Chongshi Gu

List of Publications by Year
in descending order

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87 papers	1,676 citations	304743 22 h-index	330143 37 g-index
87 all docs	87 docs citations	87 times ranked	751 citing authors

#	Article	IF	Citations
1	Durability study on engineered cementitious composites (ECC) under sulfate and chloride environment. Construction and Building Materials, 2017, 133, 171-181.	7.2	148
2	Statistical model optimized random forest regression model for concrete dam deformation monitoring. Structural Control and Health Monitoring, 2018, 25, e2170.	4.0	122
3	Influence of micro-cracking on the permeability of engineered cementitious composites. Cement and Concrete Composites, 2016, 72, 104-113.	10.7	120
4	Self-healing of microcracks in Engineered Cementitious Composites under sulfate and chloride environment. Construction and Building Materials, 2017, 153, 948-956.	7.2	90
5	A novel model of dam displacement based on panel data. Structural Control and Health Monitoring, 2018, 25, e2037.	4.0	75
6	Prediction, monitoring, and interpretation of dam leakage flow via adaptative kernel extreme learning machine. Measurement: Journal of the International Measurement Confederation, 2020, 166, 108161.	5.0	52
7	Multi-kernel optimized relevance vector machine for probabilistic prediction of concrete dam displacement. Engineering With Computers, 2021, 37, 1943.	6.1	52
8	A Concrete Dam Deformation Prediction Method Based on LSTM With Attention Mechanism. IEEE Access, 2020, 8, 185177-185186.	4.2	41
9	Review on hidden trouble detection and health diagnosis of hydraulic concrete structures. Science in China Series D: Earth Sciences, 2007, 50, 34-50.	0.9	39
10	Prediction of arch dam deformation via correlated multi-target stacking. Applied Mathematical Modelling, 2021, 91, 1175-1193.	4.2	39
11	Hysteretic effect considered monitoring model for interpreting abnormal deformation behavior of arch dams: A case study. Structural Control and Health Monitoring, 2019, 26, e2417.	4.0	38
12	Improved online sequential extreme learning machine for identifying crack behavior in concrete dam. Advances in Structural Engineering, 2019, 22, 402-412.	2.4	36
13	Back analysis of mechanical parameters of roller compacted concrete dam. Science China Technological Sciences, 2010, 53, 848-853.	4.0	35
14	Parameter sensitivity and inversion analysis of a concrete faced rock-fill dam based on HS-BPNN algorithm. Science China Technological Sciences, 2016, 59, 1442-1451.	4.0	29
15	Simulating frictional contact in smoothed particle hydrodynamics. Science China Technological Sciences, 2013, 56, 1779-1789.	4.0	26
16	Failure analysis method of concrete arch dam based on elastic strain energy criterion. Engineering Failure Analysis, 2016, 60, 363-373.	4.0	26
17	Application of Spatiotemporal Hybrid Model of Deformation in Safety Monitoring of High Arch Dams: A Case Study. International Journal of Environmental Research and Public Health, 2020, 17, 319.	2.6	26
18	Performance-improved TSVR-based DHM model of super high arch dams using measured air temperature. Engineering Structures, 2022, 250, 113400.	5.3	26

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19	Concrete Dam Displacement Prediction Based on an ISODATA-GMM Clustering and Random Coefficient Model. Water (Switzerland), 2019, 11, 714.	2.7	25
20	Safety Monitoring Model of a Super-High Concrete Dam by Using RBF Neural Network Coupled with Kernel Principal Component Analysis. Mathematical Problems in Engineering, 2018, 2018, 1-13.	1.1	24
21	Zoned elasticity modulus inversion analysis method of a high arch dam based on unconstrained Lagrange support vector regression (support vector regression arch dam). Engineering With Computers, 2017, 33, 443-456.	6.1	23
22	Two spatial associationâ€“considered mathematical models for diagnosing the long-term balanced relationship and short-term fluctuation of the deformation behaviour of high concrete arch dams. Structural Health Monitoring, 2020, 19, 1421-1439.	7.5	23
23	Displacement monitoring model of concrete dams using the shape feature clusteringâ€based temperature principal component factor. Structural Control and Health Monitoring, 2020, 27, e2603.	4.0	23
24	A novel outlier detection method for monitoring data in dam engineering. Expert Systems With Applications, 2022, 193, 116476.	7.6	22
25	Abnormality diagnosis of cracks in the concrete dam based on dynamical structure mutation. Science China Technological Sciences, 2011, 54, 1930-1939.	4.0	21
26	A plastic damage model for concrete structure cracks with two damage variables. Science China Technological Sciences, 2012, 55, 2971-2980.	4.0	21
27	A Novel Hybrid Decompositionâ€”Ensemble Prediction Model for Dam Deformation. Applied Sciences (Switzerland), 2020, 10, 5700.	2.5	21
28	Singular value diagnosis in dam safety monitoring effect values. Science China Technological Sciences, 2011, 54, 1169-1176.	4.0	20
29	Comprehensive evaluation methods for dam service status. Science China Technological Sciences, 2012, 55, 2300-2312.	4.0	20
30	IDE-MLSSVR-Based Back Analysis Method for Multiple Mechanical Parameters of Concrete Dams. Journal of Structural Engineering, 2020, 146, .	3.4	19
31	Observed displacement data-based identification method of deformation time-varying effect of high concrete dams. Science China Technological Sciences, 2018, 61, 906-915.	4.0	18
32	A Novel Seepage Behavior Prediction and Lag Process Identification Method for Concrete Dams Using HGWO-XGBoost Model. IEEE Access, 2021, 9, 23311-23325.	4.2	18
33	Variable-intercept panel model for deformation zoning of a super-high arch dam. SpringerPlus, 2016, 5, 898.	1.2	15
34	Observed displacement data-based identification method of structural damage in concrete dam. Engineering Failure Analysis, 2016, 66, 202-211.	4.0	15
35	A comprehensive evaluation method for concrete dam health state combined with gray-analytic hierarchy-optimization theory. Structural Health Monitoring, 2022, 21, 250-263.	7.5	15
36	Monitoring indexes of concrete dam based on correlation and discreteness of multi-point displacements. PLoS ONE, 2018, 13, e0200679.	2.5	13

