Hong-fang Lu

List of Publications by Year
in descending order

51 papers	2,122 citations	346980 22 h-index	263392 45 g-index
52 all docs	52 docs citations	52 times ranked	1804 citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Evaluation of Cross-Sectional Deformation in Pipes Using Reflection of Fundamental Guided-Waves. Journal of Engineering Mechanics - ASCE, 2022, 148, .	1.6	10
3	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
4	A hybrid multi-objective optimizer-based model for daily electricity demand prediction considering COVID-19. Energy, 2021, 219, 119568.	4.5	58
5	Energy price prediction using data-driven models: A decade review. Computer Science Review, 2021, 39, 100356.	10.2	43
6	A multi-objective optimizer-based model for predicting composite material properties. Construction and Building Materials, 2021, 284, 122746.	3.2	19
7	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
8	Hybrid machine learning for pullback force forecasting during horizontal directional drilling. Automation in Construction, 2021, 129, 103810.	4.8	19
9	Novel Data-Driven Framework for Predicting Residual Strength of Corroded Pipelines. Journal of Pipeline Systems Engineering and Practice, 2021, 12, .	0.9	45
10	Impacts of the COVID-19 pandemic on the energy sector. Journal of Zhejiang University: Science A, 2021, 22, 941-956.	1.3	15
11	A hybrid algorithm for carbon dioxide emissions forecasting based on improved lion swarm optimizer. Journal of Cleaner Production, 2020, 244, 118612.	4.6	145
12	US natural gas consumption prediction using an improved kernel-based nonlinear extension of the Arps decline model. Energy, 2020, 194, 116905.	4.5	47
13	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
14	Stress analysis of urban gas pipeline repaired by inserted hose lining method. Composites Part B: Engineering, 2020, 183, 107657.	5.9	25
15	Carbon trading volume and price forecasting in China using multiple machine learning models. Journal of Cleaner Production, 2020, 249, 119386.	4.6	150
16	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
17	Machine learning approaches for estimation of compressive strength of concrete. European Physical Journal Plus, 2020, 135, 1.	1.2	24
18	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

#	Article	IF	Citations
19	Carbon dioxide transport via pipelines: A systematic review. Journal of Cleaner Production, 2020, 266, 121994.	4.6	58
20	A hybrid model for monthly water demand prediction: A case study of Austin, Texas. AWWA Water Science, 2020, 2, e1175.	1.0	5
21	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
22	Application of Artificial Neural Network in Tunnel Engineering: A Systematic Review. IEEE Access, 2020, 8, 119527-119543.	2.6	29
23	Hybrid decision tree-based machine learning models for short-term water quality prediction. Chemosphere, 2020, 249, 126169.	4.2	308
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	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
26	Lake water-level fluctuation forecasting using machine learning models: a systematic review. Environmental Science and Pollution Research, 2020, 27, 44807-44819.	2.7	31
27	Leakage detection techniques for oil and gas pipelines: State-of-the-art. Tunnelling and Underground Space Technology, 2020, 98, 103249.	3.0	139
28	Oil and Gas 4.0 era: A systematic review and outlook. Computers in Industry, 2019, 111, 68-90.	5.7	171
29	Oil and gas companies' low-carbon emission transition to integrated energy companies. Science of the Total Environment, 2019, 686, 1202-1209.	3.9	69
30	Optimization of light hydrocarbon recovery system in condensate gas field. Energy Reports, 2019, 5, 1209-1221.	2.5	6
31	Energy metering for the urban gas system: A case study in China. Energy Reports, 2019, 5, 1261-1269.	2.5	8
32	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
33	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
34	Application of Supergravity Technology in a TEG Dehydration Process for Offshore Platforms. Processes, 2019, 7, 43.	1.3	1
35	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
36	Multi-stage Rankine cycle (MSRC) model for LNG cold-energy power generation system. Energy, 2018, 165, 673-688.	4.5	33

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37	Study on the Effect of Reciprocating Pump Pipeline System Vibration on Oil Transportation Stations. Energies, 2018, 11, 132.	1.6	19
38	Stress Analysis of LNG Storage Tank Outlet Pipes and Flanges. Energies, 2018, 11, 877.	1.6	8
39	Stress Analysis of Suspended Gas Pipeline Segment. Journal of Pipeline Systems Engineering and Practice, 2017, 8, 04017003.	0.9	5
40	L-shaped multihole-buffering oil-feeding process. Advances in Mechanical Engineering, 2017, 9, 168781401770712.	0.8	0
41	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
42	Editorial: A Special Issue on Pipelines in Civil Engineering. Open Civil Engineering Journal, 2016, 10, 132-132.	0.4	0
43	Stress analysis of parallel oil and gas steel pipelines in inclined tunnels. SpringerPlus, 2015, 4, 659.	1.2	6
44	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
45	Numerical Simulation and Structural Optimization of the Inclined Oil/Water Separator. PLoS ONE, 2015, 10, e0124095.	1.1	17
46	Mathematical Model of Leakage during Pressure Tests of Oil and Gas Pipelines. Journal of Pipeline Systems Engineering and Practice, 2015, 6, .	0.9	7
47	Frequency Spectrum Method-Based Stress Analysis for Oil Pipelines in Earthquake Disaster Areas. PLoS ONE, 2015, 10, e0115299.	1.1	11
48	Scaling and Wax Deposit Mechanisms of FRP Oil Pipelines. Asian Journal of Chemistry, 2014, 26, 5574-5578.	0.1	0
49	Suspended Oil Pipeline Stress Sensitivity Analysis. , 2014, , .		1
50	Stress Analysis of the Large Excavation River-Crossing Oil Pipeline. , 2014, , .		0
51	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