

# Chongshi Gu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2769535/publications.pdf>

Version: 2024-02-01

87  
papers

1,676  
citations

304368

22  
h-index

329751

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. <i>Construction and Building Materials</i> , 2017, 133, 171-181.	3.2	148
2	Statistical model optimized random forest regression model for concrete dam deformation monitoring. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2170.	1.9	122
3	Influence of micro-cracking on the permeability of engineered cementitious composites. <i>Cement and Concrete Composites</i> , 2016, 72, 104-113.	4.6	120
4	Self-healing of microcracks in Engineered Cementitious Composites under sulfate and chloride environment. <i>Construction and Building Materials</i> , 2017, 153, 948-956.	3.2	90
5	A novel model of dam displacement based on panel data. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2037.	1.9	75
6	Prediction, monitoring, and interpretation of dam leakage flow via adaptative kernel extreme learning machine. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 166, 108161.	2.5	52
7	Multi-kernel optimized relevance vector machine for probabilistic prediction of concrete dam displacement. <i>Engineering With Computers</i> , 2021, 37, 1943.	3.5	52
8	A Concrete Dam Deformation Prediction Method Based on LSTM With Attention Mechanism. <i>IEEE Access</i> , 2020, 8, 185177-185186.	2.6	41
9	Review on hidden trouble detection and health diagnosis of hydraulic concrete structures. <i>Science in China Series D: Earth Sciences</i> , 2007, 50, 34-50.	0.9	39
10	Prediction of arch dam deformation via correlated multi-target stacking. <i>Applied Mathematical Modelling</i> , 2021, 91, 1175-1193.	2.2	39
11	Hysteretic effect considered monitoring model for interpreting abnormal deformation behavior of arch dams: A case study. <i>Structural Control and Health Monitoring</i> , 2019, 26, e2417.	1.9	38
12	Improved online sequential extreme learning machine for identifying crack behavior in concrete dam. <i>Advances in Structural Engineering</i> , 2019, 22, 402-412.	1.2	36
13	Back analysis of mechanical parameters of roller compacted concrete dam. <i>Science China Technological Sciences</i> , 2010, 53, 848-853.	2.0	35
14	Parameter sensitivity and inversion analysis of a concrete faced rock-fill dam based on HS-BPNN algorithm. <i>Science China Technological Sciences</i> , 2016, 59, 1442-1451.	2.0	29
15	Simulating frictional contact in smoothed particle hydrodynamics. <i>Science China Technological Sciences</i> , 2013, 56, 1779-1789.	2.0	26
16	Failure analysis method of concrete arch dam based on elastic strain energy criterion. <i>Engineering Failure Analysis</i> , 2016, 60, 363-373.	1.8	26
17	Application of Spatiotemporal Hybrid Model of Deformation in Safety Monitoring of High Arch Dams: A Case Study. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 319.	1.2	26
18	Performance-improved TSVR-based DHM model of super high arch dams using measured air temperature. <i>Engineering Structures</i> , 2022, 250, 113400.	2.6	26

#	ARTICLE	IF	CITATIONS
19	Concrete Dam Displacement Prediction Based on an ISODATA-GMM Clustering and Random Coefficient Model. <i>Water (Switzerland)</i> , 2019, 11, 714.	1.2	25
20	Safety Monitoring Model of a Super-High Concrete Dam by Using RBF Neural Network Coupled with Kernel Principal Component Analysis. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-13.	0.6	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). <i>Engineering With Computers</i> , 2017, 33, 443-456.	3.5	23
22	Two spatial association“considered mathematical models for diagnosing the long-term balanced relationship and short-term fluctuation of the deformation behaviour of high concrete arch dams. <i>Structural Health Monitoring</i> , 2020, 19, 1421-1439.	4.3	23
23	Displacement monitoring model of concrete dams using the shape feature clustering“based temperature principal component factor. <i>Structural Control and Health Monitoring</i> , 2020, 27, e2603.	1.9	23
24	A novel outlier detection method for monitoring data in dam engineering. <i>Expert Systems With Applications</i> , 2022, 193, 116476.	4.4	22
25	Abnormality diagnosis of cracks in the concrete dam based on dynamical structure mutation. <i>Science China Technological Sciences</i> , 2011, 54, 1930-1939.	2.0	21
26	A plastic damage model for concrete structure cracks with two damage variables. <i>Science China Technological Sciences</i> , 2012, 55, 2971-2980.	2.0	21
27	A Novel Hybrid Decomposition“Ensemble Prediction Model for Dam Deformation. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5700.	1.3	21
28	Singular value diagnosis in dam safety monitoring effect values. <i>Science China Technological Sciences</i> , 2011, 54, 1169-1176.	2.0	20
29	Comprehensive evaluation methods for dam service status. <i>Science China Technological Sciences</i> , 2012, 55, 2300-2312.	2.0	20
30	IDE-MLSSVR-Based Back Analysis Method for Multiple Mechanical Parameters of Concrete Dams. <i>Journal of Structural Engineering</i> , 2020, 146, .	1.7	19
31	Observed displacement data-based identification method of deformation time-varying effect of high concrete dams. <i>Science China Technological Sciences</i> , 2018, 61, 906-915.	2.0	18
32	A Novel Seepage Behavior Prediction and Lag Process Identification Method for Concrete Dams Using HGWO-XGBoost Model. <i>IEEE Access</i> , 2021, 9, 23311-23325.	2.6	18
33	Variable-intercept panel model for deformation zoning of a super-high arch dam. <i>SpringerPlus</i> , 2016, 5, 898.	1.2	15
34	Observed displacement data-based identification method of structural damage in concrete dam. <i>Engineering Failure Analysis</i> , 2016, 66, 202-211.	1.8	15
35	A comprehensive evaluation method for concrete dam health state combined with gray-analytic hierarchy-optimization theory. <i>Structural Health Monitoring</i> , 2022, 21, 250-263.	4.3	15
36	Monitoring indexes of concrete dam based on correlation and discreteness of multi-point displacements. <i>PLoS ONE</i> , 2018, 13, e0200679.	1.1	13

