Hong-fang Lu

List of Publications by Year
in descending order

51	2,122	304602	233338
papers	citations	22 h-index	45 g-index

52	52	52	1595
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hybrid decision tree-based machine learning models for short-term water quality prediction. Chemosphere, 2020, 249, 126169.	4.2	308
2	Oil and Gas 4.0 era: A systematic review and outlook. Computers in Industry, 2019, 111, 68-90.	5.7	171
3	Blockchain Technology in the Oil and Gas Industry: A Review of Applications, Opportunities, Challenges, and Risks. IEEE Access, 2019, 7, 41426-41444.	2.6	162
4	Carbon trading volume and price forecasting in China using multiple machine learning models. Journal of Cleaner Production, 2020, 249, 119386.	4.6	150
5	A hybrid algorithm for carbon dioxide emissions forecasting based on improved lion swarm optimizer. Journal of Cleaner Production, 2020, 244, 118612.	4.6	145
6	Leakage detection techniques for oil and gas pipelines: State-of-the-art. Tunnelling and Underground Space Technology, 2020, 98, 103249.	3.0	139
7	Short-term load forecasting of urban gas using a hybrid model based on improved fruit fly optimization algorithm and support vector machine. Energy Reports, 2019, 5, 666-677.	2.5	74
8	Oil and gas companies' low-carbon emission transition to integrated energy companies. Science of the Total Environment, 2019, 686, 1202-1209.	3.9	69
9	Short-term prediction of building energy consumption employing an improved extreme gradient boosting model: A case study of an intake tower. Energy, 2020, 203, 117756.	4.5	68
10	Carbon dioxide transport via pipelines: A systematic review. Journal of Cleaner Production, 2020, 266, 121994.	4.6	58
11	A hybrid multi-objective optimizer-based model for daily electricity demand prediction considering COVID-19. Energy, 2021, 219, 119568.	4.5	58
12	Study on leakage and ventilation scheme of gas pipeline in tunnel. Journal of Natural Gas Science and Engineering, 2018, 53, 347-358.	2.1	54
13	Trenchless Construction Technologies for Oil and Gas Pipelines: State-of-the-Art Review. Journal of Construction Engineering and Management - ASCE, 2020, 146, .	2.0	51
14	Prediction of offshore wind farm power using a novel two-stage model combining kernel-based nonlinear extension of the Arps decline model with a multi-objective grey wolf optimizer. Renewable and Sustainable Energy Reviews, 2020, 127, 109856.	8.2	51
15	US natural gas consumption prediction using an improved kernel-based nonlinear extension of the Arps decline model. Energy, 2020, 194, 116905.	4.5	47
16	Novel Data-Driven Framework for Predicting Residual Strength of Corroded Pipelines. Journal of Pipeline Systems Engineering and Practice, 2021, 12, .	0.9	45
17	Energy price prediction using data-driven models: A decade review. Computer Science Review, 2021, 39, 100356.	10.2	43
18	An ensemble model based on relevance vector machine and multi-objective salp swarm algorithm for predicting burst pressure of corroded pipelines. Journal of Petroleum Science and Engineering, 2021, 203, 108585.	2.1	38

