Ahmed Salih Mohammed

List of Publications by Year
in descending order

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135 papers	4,381 citations	87723 38 h-index	161609 54 g-index
139 all docs	139 docs citations	139 times ranked	988 citing authors

#	Article	IF	Citations
1	Hyperbolic rheological model with shear stress limit for acrylamide polymer modified bentonite drilling muds. Journal of Petroleum Science and Engineering, 2014, 122, 38-47.	2.1	134
2	Compressive Strength of Sustainable Geopolymer Concrete Composites: A State-of-the-Art Review. Sustainability, 2021, 13, 13502.	1.6	122
3	Smart cement modified with iron oxide nanoparticles to enhance the piezoresistive behavior and compressive strength for oil well applications. Smart Materials and Structures, 2015, 24, 125020.	1.8	107
4	TGA, rheological properties with maximum shear stress and compressive strength of cement-based grout modified with polycarboxylate polymers. Construction and Building Materials, 2020, 235, 117534.	3.2	96
5	Effect of nanoclay on the electrical resistivity and rheological properties of smart and sensing bentonite drilling muds. Journal of Petroleum Science and Engineering, 2015, 130, 86-95.	2.1	88
6	Revealing the nature of metakaolin-based concrete materials using artificial intelligence techniques. Construction and Building Materials, 2022, 322, 126500.	3.2	88
7	Compressive and Tensile Behavior of Polymer Treated Sulfate Contaminated CL Soil. Geotechnical and Geological Engineering, 2014, 32, 71-83.	0.8	80
8	Effect of temperature on the rheological properties with shear stress limit of iron oxide nanoparticle modified bentonite drilling muds. Egyptian Journal of Petroleum, 2017, 26, 791-802.	1.2	79
9	Smart cement rheological and piezoresistive behavior for oil well applications. Journal of Petroleum Science and Engineering, 2015, 135, 50-58.	2.1	78
10	Tensile strength prediction of rock material using non-destructive tests: A comparative intelligent study. Transportation Geotechnics, 2021, 31, 100652.	2.0	72
11	Vipulanandan model for the rheological properties with ultimate shear stress of oil well cement modified with nanoclay. Egyptian Journal of Petroleum, 2018, 27, 335-347.	1.2	67
12	Characterizing and Modeling the Mechanical Properties of the Cement Mortar Modified with Fly Ash for Various Water-to-Cement Ratios and Curing Times. Advances in Civil Engineering, 2019, 2019, 1-11.	0.4	65
13	ANN, M5P-tree and nonlinear regression approaches with statistical evaluations to predict the compressive strength of cement-based mortar modified with fly ash. Journal of Materials Research and Technology, 2020, 9, 12416-12427.	2.6	63
14	Systematic multiscale models to predict the compressive strength of fly ash-based geopolymer concrete at various mixture proportions and curing regimes. PLoS ONE, 2021, 16, e0253006.	1.1	62
15	Rubberized geopolymer composites: A comprehensive review. Ceramics International, 2022, 48, 24234-24259.	2.3	62
16	Testing and Modeling the Short-Term Behavior of Lime and Fly Ash Treated Sulfate Contaminated CL Soil. Geotechnical and Geological Engineering, 2015, 33, 1099-1114.	0.8	61
17	Vipulanandan models to predict the electrical resistivity, rheological properties and compressive stress-strain behavior of oil well cement modified with silica nanoparticles. Egyptian Journal of Petroleum, 2018, 27, 1265-1273.	1.2	58
18	Investigation of the effectiveness of CFRP strengthening of concrete made with recycled waste PET fine plastic aggregate. PLoS ONE, 2022, 17, e0269664.	1.1	57

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19	A new auto-tuning model for predicting the rock fragmentation: a cat swarm optimization algorithm. Engineering With Computers, 2022, 38, 2209-2220.	3.5	55
20	Statistical Variations and New Correlation Models to Predict the Mechanical Behavior and Ultimate Shear Strength of Gypsum Rock. Open Engineering, 2018, 8, 213-226.	0.7	53
