

Enrico Zio

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

762
papers

18,101
citations

65
h-index

99
g-index

824
ext. papers

22,160
ext. citations

4.3
avg, IF

7.89
L-index

#	Paper	IF	Citations
762	A Modeling and Analysis Framework for Integrated Energy Systems Exposed to Climate Change-Induced NaTech Accidental Scenarios. <i>Sustainability</i> , 2022 , 14, 786	3.6	2
761	A new preventive maintenance strategy optimization model considering lifecycle safety. <i>Reliability Engineering and System Safety</i> , 2022 , 221, 108325	6.3	3
760	A Niching Augmented Evolutionary Algorithm for the Identification of Functional Dependencies in Complex Technical Infrastructures From Alarm Data. <i>IEEE Systems Journal</i> , 2022 , 1-10	4.3	1
759	Optimization of the Operation and Maintenance of renewable energy systems by Deep Reinforcement Learning. <i>Renewable Energy</i> , 2022 , 183, 752-763	8.1	0
758	Robust state-of-charge estimation of Li-ion batteries based on multichannel convolutional and bidirectional recurrent neural networks. <i>Applied Soft Computing Journal</i> , 2022 , 116, 108401	7.5	1
757	A deep reinforcement learning-based method for predictive management of demand response in natural gas pipeline networks. <i>Journal of Cleaner Production</i> , 2022 , 335, 130274	10.3	1
756	Multi-objective availability and cost optimization by PSO and COA for series-parallel systems with subsystems failure dependencies. <i>Microprocessors and Microsystems</i> , 2022 , 89, 104422	2.4	2
755	A method for fault detection in multi-component systems based on sparse autoencoder-based deep neural networks. <i>Reliability Engineering and System Safety</i> , 2022 , 220, 108278	6.3	3
754	A reliability-centered methodology for identifying renovation actions for improving resilience against heat waves in power distribution grids. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 137, 107813	5.1	0
753	A Bayesian Belief Network Model for the Risk Assessment and Management of Premature Screen-Out during Hydraulic Fracturing. <i>Reliability Engineering and System Safety</i> , 2022 , 218, 108094	6.3	1
752	Optimizing generation expansion planning with operational uncertainty: A multistage adaptive robust approach. <i>Applied Energy</i> , 2022 , 306, 118032	10.7	1
751	Long-range dependence and heavy tail characteristics for remaining useful life prediction in rolling bearing degradation. <i>Applied Mathematical Modelling</i> , 2022 , 102, 268-284	4.5	12
750	Prognostics and Health Management (PHM): Where are we and where do we (need to) go in theory and practice. <i>Reliability Engineering and System Safety</i> , 2022 , 218, 108119	6.3	22
749	Prognostics and health management: A review from the perspectives of design, development and decision. <i>Reliability Engineering and System Safety</i> , 2022 , 217, 108063	6.3	15
748	A Simulation-Based Framework for the Adequacy Assessment of Integrated Energy Systems Exposed to Climate Change 2022 , 1-35		1
747	An Angle-Based Bi-Objective Optimization Algorithm for Redundancy Allocation in Presence of Interval Uncertainty. <i>IEEE Transactions on Automation Science and Engineering</i> , 2022 , 1-14	4.9	0
746	A Fault Diagnosis Approach for Electromechanical Actuators with Simulating Model under Small Experimental Data Sample Condition. <i>Actuators</i> , 2022 , 11, 66	2.4	1