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37	An automatic data process line identification method for dam safety monitoring data outlier detection. Structural Control and Health Monitoring, 2022, 29, .	4.0	13
38	On the correction of the boundary deficiency in SPH for the frictional contact simulation. Science China Technological Sciences, 2014, 57, 86-100.	4.0	12
39	A Data-Driven Approach Based on Multivariate Copulas for Quantitative Risk Assessment of Concrete Dam. Journal of Marine Science and Engineering, 2019, 7, 353.	2.6	12
40	Using the DEMATEL-VIKOR Method in Dam Failure Path Identification. International Journal of Environmental Research and Public Health, 2020, 17, 1480.	2.6	12
41	Structural Safety Monitoring of High Arch Dam Using Improved ABC-BP Model. Mathematical Problems in Engineering, 2016, 2016, 1-9.	1.1	11
42	Application analysis of empirical mode decomposition and phase space reconstruction in dam time-varying characteristic. Science China Technological Sciences, 2010, 53, 1711-1716.	4.0	10
43	Ill-conditioned problems of dam safety monitoring models and their processing methods. Science China Technological Sciences, 2011, 54, 3275-3280.	4.0	10
44	Deformation features of a super-high arch dam structural system. Optik, 2017, 130, 681-695.	2.9	10
45	Zoning Elastic Modulus Inversion for High Arch Dams Based on the PSOGSA-SVM Method. Advances in Civil Engineering, 2019, 2019, 1-13.	0.7	10
46	Vibration feature extraction based on the improved variational mode decomposition and singular spectrum analysis combination algorithm. Advances in Structural Engineering, 2019, 22, 1519-1530.	2.4	10
47	Hydraulic-seasonal-time-based state space model for displacement monitoring of high concrete dams. Transactions of the Institute of Measurement and Control, 2021, 43, 3347-3359.	1.7	10
48	Safety Monitoring Index of High Concrete Gravity Dam Based on Failure Mechanism of Instability. Mathematical Problems in Engineering, 2013, 2013, 1-14.	1.1	9
49	On-line diagnosis method of crack behavior abnormality in concrete dams based on fluctuation of sequential parameter estimates. Science China Technological Sciences, 2015, 58, 415-424.	4.0	9
50	Seepage Comprehensive Evaluation of Concrete Dam Based on Grey Cluster Analysis. Water (Switzerland), 2019, 11, 1499.	2.7	9
51	A Fuzzy Clustering Logic Life Loss Risk Evaluation Model for Dam-Break Floods. Complexity, 2021, 2021, 1-14.	1.6	9
52	Analysis of strain transfer between surface-bonded plastic optical fibers and concrete. Optical Engineering, 2019, 58, 1.	1.0	9
53	A Novel Seepage Safety Monitoring Model of CFRD with Slab Cracks Using Monitoring Data. Mathematical Problems in Engineering, 2020, 2020, 1-13.	1.1	8
54	Abnormality diagnosis of cracks in the concrete based on double crack tip opening displacement criterion. Science China Technological Sciences, 2013, 56, 1915-1928.	4.0	7