#	ARTICLE	IF	CITATIONS
37	An automatic data process line identification method for dam safety monitoring data outlier detection. <i>Structural Control and Health Monitoring</i> , 2022, 29, .	1.9	13
38	On the correction of the boundary deficiency in SPH for the frictional contact simulation. <i>Science China Technological Sciences</i> , 2014, 57, 86-100.	2.0	12
39	A Data-Driven Approach Based on Multivariate Copulas for Quantitative Risk Assessment of Concrete Dam. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 353.	1.2	12
40	Using the DEMATEL-VIKOR Method in Dam Failure Path Identification. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 1480.	1.2	12
41	Structural Safety Monitoring of High Arch Dam Using Improved ABC-BP Model. <i>Mathematical Problems in Engineering</i> , 2016, 2016, 1-9.	0.6	11
42	Application analysis of empirical mode decomposition and phase space reconstruction in dam time-varying characteristic. <i>Science China Technological Sciences</i> , 2010, 53, 1711-1716.	2.0	10
43	Ill-conditioned problems of dam safety monitoring models and their processing methods. <i>Science China Technological Sciences</i> , 2011, 54, 3275-3280.	2.0	10
44	Deformation features of a super-high arch dam structural system. <i>Optik</i> , 2017, 130, 681-695.	1.4	10
45	Zoning Elastic Modulus Inversion for High Arch Dams Based on the PSO-GSA-SVM Method. <i>Advances in Civil Engineering</i> , 2019, 2019, 1-13.	0.4	10
46	Vibration feature extraction based on the improved variational mode decomposition and singular spectrum analysis combination algorithm. <i>Advances in Structural Engineering</i> , 2019, 22, 1519-1530.	1.2	10
47	Hydraulic-seasonal-time-based state space model for displacement monitoring of high concrete dams. <i>Transactions of the Institute of Measurement and Control</i> , 2021, 43, 3347-3359.	1.1	10
48	Safety Monitoring Index of High Concrete Gravity Dam Based on Failure Mechanism of Instability. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-14.	0.6	9
49	On-line diagnosis method of crack behavior abnormality in concrete dams based on fluctuation of sequential parameter estimates. <i>Science China Technological Sciences</i> , 2015, 58, 415-424.	2.0	9
50	Seepage Comprehensive Evaluation of Concrete Dam Based on Grey Cluster Analysis. <i>Water (Switzerland)</i> , 2019, 11, 1499.	1.2	9
51	A Fuzzy Clustering Logic Life Loss Risk Evaluation Model for Dam-Break Floods. <i>Complexity</i> , 2021, 2021, 1-14.	0.9	9
52	Analysis of strain transfer between surface-bonded plastic optical fibers and concrete. <i>Optical Engineering</i> , 2019, 58, 1.	0.5	9
53	A Novel Seepage Safety Monitoring Model of CFRD with Slab Cracks Using Monitoring Data. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-13.	0.6	8
54	Abnormality diagnosis of cracks in the concrete based on double crack tip opening displacement criterion. <i>Science China Technological Sciences</i> , 2013, 56, 1915-1928.	2.0	7