745	A general model for life-cycle cost analysis of Condition-Based Maintenance enabled by PHM capabilities. <i>Reliability Engineering and System Safety</i> , 2022 , 108499	6.3	0
744	Parallel density scanned adaptive Kriging to improve local tsunami hazard assessment for coastal infrastructures. <i>Reliability Engineering and System Safety</i> , 2022 , 222, 108441	6.3	
743	Resilience-oriented optimal post-disruption reconfiguration for coupled traffic-power systems. <i>Reliability Engineering and System Safety</i> , 2022 , 222, 108408	6.3	4
742	A method for economic evaluation of predictive maintenance technologies by integrating system dynamics and evolutionary game modelling. <i>Reliability Engineering and System Safety</i> , 2022 , 222, 108424	6.3	2
741	A clustering-based framework for searching vulnerabilities in the operation dynamics of Cyber-Physical Energy Systems. <i>Reliability Engineering and System Safety</i> , 2022 , 222, 108400	6.3	0
740	Passive safety systems analysis: A novel approach for inverse uncertainty quantification based on Stacked Sparse Autoencoders and Kriging metamodeling. <i>Progress in Nuclear Energy</i> , 2022 , 148, 104209	2.3	
739	Data-Driven Optimal Test Selection Design for Fault Detection and Isolation Based on CCVKL Method and PSO. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022 , 71, 1-10	5.2	1
738	Online Bearing Fault Diagnosis Based on Packet Loss Influence-Inspired Retransmission Mechanism. <i>Mathematics</i> , 2022 , 10, 1422	2.3	
737	Machine learning-based models to prioritize scenarios in a Quantitative Risk Analysis: An application to an actual atmospheric distillation unit. <i>Journal of Loss Prevention in the Process Industries</i> , 2022 , 104797	3.5	0
736	A systematic method for the optimization of gas supply reliability in natural gas pipeline network based on Bayesian networks and deep reinforcement learning. <i>Reliability Engineering and System Safety</i> , 2022 , 225, 108613	6.3	2
735	The Contribution of Small Modular Reactors to the Resilience of Power Supply. <i>Journal of Nuclear Engineering</i> , 2022 , 3, 152-162	0.6	1
734	Uncertainty Treatment under Imprecise or Incomplete Knowledge 2022 , 117-134		
733	MatE n process-based simulation of wind speed time series. <i>Energy Conversion and Management</i> , 2022 , 266, 115596	10.6	
732	Multifractional and long-range dependent characteristics for remaining useful life prediction of cracking gas compressor. <i>Reliability Engineering and System Safety</i> , 2022 , 225, 108630	6.3	1
731	Deep Reinforcement Learning Based on Proximal Policy Optimization for the Maintenance of a Wind Farm with Multiple Crews. <i>Energies</i> , 2021 , 14, 6743	3.1	2
730	Development of an integrated dynamic model for supply security and resilience analysis of natural gas pipeline network systems. <i>Petroleum Science</i> , 2021 ,	4.4	2
729	A framework for the resilience analysis of complex natural gas pipeline networks from a cyber-physical system perspective. <i>Computers and Industrial Engineering</i> , 2021 , 162, 107727	6.4	0
728	An Iterative Model of the Generalized Cauchy Process for Predicting the Remaining Useful Life of Lithium-ion Batteries. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021 , 110259	4.6	2

727	A data-driven approach to anomaly detection and vulnerability dynamic analysis for large-scale integrated energy systems. <i>Energy Conversion and Management</i> , 2021 , 234, 113926	10.6	4
726	Fault Diagnosis and Reconfigurable Control for Commercial Aircraft with Multiple Faults and Actuator Saturation. <i>Aerospace</i> , 2021 , 8, 108	2.5	3
725	A physics-informed machine learning framework for predictive maintenance applied to turbomachinery assets. <i>Journal of the Global Power and Propulsion Society</i> , 2021 , 1-15	0.4	3
724	A novel association rule mining method for the identification of rare functional dependencies in Complex Technical Infrastructures from alarm data. <i>Expert Systems With Applications</i> , 2021 , 170, 114560	7.8	7
723	A Simulation-Based Multi-Objective Optimization Framework for the Production Planning in Energy Supply Chains. <i>Energies</i> , 2021 , 14, 2684	3.1	
722	Identification of LOFA precursors in ITER superconducting magnet cryogenic cooling circuit. <i>Reliability Engineering and System Safety</i> , 2021 , 209, 107426	6.3	2
721	Metabolism and difference iterative forecasting model based on long-range dependent and grey for gearbox reliability. <i>ISA Transactions</i> , 2021 ,	5.5	1
720	Optimal Prognostics and Health Management-driven inspection and maintenance strategies for industrial systems. <i>Reliability Engineering and System Safety</i> , 2021 , 210, 107536	6.3	11
719	Bootstrapped Ensemble of Artificial Neural Networks Technique for Quantifying Uncertainty in Prediction of Wind Energy Production. <i>Sustainability</i> , 2021 , 13, 6417	3.6	2
718	Resilience Assessment and Importance Measure for Interdependent Critical Infrastructures. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering</i> , 2021 , 7,	1.4	2
717	Multi-State Reliability Assessment Model of Base-Load Cyber-Physical Energy Systems (CPES) during Flexible Operation Considering the Aging of Cyber Components. <i>Energies</i> , 2021 , 14, 3241	3.1	2
716	A Two-Stage Stochastic Programming Model of Component Test Plan and Redundancy Allocation for System Reliability Optimization. <i>IEEE Transactions on Reliability</i> , 2021 , 70, 99-109	4.6	6
715	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 22, 142-155	6.1	35
714	Resilient Critical Infrastructure Planning Under Disruptions Considering Recovery Scheduling. <i>IEEE Transactions on Engineering Management</i> , 2021 , 68, 452-466	2.6	10
713	An integrated risk index accounting for epistemic uncertainty in probability risk assessment. <i>Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability</i> , 2021 , 235, 711-728	0.8	
712	A failure mechanism consistency test method for accelerated degradation test. <i>Quality and Reliability Engineering International</i> , 2021 , 37, 464-483	2.6	1
711	Globalization and global risk: How risk analysis needs to be enhanced to be effective in confronting current threats. <i>Reliability Engineering and System Safety</i> , 2021 , 205, 107270	6.3	13
710	Association rules extraction for the identification of functional dependencies in complex technical infrastructures. <i>Reliability Engineering and System Safety</i> , 2021 , 209, 107305	6.3	5

