method for picking microseismic events. <i>Journal of Applied Geophysics</i> , 2017, 140, 52-61.	0.9	15
17	Estimating the Total Volume of Running Water Bodies Using Geographic Information System (GIS): A Case Study of Peshawar Basin (Pakistan). <i>Sustainability</i> , 2022, 14, 3754.	1.6	14
18	Three-dimensional supervirtual seismic refraction interferometry. <i>Arabian Journal of Geosciences</i> , 2016, 9, 1.	0.6	10

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19	Using Ground-Penetrating Radar to Delineate Fractures in the Rus Formation, Dammam Dome, Eastern Saudi Arabia. <i>International Geology Review</i> , 2004, 46, 91-96.	1.1	9
20	Enhancement of Passive Microseismic Events Using Seismic Interferometry. <i>Seismological Research Letters</i> , 2013, 84, 781-784.	0.8	9
21	KFUPM Ghawar digital viscoelastic seismic model. <i>Arabian Journal of Geosciences</i> , 2019, 12, 1.	0.6	9
22	Seismic Data Interpretation and Petrophysical Analysis of Kabirwala Area Tola (01) Well, Central Indus Basin, Pakistan. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2911.	1.3	9
23	Characterization of Sabkha Jayb Uwayyid, eastern Saudi Arabia using seismic refraction profiling. <i>Arabian Journal of Geosciences</i> , 2013, 6, 845-855.	0.6	8
24	Joint Inversion of Ground-Penetrating Radar and Seismic Velocities for Porosity and Water Saturation in Shallow Sediments. <i>Journal of Environmental and Engineering Geophysics</i> , 2016, 21, 105-119.	1.0	8
25	Analysis of microseismic events during a multistage hydraulic stimulation experiment at a shale gas reservoir. <i>Petroleum Geoscience</i> , 2017, 23, 386-394.	0.9	8
26	P-wave velocity profile at very shallow depths in sand dunes. <i>Geophysics</i> , 2020, 85, U129-U137.	1.4	8
27	Mapping the internal structure of sand dunes with GPR: A case history from the Jafurah sand sea of eastern Saudi Arabia. <i>The Leading Edge</i> , 2008, 27, 1446-1452.	0.4	7
28	Improving automatic first-arrival picking by supervirtual interferometry: examples from Saudi Arabia. <i>Arabian Journal of Geosciences</i> , 2015, 8, 8731-8740.	0.6	7
29	First Arrival Picking of Seismic Data Based on Trace Envelope. <i>IEEE Access</i> , 2019, 7, 128806-128815.	2.6	7
30	Analysis of Time-Depth Data in Sand Dunes from the Empty Quarter Desert of Southeastern Saudi Arabia. <i>Arabian Journal for Science and Engineering</i> , 2018, 43, 3769-3774.	1.7	6
31	Characterization of Subsurface Cavities using Gravity and Ground Penetrating Radar. <i>Journal of Environmental and Engineering Geophysics</i> , 2019, 24, 265-276.	1.0	5
32	Reflection and transmission of plane waves at an interface separating two poro-viscoelastic materials with continuity and elastic consistence. <i>Geophysical Journal International</i> , 2021, 225, 829-845.	1.0	5
33	Three-dimensional supervirtual seismic refraction interferometry: A case study in western Saudi Arabia. <i>Geophysics</i> , 2021, 86, B123-B133.	1.4	5
34	Fracture-porosity inversion from P-wave AVOA data along 2D seismic lines: An example from the Austin Chalk of southeast Texas. <i>Geophysics</i> , 2007, 72, B1-B7.	1.4	4
35	3D seismic edge detection using magic squares and cubes. <i>Interpretation</i> , 2016, 4, T271-T280.	0.5	4
36	KFUPM-KAUST Red Sea model: Digital viscoelastic depth model and synthetic seismic data set. <i>The Leading Edge</i> , 2017, 36, 507-511.	0.4	4