#	ARTICLE	IF	CITATIONS
55	Stochastic Inversion Method for Concrete Dams on the Basis of Bayesian Back Analysis Theory. <i>Advances in Civil Engineering</i> , 2019, 2019, 1-13.	0.4	7
56	An Approach Using Adaptive Weighted Least Squares Support Vector Machines Coupled with Modified Ant Lion Optimizer for Dam Deformation Prediction. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-23.	0.6	7
57	Prediction for the Settlement of Concrete Face Rockfill Dams Using Optimized LSTM Model via Correlated Monitoring Data. <i>Water (Switzerland)</i> , 2022, 14, 2157.	1.2	7
58	Maximum Entropy Method for Operational Loads Feedback Using Concrete Dam Displacement. <i>Entropy</i> , 2015, 17, 2958-2972.	1.1	6
59	Parameter Sensitivity and Inversion Analysis for a Concrete Face Rockfill Dam Based on CS-BPNN. <i>Advances in Civil Engineering</i> , 2019, 2019, 1-17.	0.4	6
60	Integrating the Finite Element Method with a Data-Driven Approach for Dam Displacement Prediction. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-16.	0.4	6
61	Thermodynamically consistent non-local damage formulation for fluid-driven fracture in poro-viscoelastic media. <i>Acta Geotechnica</i> , 0, , .	2.9	6
62	Influence of fractality of fracture surfaces on stress and displacement fields at crack tips. <i>Science in China Series D: Earth Sciences</i> , 2008, 51, 95-100.	0.9	5
63	Dam's risk identification under interval-valued intuitionistic fuzzy environment. <i>Civil Engineering and Environmental Systems</i> , 2015, 32, 351-363.	0.4	5
64	Uncertainty Instability Risk Analysis of High Concrete Arch Dam Abutments. <i>Mathematical Problems in Engineering</i> , 2017, 2017, 1-11.	0.6	5
65	Calculation Methods for the Permeability Coefficient of Concrete Face Rockfill Dam with Cracks. <i>Advances in Civil Engineering</i> , 2019, 2019, 1-13.	0.4	5
66	Inversion Modeling of Dam-Zoning Elasticity Modulus for Heightened Concrete Dam Using ICS-IPSO Algorithm. <i>Mathematical Problems in Engineering</i> , 2019, 2019, 1-13.	0.6	5
67	A Nonlinear Method for Component Separation of Dam Effect Quantities Using Kernel Partial Least Squares and Pseudosamples. <i>Advances in Civil Engineering</i> , 2019, 2019, 1-12.	0.4	5
68	Improve the Model Stability of Dam's Displacement Prediction Using a Numerical-Statistical Combined Model. <i>IEEE Access</i> , 2020, 8, 147482-147493.	2.6	5
69	A new method of estimating the equivalent elastic modulus of RCCD. <i>Science in China Series D: Earth Sciences</i> , 2007, 50, 136-143.	0.9	4
70	Research on early-warning index of the spatial temperature field in concrete dams. <i>SpringerPlus</i> , 2016, 5, 1968.	1.2	4
71	A Spatio-Temporal Dam Deformation Zoning Method Considering Non-Uniform Distribution of Monitoring Information. <i>IEEE Access</i> , 2021, 9, 117615-117628.	2.6	4
72	Processing Method of Missing Data in Dam Safety Monitoring. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-12.	0.6	4

#	ARTICLE	IF	CITATIONS
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.	0.6	3
75	Multi-arch dam safety evaluation based on statistical analysis and numerical simulation. Scientific Reports, 2022, 12, .	1.6	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.	1.4	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.	1.6	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.	1.0	1
82	Inverse Analysis of the Partitioning Deformation Modulus of High-Arch Dams Based on Quantum Genetic Algorithm. Advances in Civil Engineering, 2020, 2020, 1-12.	0.4	1
83	A Risk Assessment Model for Dam Combining the Probabilistic and the Nonprobabilistic Methods. Mathematical Problems in Engineering, 2020, 2020, 1-12.	0.6	1
84	Crack-Considered Elastic Net Monitoring Model of Concrete Dam Displacement. Mathematical Problems in Engineering, 2021, 2021, 1-15.	0.6	1
85	AC-IBFGS-Based Inversion Method for Estimating the Quasi-Viscoelastic Parameters of Arch Dams. IEEE Access, 2022, 10, 68151-68160.	2.6	1
86	Analysis of crack stability in concrete dams with chaos optimized neural network. , 2010, , .		0
87	Corrigendum to "A Fuzzy Clustering Logic Life Loss Risk Evaluation Model for Dam-Break Floods": Complexity, 2022, 2022, 1-1.	0.9	0