709	A new hybrid model for wind speed forecasting combining long short-term memory neural network, decomposition methods and grey wolf optimizer. <i>Applied Soft Computing Journal</i> , 2021 , 100, 106996	7.5	181
708	A generalized cauchy method for remaining useful life prediction of wind turbine gearboxes. <i>Mechanical Systems and Signal Processing</i> , 2021 , 153, 107471	7.8	30
707	. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-13	5.2	3
706	A method for fault diagnosis in evolving environment using unlabeled data. <i>Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability</i> , 2021 , 235, 33-49	0.8	2
705	Radiation-Induced Degradation Analysis and Reliability Modeling of COTS ADCs for Space-Borne Miniature Fiber-Optic Gyroscopes. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-8	5.2	3
704	The risk of the electrical power grid due to natural hazards and recovery challenge following disasters and record floods: What next? 2021 , 215-238		1
703	Generalized Cauchy difference iterative forecasting model for wind speed based on fractal time series. <i>Nonlinear Dynamics</i> , 2021 , 103, 759-773	5	10
702	An MEWMA-based segmental multivariate hidden Markov model for degradation assessment and prediction. <i>Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability</i> , 2021 , 235, 831-844	0.8	3
701	Online Estimation of Degradation State Under Random Change of Mode. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-11	5.2	
700	Hybrid Discrete Differential Evolution and Deep Q-Network for Multimission Selective Maintenance. <i>IEEE Transactions on Reliability</i> , 2021 , 1-12	4.6	1
699	Optimal sensor positioning on pressurized equipment based on Value of Information. <i>Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability</i> , 2021 , 235, 533-544	0.8	0
698	A Fractional Brownian Motion Model for Forecasting Lost Load and Time Interval Between Power Outages. <i>IEEE Access</i> , 2021 , 9, 6623-6632	3.5	0
697	Ensemble empirical mode decomposition and long short-term memory neural network for multi-step predictions of time series signals in nuclear power plants. <i>Applied Energy</i> , 2021 , 283, 116346	10.7	16
696	Fractional Lévy stable motion with LRD for RUL and reliability analysis of li-ion battery. <i>ISA Transactions</i> , 2021 ,	5.5	2
695	Reliability Assessment of Passive Safety Systems for Nuclear Energy Applications: State-of-the-Art and Open Issues. <i>Energies</i> , 2021 , 14, 4688	3.1	1
694	Failure identification in a nuclear passive safety system by Monte Carlo simulation with adaptive Kriging. <i>Nuclear Engineering and Design</i> , 2021 , 380, 111308	1.8	6
693	Data-driven reliability assessment method of Integrated Energy Systems based on probabilistic deep learning and Gaussian mixture Model-Hidden Markov Model. <i>Renewable Energy</i> , 2021 , 174, 952-970	8.1	8
692	Novel efficient method for structural reliability analysis using hybrid nonlinear conjugate map-based support vector regression. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 381, 113818	5.7	10