21	Effect of Varying Steel Fiber Content on Strength and Permeability Characteristics of High Strength Concrete with Micro Silica. Materials, 2020, 13, 5739.	1.3	53
22	Vipulanandan failure models to predict the tensile strength, compressive modulus, fracture toughness and ultimate shear strength of calcium rocks. International Journal of Geotechnical Engineering, 2021, 15, 129-139.	1.1	53
23	Characterization and modeling the flow behavior and compression strength of the cement paste modified with silica nano-size at different temperature conditions. Construction and Building Materials, 2020, 257, 119590.	3.2	53
24	Soft computing techniques: Systematic multiscale models to predict the compressive strength of HVFA concrete based on mix proportions and curing times. Journal of Building Engineering, 2021, 33, 101851.	1.6	52
25	Rheological Properties of Piezoresistive Smart Cement Slurry Modified With Iron-Oxide Nanoparticles for Oil-Well Applications. Journal of Testing and Evaluation, 2017, 45, 2050-2060.	0.4	52
26	The role of nanomaterials in geopolymer concrete composites: A state-of-the-art review. Journal of Building Engineering, 2022, 49, 104062.	1.6	51
27	Compressive strength of geopolymer concrete composites: a systematic comprehensive review, analysis and modeling. European Journal of Environmental and Civil Engineering, 2023, 27, 1383-1428.	1.0	51
28	Soft computing models to predict the compressive strength of GGBS/FA- geopolymer concrete. PLoS ONE, 2022, 17, e0265846.	1.1	48
29	Viscosity, yield stress and compressive strength of cement-based grout modified with polymers. Results in Materials, 2019, 4, 100043.	0.9	47
30	Data-Driven Compressive Strength Prediction of Fly Ash Concrete Using Ensemble Learner Algorithms. Buildings, 2022, 12, 132.	1.4	47
31	Systemic multi-scale approaches to predict the flowability at various temperature and mechanical properties of cement paste modified with nano-calcium carbonate. Construction and Building Materials, 2020, 262, 120777.	3.2	45
32	Microstructure characterizations, thermal properties, yield stress, plastic viscosity and compression strength of cement paste modified with nanosilica. Journal of Materials Research and Technology, 2020, 9, 10941-10956.	2.6	45
33	Effect of drilling mud bentonite contents on the fluid loss and filter cake formation on a field clay soil formation compared to the API fluid loss method and characterized using Vipulanandan models. Journal of Petroleum Science and Engineering, 2020, 189, 107029.	2.1	45
34	Geopolymer concrete as a cleaner construction material: An overview on materials and structural performances. Cleaner Materials, 2022, 5, 100111.	1.9	45
35	Testing and modeling the young age compressive strength for high workability concrete modified with PCE polymers. Results in Materials, 2019, 1, 100004.	0.9	44
36	Systematic multiscale models to predict the compressive strength of self-compacting concretes modified with nanosilica at different curing ages. Engineering With Computers, 2022, 38, 2365-2388.	3.5	44

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37	Compressive strength of geopolymer concrete modified with nano-silica: Experimental and modeling investigations. Case Studies in Construction Materials, 2022, 16, e01036.	0.8	43
38	Electrical resistivity and rheological properties of sensing bentonite drilling muds modified with lightweight polymer. Egyptian Journal of Petroleum, 2018, 27, 55-63.	1.2	42
39	Smart Cement Compressive Piezoresistive, Stress-Strain, and Strength Behavior with Nanosilica Modification. Journal of Testing and Evaluation, 2019, 47, 1479-1501.	0.4	42
40	Modeling the rheological properties with shear stress limit and compressive strength of ordinary Portland cement modified with polymers. Journal of Building Pathology and Rehabilitation, 2019, 4, 1.	0.7	41