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55	Stochastic Inversion Method for Concrete Dams on the Basis of Bayesian Back Analysis Theory. Advances in Civil Engineering, 2019, 2019, 1-13.	0.7	7
56	An Approach Using Adaptive Weighted Least Squares Support Vector Machines Coupled with Modified Ant Lion Optimizer for Dam Deformation Prediction. Mathematical Problems in Engineering, 2020, 2020, 1-23.	1.1	7
57	Prediction for the Settlement of Concrete Face Rockfill Dams Using Optimized LSTM Model via Correlated Monitoring Data. Water (Switzerland), 2022, 14, 2157.	2.7	7
58	Maximum Entropy Method for Operational Loads Feedback Using Concrete Dam Displacement. Entropy, 2015, 17, 2958-2972.	2.2	6
59	Parameter Sensitivity and Inversion Analysis for a Concrete Face Rockfill Dam Based on CS-BPNN. Advances in Civil Engineering, 2019, 2019, 1-17.	0.7	6
60	Integrating the Finite Element Method with a Data-Driven Approach for Dam Displacement Prediction. Advances in Civil Engineering, 2020, 2020, 1-16.	0.7	6
61	Thermodynamically consistent non-local damage formulation for fluid-driven fracture in poro-viscoelastic media. Acta Geotechnica, 0, , .	5.7	6
62	Influence of fractality of fracture surfaces on stress and displacement fields at crack tips. Science in China Series D: Earth Sciences, 2008, 51, 95-100.	0.9	5
63	Dam's risk identification under interval-valued intuitionistic fuzzy environment. Civil Engineering and Environmental Systems, 2015, 32, 351-363.	0.9	5
64	Uncertainty Instability Risk Analysis of High Concrete Arch Dam Abutments. Mathematical Problems in Engineering, 2017, 2017, 1-11.	1.1	5
65	Calculation Methods for the Permeability Coefficient of Concrete Face Rockfill Dam with Cracks. Advances in Civil Engineering, 2019, 2019, 1-13.	0.7	5
66	Inversion Modeling of Dam-Zoning Elasticity Modulus for Heightened Concrete Dam Using ICS-IPSO Algorithm. Mathematical Problems in Engineering, 2019, 2019, 1-13.	1.1	5
67	A Nonlinear Method for Component Separation of Dam Effect Quantities Using Kernel Partial Least Squares and Pseudosamples. Advances in Civil Engineering, 2019, 2019, 1-12.	0.7	5
68	Improve the Model Stability of Damâ€™s Displacement Prediction Using a Numerical-Statistical Combined Model. IEEE Access, 2020, 8, 147482-147493.	4.2	5
69	A new method of estimating the equivalent elastic modulus of RCCD. Science in China Series D: Earth Sciences, 2007, 50, 136-143.	0.9	4
70	Research on early-warning index of the spatial temperature field in concrete dams. SpringerPlus, 2016, 5, 1968.	1.2	4
71	A Spatio-Temporal Dam Deformation Zoning Method Considering Non-Uniform Distribution of Monitoring Information. IEEE Access, 2021, 9, 117615-117628.	4.2	4
72	Processing Method of Missing Data in Dam Safety Monitoring. Mathematical Problems in Engineering, 2021, 2021, 1-12.	1.1	4

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73	Dam risk assistant analysis system design. Science in China Series D: Earth Sciences, 2008, 51, 101-109.	0.9	3
74	Nonparametric Change Point Diagnosis Method of Concrete Dam Crack Behavior Abnormality. Mathematical Problems in Engineering, 2013, 2013, 1-13.	1.1	3
75	Multi-arch dam safety evaluation based on statistical analysis and numerical simulation. Scientific Reports, 2022, 12, .	3.3	3
76	Risk analysis model for landslide mass of high slope in dam area. Science in China Series D: Earth Sciences, 2008, 51, 25-31.	0.9	2
77	Research on stability of the accumulated rock-soil body of reservoir bank under rainfall condition. Science in China Series D: Earth Sciences, 2009, 52, 2528-2535.	0.9	2
78	Application of entropy-based fuzzy matter-element analysis in seepage monitoring of RCC dam. Frontiers of Architecture and Civil Engineering in China, 2011, 5, 105-111.	0.4	2
79	Research on an abnormality diagnosis method of the structural behavior of spatial crack systems in concrete dams. Optik, 2016, 127, 11758-11774.	2.9	2
80	Safety evaluation with observational data and numerical analysis of Langyashan reinforced concrete face rockfill dam. Bulletin of Engineering Geology and the Environment, 2020, 79, 3497-3515.	3.5	2
81	Bootstrap-typed criterion studies of online diagnostic to cracks abnormality of concrete dam. European Journal of Environmental and Civil Engineering, 2016, 20, 737-747.	2.1	1
82	Inverse Analysis of the Partitioning Deformation Modulusof High-Arch Dams Based on Quantum Genetic Algorithm. Advances in Civil Engineering, 2020, 2020, 1-12.	0.7	1
83	A Risk Assessment Model for Dam Combining the Probabilistic and the Nonprobabilistic Methods. Mathematical Problems in Engineering, 2020, 2020, 1-12.	1.1	1
84	Crack-Considered Elastic Net Monitoring Model of Concrete Dam Displacement. Mathematical Problems in Engineering, 2021, 2021, 1-15.	1.1	1
85	AC-IBFGS-Based Inversion Method for Estimating the Quasi-Viscoelastic Parameters of Arch Dams. IEEE Access, 2022, 10, 68151-68160.	4.2	1
86	Analysis of crack stability in concrete dams with chaos optimized neural network. , 2010, , .		0
87	Corrigendum to â€œA Fuzzy Clustering Logic Life Loss Risk Evaluation Model for Dam-Break Floodsâ€• Complexity, 2022, 2022, 1-1.	1.6	0