691	A Bayesian framework of inverse uncertainty quantification with principal component analysis and Kriging for the reliability analysis of passive safety systems. <i>Nuclear Engineering and Design</i> , 2021 , 379, 111230	1.8	5
690	Metamodeling and On-Line Clustering for Loss-of-Flow Accident Precursors Identification in a Superconducting Magnet Cryogenic Cooling Circuit. <i>Energies</i> , 2021 , 14, 5552	3.1	0
689	. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 3901-3913	10.7	2
688	Identification of Critical Components in the Complex Technical Infrastructure of the Large Hadron Collider Using Relief Feature Ranking and Support Vector Machines. <i>Energies</i> , 2021 , 14, 6000	3.1	0
687	An integrated, systematic data-driven supply-demand side management method for smart integrated energy systems. <i>Energy</i> , 2021 , 235, 121416	7.9	7
686	An optimization framework for opportunistic planning of preventive maintenance activities. <i>Reliability Engineering and System Safety</i> , 2021 , 215, 107801	6.3	6
685	A Hierarchical Resilience Enhancement Framework for Interdependent Critical Infrastructures. <i>Reliability Engineering and System Safety</i> , 2021 , 215, 107868	6.3	14
684	Gaussian Fields for Predicting Drift of Oil and Gas Pipes. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2021 , 12, 04021047	1.5	0
683	Accounting for Safety Barriers Degradation in the Risk Assessment of Oil and Gas Systems by Multistate Bayesian Networks. <i>Reliability Engineering and System Safety</i> , 2021 , 216, 107943	6.3	6
682	Product technical life prediction based on multi-modes and fractional Lévy stable motion. <i>Mechanical Systems and Signal Processing</i> , 2021 , 161, 107974	7.8	10
681	A multi-criteria model for the security assessment of large-infrastructure construction sites. <i>International Journal of Critical Infrastructure Protection</i> , 2021 , 35, 100460	4.1	1
680	A Framework based on Finite Mixture Models and Adaptive Kriging for Characterizing Non-Smooth and Multimodal Failure Regions in a Nuclear Passive Safety System. <i>Reliability Engineering and System Safety</i> , 2021 , 216, 107963	6.3	2
679	Governance of Smart Energy Systems 2021 , 1-20		
678	A Modeling Framework for the Analysis of Integrated Energy Systems Exposed to NaTech Events Induced by Climate Change 2021 ,		1
677	Quantification of Uncertainty in CFD Simulation of Accidental Gas Release for O & G Quantitative Risk Assessment. <i>Energies</i> , 2021 , 14, 8117	3.1	2
676	A Feature Selection-based Approach for the Identification of Critical Components in Complex Technical Infrastructures: Application to the CERN Large Hadron Collider. <i>Reliability Engineering and System Safety</i> , 2020 , 201, 106974	6.3	1
675	Integrated deterministic and probabilistic safety assessment of a superconducting magnet cryogenic cooling circuit for nuclear fusion applications. <i>Reliability Engineering and System Safety</i> , 2020 , 201, 106945	6.3	5
674	Considering the human operator cognitive process for the interpretation of diagnostic outcomes related to component failures and cyber security attacks. <i>Reliability Engineering and System Safety</i> , 2020 , 202, 107007	6.3	4