41	Modeling the effect of silica fume on the compressive, tensile strengths and durability of NSC and HSC in various strength ranges. Journal of Building Pathology and Rehabilitation, 2019, 4, 1.	0.7	40
42	A novel systematic and evolved approach based on XGBoost-firefly algorithm to predict Youngâ€™s modulus and unconfined compressive strength of rock. Engineering With Computers, 2022, 38, 3829-3845.	3.5	40
43	Property Correlations and Statistical Variations in the Geotechnical Properties of (CH) Clay Soils. Geotechnical and Geological Engineering, 2018, 36, 267-281.	0.8	39
44	Artificial neural network (ANN), M5P-tree, and regression analyses to predict the early age compression strength of concrete modified with DBC-21 and VK-98 polymers. Neural Computing and Applications, 2021, 33, 7851-7873.	3.2	39
45	Optimal ELMâ€“Harris Hawks Optimization and ELMâ€“Grasshopper Optimization Models to Forecast Peak Particle Velocity Resulting from Mine Blasting. Natural Resources Research, 2021, 30, 2647-2662.	2.2	38
46	Statistical variations and new correlation models to predict the mechanical behaviour of the cement mortar modified with silica fume. Geomechanics and Geoengineering, 2022, 17, 118-130.	0.9	37
47	Recycling of mine tailings for the geopolymers production: A systematic review. Case Studies in Construction Materials, 2022, 16, e00933.	0.8	37
48	Magnetic Field Strength and Temperature Effects on the Behavior of Oil Well Cement Slurry Modified with Iron Oxide Nanoparticles and Quantified with Vipulanandan Models. Journal of Testing and Evaluation, 2020, 48, 4516-4537.	0.4	36
49	Regression analysis and Vipulanandan model to quantify the effect of polymers on the plastic and hardened properties with the tensile bonding strength of the cement mortar. Results in Materials, 2019, 1, 100011.	0.9	35
50	Shear stress limit, rheological properties and compressive strength of cement-based grout modified with polymers. Journal of Building Pathology and Rehabilitation, 2020, 5, 1.	0.7	35
51	Artificial Neural Network and NLR techniques to predict the rheological properties and compression strength of cement past modified with nanoclay. Ain Shams Engineering Journal, 2021, 12, 1313-1328.	3.5	34
52	Proposing several hybrid PSO-extreme learning machine techniques to predict TBM performance. Engineering With Computers, 2022, 38, 3811-3827.	3.5	34
53	Integrating the LSSVM and RBFNN models with three optimization algorithms to predict the soil liquefaction potential. Engineering With Computers, 2022, 38, 3611-3623.	3.5	33
54	New Vipulanandan p-q Model for Particle Size Distribution and Groutability Limits for Sandy Soils. Journal of Testing and Evaluation, 2020, 48, 3695-3712.	0.4	33

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55	Application of Tree-Based Predictive Models to Forecast Air Overpressure Induced by Mine Blasting. Natural Resources Research, 2021, 30, 1865-1887.	2.2	32
56	Systematic multiscale models to predict the effect of high-volume fly ash on the maximum compression stress of cement-based mortar at various water/cement ratios and curing times. Measurement: Journal of the International Measurement Confederation, 2021, 171, 108819.	2.5	32
57	Evaluation the effect of lime on the plastic and hardened properties of cement mortar and quantified using Vipulanandan model. Open Engineering, 2019, 9, 468-480.	0.7	31
58	Modeling Flexural and Compressive Strengths Behaviour of Cement-Grouted Sands Modified with Water Reducer Polymer. Applied Sciences (Switzerland), 2022, 12, 1016.	1.3	31
59	Statistical Methods for Modeling the Compressive Strength of Geopolymer Mortar. Materials, 2022, 15, 1868.	1.3	31
60	Vipulanandan Models to Predict the Mechanical Properties, Fracture Toughness, Pulse Velocity and Ultimate Shear Strength of Shale Rocks. Geotechnical and Geological Engineering, 2019, 37, 625-638.	0.8	30