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37	Characterizing fluid contacts by joint inversion of seismic P-wave impedance and velocity. <i>Journal of Petroleum Exploration and Production</i> , 2018, 8, 117-130.	1.2	4
38	Geological and geophysical investigations of an engineering site characterization for construction purposes in Western Saudi Arabia. <i>Journal of Applied Geophysics</i> , 2021, 188, 104307.	0.9	4
39	Comprehensive Geophysical Study at Wabar Crater, Rub Al-Khali Desert, Saudi Arabia. <i>Earth and Space Science</i> , 2021, 8, e2020EA001432.	1.1	4
40	Mapping the surface of a shallow groundwater system using GPR: A case study in eastern Saudi Arabia. <i>The Leading Edge</i> , 2006, 25, 738-740.	0.4	3
41	Viscoelastic Model and Synthetic Seismic Data of Eastern Rub Al-Khali. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1401.	1.3	3
42	Seismic Data Interpretation and Identification of Hydrocarbon-Bearing Zones of Rajian Area, Pakistan. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 891.	0.8	3
43	Estimation of direct-arrival velocity using the linear moveout velocity analysis method with applications from eastern Saudi Arabia. <i>Journal of Geophysics and Engineering</i> , 2011, 8, 524-530.	0.7	2
44	Seismic array response in the presence of a dipping shallow layer. <i>Signal, Image and Video Processing</i> , 2013, 7, 263-274.	1.7	2
45	Performance of seismic arrays in the presence of weathering layer variations. <i>Arabian Journal of Geosciences</i> , 2016, 9, 1.	0.6	2
46	Integrated Geological, Hydrogeological, and Geophysical Investigations of a Barchan Sand Dune in the Eastern Region of Saudi Arabia. <i>Water (Switzerland)</i> , 2020, 12, 682.	1.2	2
47	Imaging subtle faults using azimuthal coherence attribute: A case study from Central Saudi Arabia. <i>Georabia</i> , 2012, 17, 43-54.	1.6	2
48	Mapping and attenuation of surface waves side scattered by near-surface diffractors. <i>Arabian Journal of Geosciences</i> , 2014, 7, 757-771.	0.6	1
49	Fracture detection via correlating P-wave amplitude variation with offset and azimuth analysis and well data in eastern central Saudi Arabia. <i>Interpretation</i> , 2017, 5, T531-T544.	0.5	1
50	Blind noise estimation and denoising filter for recovery of microquake signals. <i>Exploration Geophysics</i> , 2019, 50, 502-513.	0.5	1
51	Automatic microseismic event detection using constant false alarm rate processing in time-frequency domain. , 2018, , .		1
52	Correction: Ahmad et al. Estimating the Total Volume of Running Water Bodies Using Geographic Information System (GIS): A Case Study of Peshawar Basin (Pakistan). <i>Sustainability</i> 2022, 14, 3754. <i>Sustainability</i> , 2022, 14, 8750.	1.6	1
53	A FORTRAN program to determine fracture principal axes from multiazimuthal seismic P-wave AVO data. <i>Computers and Geosciences</i> , 2004, 30, 313-318.	2.0	0
54	Estimation of velocity function parameters in unconsolidated sands using semblance velocity analysis. <i>Arabian Journal of Geosciences</i> , 2013, 6, 549-556.	0.6	0

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55	One Dimensional Wavefield Extrapolation Filter Design Via L1 Error Approximation. , 2015, , .		0
56	Reservoir Geomechanical Modeling and Ground Uplift During CO2 Injection Into Khuff Reservoir. , 2019, , .		0
57	Structure-Enhancing Filtering. Advances in Oil and Gas Exploration and Production, 2020, , 89-127.	0.1	0
58	Denosing Using Signal Model. Advances in Oil and Gas Exploration and Production, 2020, , 129-151.	0.1	0
59	Robust Filterâ€™Dealing with Impulse Noise. Advances in Oil and Gas Exploration and Production, 2020, , 61-80.	0.1	0
60	Edge-Preserving Smoothing. Advances in Oil and Gas Exploration and Production, 2020, , 81-88.	0.1	0
61	Noise in Seismic Image. Advances in Oil and Gas Exploration and Production, 2020, , 41-50.	0.1	0
62	Introduction to this special section: Middle East. The Leading Edge, 2020, 39, 381-381.	0.4	0
63	Reservoir characterization analysis in glacial reservoirs. Journal of Petroleum Exploration and Production, 0, , 1.	1.2	0
64	Common Transmission Point (CTP) Gathers: A New Domain for Amplitude Variation with Offset. Energies, 2022, 15, 4825.	1.6	0