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19	Multi-stage Rankine cycle (MSRC) model for LNG cold-energy power generation system. Energy, 2018, 165, 673-688.	4.5	33
20	Lake water-level fluctuation forecasting using machine learning models: a systematic review. Environmental Science and Pollution Research, 2020, 27, 44807-44819.	2.7	31
21	Application of Artificial Neural Network in Tunnel Engineering: A Systematic Review. IEEE Access, 2020, 8, 119527-119543.	2.6	29
22	Stress analysis of urban gas pipeline repaired by inserted hose lining method. Composites Part B: Engineering, 2020, 183, 107657.	5.9	25
23	Machine learning approaches for estimation of compressive strength of concrete. European Physical Journal Plus, 2020, 135, 1.	1.2	24
24	How does trenchless technology make pipeline construction greener? A comprehensive carbon footprint and energy consumption analysis. Journal of Cleaner Production, 2020, 261, 121215.	4.6	22
25	Deeppipe: Theory-guided neural network method for predicting burst pressure of corroded pipelines. Chemical Engineering Research and Design, 2022, 162, 595-609.	2.7	20
26	Study on the Effect of Reciprocating Pump Pipeline System Vibration on Oil Transportation Stations. Energies, 2018, 11, 132.	1.6	19
27	A multi-objective optimizer-based model for predicting composite material properties. Construction and Building Materials, 2021, 284, 122746.	3.2	19
28	Hybrid machine learning for pullback force forecasting during horizontal directional drilling. Automation in Construction, 2021, 129, 103810.	4.8	19
29	Numerical Simulation and Structural Optimization of the Inclined Oil/Water Separator. PLoS ONE, 2015, 10, e0124095.	1.1	17
30	Impacts of the COVID-19 pandemic on the energy sector. Journal of Zhejiang University: Science A, 2021, 22, 941-956.	1.3	15
31	Vibration and Stress Analyses of Positive Displacement Pump Pipeline Systems in Oil Transportation Stations. Journal of Pipeline Systems Engineering and Practice, 2016, 7, .	0.9	13
32	Frequency Spectrum Method-Based Stress Analysis for Oil Pipelines in Earthquake Disaster Areas. PLoS ONE, 2015, 10, e0115299.	1.1	11
33	Evaluation of Cross-Sectional Deformation in Pipes Using Reflection of Fundamental Guided-Waves. Journal of Engineering Mechanics - ASCE, 2022, 148, .	1.6	10
34	Study on Buttresses Distance of Gas Pipelines in the Deviated Well Based on Stress Analysis Method. Advance Journal of Food Science and Technology, 2013, 5, 1249-1254.	0.1	9
35	Near Real-Time HDD Pullback Force Prediction Model Based on Improved Radial Basis Function Neural Networks. Journal of Pipeline Systems Engineering and Practice, 2020, 11, 04020042.	0.9	9
36	Stress Analysis of LNG Storage Tank Outlet Pipes and Flanges. Energies, 2018, 11, 877.	1.6	8

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37	Energy metering for the urban gas system: A case study in China. Energy Reports, 2019, 5, 1261-1269.	2.5	8
38	Mathematical Model of Leakage during Pressure Tests of Oil and Gas Pipelines. Journal of Pipeline Systems Engineering and Practice, 2015, 6, .	0.9	7
39	Experimental and Numerical Study of Cyclic Performance of Reinforced Concrete Exterior Connections with Rectangular-Spiral Reinforcement. Journal of Structural Engineering, 2020, 146, .	1.7	7
40	An Effective Data-Driven Model for Predicting Energy Consumption of Long-Distance Oil Pipelines. Journal of Pipeline Systems Engineering and Practice, 2022, 13, .	0.9	7
41	Stress analysis of parallel oil and gas steel pipelines in inclined tunnels. SpringerPlus, 2015, 4, 659.	1.2	6
42	Optimization of light hydrocarbon recovery system in condensate gas field. Energy Reports, 2019, 5, 1209-1221.	2.5	6
43	Stress and displacement analysis of aerial oil & gas pipelines: A case study of Lantsang tunnel crossing project. Journal of Engineering Research, 2015, 3, .	0.4	5
44	Stress Analysis of Suspended Gas Pipeline Segment. Journal of Pipeline Systems Engineering and Practice, 2017, 8, 04017003.	0.9	5
45	A hybrid model for monthly water demand prediction: A case study of Austin, Texas. AWWA Water Science, 2020, 2, e1175.	1.0	5
46	Suspended Oil Pipeline Stress Sensitivity Analysis. , 2014, , .		1
47	Application of Supergravity Technology in a TEG Dehydration Process for Offshore Platforms. Processes, 2019, 7, 43.	1.3	1
48	Scaling and Wax Deposit Mechanisms of FRP Oil Pipelines. Asian Journal of Chemistry, 2014, 26, 5574-5578.	0.1	0
49	Stress Analysis of the Large Excavation River-Crossing Oil Pipeline. , 2014, , .		0
50	L-shaped multihole-buffering oil-feeding process. Advances in Mechanical Engineering, 2017, 9, 168781401770712.	0.8	0
51	Editorial: A Special Issue on Pipelines in Civil Engineering. Open Civil Engineering Journal, 2016, 10, 132-132.	0.4	0