61	Prediction of Peak Particle Velocity Caused by Blasting through the Combinations of Boosted-CHAID and SVM Models with Various Kernels. Applied Sciences (Switzerland), 2021, 11, 3705.	1.3	29
62	An Evaluation of Turbocharging and Supercharging Options for High-Efficiency Fuel Cell Electric Vehicles. Applied Sciences (Switzerland), 2018, 8, 2474.	1.3	28
63	Hydraulic Conductivity, Grain Size Distribution (GSD) and Cement Injectability Limits Predicted of Sandy Soils Using Vipulanandan Models. Geotechnical and Geological Engineering, 2020, 38, 2139-2158.	0.8	28
64	Estimating the efficiency of the sandy soils-cement based grout interactions from Particle size distribution (PSD). Geomechanics and Geoengineering, 2021, 16, 81-98.	0.9	28
65	Vipulanandan Constitutive Models to Predict the Rheological Properties and Stressâ€“Strain Behavior of Cement Grouts Modified with Metakaolin. Journal of Testing and Evaluation, 2020, 48, 3925-3945.	0.4	28
66	Novel Fuzzy-Based Optimization Approaches for the Prediction of Ultimate Axial Load of Circular Concrete-Filled Steel Tubes. Buildings, 2021, 11, 629.	1.4	28
67	Multivariable models including artificial neural network and M5P-tree to forecast the stress at the failure of alkali-activated concrete at ambient curing condition and various mixture proportions. Neural Computing and Applications, 2022, 34, 17853-17876.	3.2	28
68	New Vipulanandan Failure Model and Property Correlations for Sandstone, Shale and Limestone Rocks. , 2018, , .		27
69	The Effectiveness of Ensemble-Neural Network Techniques to Predict Peak Uplift Resistance of Buried Pipes in Reinforced Sand. Applied Sciences (Switzerland), 2021, 11, 908.	1.3	27
70	Evaluation of Mechanical and Permeability Characteristics of Microfiber-Reinforced Recycled Aggregate Concrete with Different Potential Waste Mineral Admixtures. Materials, 2021, 14, 5933.	1.3	27
71	ANN, M5P-tree model, and nonlinear regression approaches to predict the compression strength of cement-based mortar modified by quicklime at various water/cement ratios and curing times. Arabian Journal of Geosciences, 2020, 13, 1.	0.6	26
72	An evolutionary adaptive neuro-fuzzy inference system for estimating field penetration index of tunnel boring machine in rock mass. Journal of Rock Mechanics and Geotechnical Engineering, 2021, 13, 1290-1299.	3.7	26

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73	The Effects of Rock Index Tests on Prediction of Tensile Strength of Granitic Samples: A Neuro-Fuzzy Intelligent System. Sustainability, 2021, 13, 10541.	1.6	25
74	Electrical resistivity-Compressive strength predictions for normal strength concrete with waste steel slag as a coarse aggregate replacement using various analytical models. Construction and Building Materials, 2022, 327, 127008.	3.2	25
75	Proposing several model techniques including ANN and M5P-tree to predict the compressive strength of geopolymer concretes incorporated with nano-silica. Environmental Science and Pollution Research, 2022, 29, 71232-71256.	2.7	25
76	Theoretical models to evaluate the effect of SiO2 and CaO contents on the long-term compressive strength of cement mortar modified with cement kiln dust (CKD). Archives of Civil and Mechanical Engineering, 2022, 22, 1.	1.9	23
77	A new development of ANFIS-Based Henry gas solubility optimization technique for prediction of soil shear strength. Transportation Geotechnics, 2021, 29, 100579.	2.0	22
78	Effect of Particle Size Distribution of Sand on Mechanical Properties of Cement Mortar Modified with Microsilica. ACI Materials Journal, 2020, 117, .	0.3	22
79	Comprehensive multiscale techniques to estimate the compressive strength of concrete incorporated with carbon nanotubes at various curing times and mix proportions. Journal of Materials Research and Technology, 2021, 15, 6506-6527.	2.6	22
80	A Novel Combination of PCA and Machine Learning Techniques to Select the Most Important Factors for Predicting Tunnel Construction Performance. Buildings, 2022, 12, 919.	1.4	22
81	Geostatistics of strength, modeling and GIS mapping of soil properties for residential purpose for Sulaimani City soils, Kurdistan Region, Iraq. Modeling Earth Systems and Environment, 2020, 6, 879-893.	1.9	21
82	Improving the performance of LSSVM model in predicting the safety factor for circular failure slope through optimization algorithms. Engineering With Computers, 2022, 38, 1755-1766.	3.5	21
83	The influence of normal curing temperature on the compressive strength development and flexural tensile behaviour of UHPFRC with vipulanandan model quantification. Structures, 2021, 30, 949-959.	1.7	21
84	XRD and TGA, Swelling and Compacted Properties of Polymer Treated Sulfate Contaminated CL Soil. Journal of Testing and Evaluation, 2016, 44, 2270-2284.	0.4	21
85	Use of the Gene-Expression Programming Equation and FEM for the High-Strength CFST Columns. Applied Sciences (Switzerland), 2021, 11, 10468.	1.3	21
86	Interpreting the experimental results of compressive strength of hand-mixed cement-grouted sands using various mathematical approaches. Archives of Civil and Mechanical Engineering, 2022, 22, 1.	1.9	21
87	Stacking Ensemble Tree Models to Predict Energy Performance in Residential Buildings. Sustainability, 2021, 13, 8298.	1.6	20
88	Surrogate Models to Predict the Long-Term Compressive Strength of Cement-Based Mortar Modified with Fly Ash. Archives of Computational Methods in Engineering, 2022, 29, 4187-4212.	6.0	20
89	Mix design of concrete: Advanced particle packing model by developing and combining multiple frameworks. Construction and Building Materials, 2022, 320, 126218.	3.2	19
90	Intelligent prediction of rock mass deformation modulus through three optimized cascaded forward neural network models. Earth Science Informatics, 2022, 15, 1659-1669.	1.6	19

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91	Optimized Support Vector Machines Combined with Evolutionary Random Forest for Prediction of Back-Break Caused by Blasting Operation. Sustainability, 2021, 13, 12797.	1.6	18
92	Implementation of multi-expression programming (MEP), artificial neural network (ANN), and M5P-tree to forecast the compression strength cement-based mortar modified by calcium hydroxide at different mix proportions and curing ages. Innovative Infrastructure Solutions, 2022, 7, 1.	1.1	18
93	Multiple Analytical Models to Evaluate the Impact of Carbon Nanotubes on the Electrical Resistivity and Compressive Strength of the Cement Paste. Sustainability, 2021, 13, 12544.	1.6	17
94	Microstructure, chemical compositions, and soft computing models to evaluate the influence of silicon dioxide and calcium oxide on the compressive strength of cement mortar modified with cement kiln dust. Construction and Building Materials, 2022, 341, 127668.	3.2	17
95	Electrical conductivity, microstructures, chemical compositions, and systematic multivariable models to evaluate the effect of waste slag smelting (pyrometallurgical) on the compressive strength of concrete. Environmental Science and Pollution Research, 2022, 29, 68488-68521.	2.7	16
96	Factors Influencing Pile Friction Bearing Capacity: Proposing a Novel Procedure Based on Gradient Boosted Tree Technique. Sustainability, 2021, 13, 11862.	1.6	15
97	Quantification the effect of microsand on the compressive, tensile, flexural strengths, and modulus of elasticity of normal strength concrete. Geomechanics and Geoengineering, 2021, 16, 478-496.	0.9	14
98	Enhancing the Fresh and Hardened Properties of the Early Age Concrete Modified with Powder Polymers and Characterized Using Different Models. Advances in Civil Engineering Materials, 2020, 9, 227-249.	0.2	14
99	ArcGIS mapping, characterisations and modelling the physical and mechanical properties of the Sulaimani City soils, Kurdistan Region, Iraq. Geomechanics and Geoengineering, 2022, 17, 384-397.	0.9	13
100	Comparison Between Two Nonlinear Models to Predict the Stressâ€“Strain Behavior, Modulus of Elasticity, and Toughness of the Flowable Cement Paste. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2022, 46, 2131-2145.	1.0	13
101	Characterization and modeling of long-term stressâ€“strain behavior of water confined pre-saturated gypsum rock in Kurdistan Region, Iraq. Journal of Rock Mechanics and Geotechnical Engineering, 2017, 9, 741-748.	3.7	12
102	Model Technics to Predict the Impact of the Particle Size Distribution (PSD) of the Sand on the Mechanical Properties of the Cement Mortar Modified with Fly Ash. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2021, 45, 1657-1684.	1.0	12
103	Comparison of artificial neural network (ANN) and linear regression modeling with residual errors to predict the unconfined compressive strength and compression index for Erbil City soils, Kurdistan-Iraq. Arabian Journal of Geosciences, 2021, 14, 1.	0.6	12
104	The Characterization and Modeling the Mechanical Properties of High Strength Concrete (HSC) Modified with Fly Ash (FA). Engineering and Technology Journal, 2020, 38, 173-184.	0.4	12
105	Performance of ANN and M5P-tree to forecast the compressive strength of hand-mix cement-grouted sands modified with polymer using ASTM and BS standards and evaluate the outcomes using SI with OBJ assessments. Neural Computing and Applications, 2022, 34, 15031-15051.	3.2	12
106	Zero fluid loss, sensitivity and rheological properties of clay bentonite (WBM) modified with nanoclay quantified using Vipulanandan models. Upstream Oil and Gas Technology, 2020, 5, 100012.	1.1	10
107	Multivariable models to forecast the mechanical properties of polymerized cement paste. Journal of Materials Research and Technology, 2021, 14, 2677-2699.	2.6	10
108	Multiscale Approaches Including ANN and M5P-Tree with SI and OBJ Assessment Tools to Predict the Shear Thinning of Bentonite Drilling Muds Modified with Clay Nanosize at Various Elevated Temperatures. International Journal of Geomechanics, 2022, 22, .	1.3	10

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109	Testing and Evaluation of Flowability, Viscosity and Long-Term Compressive Strength of Cement Modified with Polymeric Admixture WR Superplasticizer. IOP Conference Series: Materials Science and Engineering, 2020, 737, 012066.	0.3	9
110	Experimental study using ASTM and BS standards and model evaluations to predict the compressive strength of the cement grouted sands modified with polymer. Case Studies in Construction Materials, 2021, 15, e00600.	0.8	9
111	Systematic Multiscale Models to Predict the Compressive Strength of Cement Paste as a Function of Microsilica and Nanosilica Contents, Water/Cement Ratio, and Curing Ages. Sustainability, 2022, 14, 1723.	1.6	9
112	Microstructure and chemical characterizations with soft computing models to evaluate the influence of calcium oxide and silicon dioxide in the fly ash and cement kiln dust on the compressive strength of cement mortar. Resources, Conservation & Recycling Advances, 2022, 15, 200090.	1.1	9
113	Predicting Rock Brittleness Using a Robust Evolutionary Programming Paradigm and Regression-Based Feature Selection Model. Applied Sciences (Switzerland), 2022, 12, 7101.	1.3	9
114	Predicting mechanical properties and ultimate shear strength of gypsum, limestone and sandstone rocks using Vipulanandan models. Geomechanics and Geoengineering, 2020, 15, 90-106.	0.9	8
115	Characterizing the Index Properties, Free Swelling, Stressâ€“Strain Relationship, Strength and Compacted Properties of Polymer Treated Expansive CH Clay Soil Using Vipulanandan Models. Geotechnical and Geological Engineering, 2020, 38, 5589-5602.	0.8	8
116	Clay Nanosize Effects on the Rheological Behavior at Various Elevated Temperatures and Mechanical Properties of the Cement Paste: Experimental and Modeling. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2022, 46, 819-842.	1.0	8
117	Modeling and Statistical Evaluations of Unconfined Compressive Strength and Compression Index of the Clay Soils at Various Ranges of Liquid Limit. Journal of Testing and Evaluation, 2022, 50, 551-569.	0.4	8
118	Nonlinear models to predict stress versus strain of early age strength of flowable ordinary Portland cement. European Journal of Environmental and Civil Engineering, 2022, 26, 8433-8457.	1.0	8
119	Estimation of Blast-Induced Peak Particle Velocity through the Improved Weighted Random Forest Technique. Applied Sciences (Switzerland), 2022, 12, 5019.	1.3	8
120	Green Synthesis Magnetite (Feâ‚ƒOâ‚„) Nanoparticles From Rhus coriaria Extract: A Characteristic Comparison With a Conventional Chemical Method. IEEE Transactions on Nanobioscience, 2023, 22, 308-317.	2.2	8
121	Various simulation techniques to predict the compressive strength of cement-based mortar modified with micro-sand at different water-to-cement ratios and curing ages. Arabian Journal of Geosciences, 2021, 14, 1.	0.6	7
122	Predicting the chemical and mechanical properties of gypseous soils using different simulation technics. Acta Geotechnica, 2022, 17, 1111-1127.	2.9	7
123	Property Correlations and Statistical Variations in the Geotechnical Properties of (CH) Clay Soils. Geotechnical and Geological Engineering, 2024, 42, 843-858.	0.8	6
124	3-dimension stresses and new failure model to predict behavior of clay soils in various liquid limit ranges. Arabian Journal of Geosciences, 2021, 14, 1.	0.6	6
125	Testing and Modeling the Gradually ApplyingÂCompressive StressÂto Measuring the Strain of Self-Compacted Cement Paste UsingÂVipulanandan p-q Model. Journal of Testing and Evaluation, 2022, 50, 1604-1621.	0.4	6
126	Modeling The Behaviour of Chemical Resistant Concrete Modified with Fly Ash under Different Ph Environments. The Journal of the University of Duhok, 2020, 23, 15-30.	0.0	5

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127	A parametric study of ground vibration induced by quarry blasting: an application of group method of data handling. Environmental Earth Sciences, 2022, 81, 1.	1.3	5
128	Quantify the effect of temperature on the electrical resistivity, yield stress, and HPHT fluid loss of the bentonite-clay drilling mud modified with acrylamide polymer. Journal of Building Pathology and Rehabilitation, 2020, 5, 1.	0.7	4
129	Different model approaches with residual errors to predict the short and long-terms fluid loss and rheological properties of clay bentonite modified with nano-montmorillonite. Geomechanics and Geoengineering, 2022, 17, 751-764.	0.9	4
130	Forecasting the mechanical properties of soilcrete using various simulation approaches. Structures, 2021, 34, 653-665.	1.7	4
131	Evaluation and nonlinear quantification of early age strength of concrete containing PCE polymer. IOP Conference Series: Materials Science and Engineering, 0, 737, 012061.	0.3	3
132	Steady State Testing of an Organic Rankine Cycle Designed for Exhaust Heat Recovery Applications in Truck Engines. International Journal of Sustainable and Green Energy, 2021, 10, 7.	0.5	2
133	Vipulanandan pâ€“q model to predict compressive, tensile strengths and swelling of CaSO4 contaminated high plasticity clay modified with polymer. Journal of Building Pathology and Rehabilitation, 2020, 5, 1.	0.7	1
134	Comparison between Mohr-Coulomb failure criterion and Vipulanandan failure models to predict the maximum J_2 Invariant and behaviour of clay (CH). Geomechanics and Geoengineering, 2022, 17, 1905-1922.	0.9	1
135	Vipulanandan pâ€“q model to predict the effect of pressurised water on the strengths of gypsum rock in Kurdistan Region, Iraq. Geotechnical Research, 2019, 6, 78-90.	0.8	0