673	Bayesian Network Modelling for the Wind Energy Industry: An Overview. <i>Reliability Engineering and System Safety</i> , 2020 , 202, 107053	6.3	33
672	Prediction of CoVid-19 infection, transmission and recovery rates: A new analysis and global societal comparisons. <i>Safety Science</i> , 2020 , 129, 104854	5.8	7
671	An extended method for evaluating assumptions deviations in quantitative risk assessment and its application to external flooding risk assessment of a nuclear power plant. <i>Reliability Engineering and System Safety</i> , 2020 , 200, 106947	6.3	5
670	A systematic method for the analysis of energy supply reliability in complex Integrated Energy Systems considering uncertainties of renewable energies, demands and operations. <i>Journal of Cleaner Production</i> , 2020 , 267, 122117	10.3	24
669	Analysing Recovery From Pandemics by Learning Theory: The Case of CoVid-19. <i>IEEE Access</i> , 2020 , 8, 110789-110795	3.5	9
668	Addendum: Termite, M.R. et al. A Never-Ending Learning Method for Fault Diagnostics in Energy Systems Operating in Evolving Environments. <i>Energies</i> 2019, 12, 4802. <i>Energies</i> , 2020 , 13, 399	3.1	
667	Industrial equipment reliability estimation: A Bayesian Weibull regression model with covariate selection. <i>Reliability Engineering and System Safety</i> , 2020 , 200, 106891	6.3	6
666	Spectral Kurtosis of ChoiWilliams Distribution and Hidden Markov Model for Gearbox Fault Diagnosis. <i>Symmetry</i> , 2020 , 12, 285	2.7	5
665	Partially observable Markov decision processes for optimal operations of gas transmission networks. <i>Reliability Engineering and System Safety</i> , 2020 , 199, 106893	6.3	8
664	A novel method for maintenance record clustering and its application to a case study of maintenance optimization. <i>Reliability Engineering and System Safety</i> , 2020 , 203, 107103	6.3	9
663	Joint optimization of safety barriers for enhancing business continuity of nuclear power plants against steam generator tube ruptures accidents. <i>Reliability Engineering and System Safety</i> , 2020 , 202, 107067	6.3	3
662	Fractional ARIMA with an improved cuckoo search optimization for the efficient Short-term power load forecasting. <i>AEJ - Alexandria Engineering Journal</i> , 2020 , 59, 3111-3118	6.1	19
661	Probabilistic-based combined high and low cycle fatigue assessment for turbine blades using a substructure-based kriging surrogate model. <i>Aerospace Science and Technology</i> , 2020 , 104, 105957	4.9	12
660	Multifractional Brownian Motion and Quantum-Behaved Partial Swarm Optimization for Bearing Degradation Forecasting. <i>Complexity</i> , 2020 , 2020, 1-9	1.6	15
659	An efficient method of key parameter screening for PCCS under SLB accident in AP1000. <i>Progress in Nuclear Energy</i> , 2020 , 122, 103283	2.3	2
658	An integrated reliability approach with improved importance sampling for low-cycle fatigue damage prediction of turbine disks. <i>Reliability Engineering and System Safety</i> , 2020 , 199, 106819	6.3	17
657	Accounting for Uncertainties of Magnitude- and Site-Related Parameters on Neural Network-Computed Ground-Motion Prediction Equations. <i>Bulletin of the Seismological Society of America</i> , 2020 , 110, 629-646	2.3	3
656	Cost minimization of repairable systems subject to availability constraints using efficient cuckoo optimization algorithm. <i>Quality and Reliability Engineering International</i> , 2020 , 36, 1098-1110	2.6	9

655	A practical approach for evaluating the strength of knowledge supporting risk assessment models. <i>Safety Science</i> , 2020 , 124, 104596	5.8	3
654	An efficient method for passive safety systems reliability assessment. <i>Annals of Nuclear Energy</i> , 2020 , 141, 107347	1.7	1
653	Remaining useful life prediction using multi-scale deep convolutional neural network. <i>Applied Soft Computing Journal</i> , 2020 , 89, 106113	7.5	56
652	Fractional Lévy stable motion: Finite difference iterative forecasting model. <i>Chaos, Solitons and Fractals</i> , 2020 , 133, 109632	9.3	22
651	Remaining useful life prediction for Lithium-ion batteries using fractional Brownian motion and Fruit-fly Optimization Algorithm. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020 , 161, 107904	4.6	41
650	Mixed Stochastic Process Modelling for Accelerated Degradation Testing. <i>IFAC-PapersOnLine</i> , 2020 , 53, 796-801	0.7	0
649	Deep Reinforcement Learning for Optimizing Operation and Maintenance of Energy Systems Equipped with PHM Capabilities 2020 ,		2
648	Review on Health Indices Extraction and Trend Modeling for Remaining Useful Life Estimation 2020 , 183-223		8
647	A long-term prediction approach based on long short-term memory neural networks with automatic parameter optimization by Tree-structured Parzen Estimator and applied to time-series data of NPP steam generators. <i>Applied Soft Computing Journal</i> , 2020 , 89, 106116	7.5	24
646	System reliability-redundancy optimization with cold-standby strategy by an enhanced nest cuckoo optimization algorithm. <i>Reliability Engineering and System Safety</i> , 2020 , 201, 106973	6.3	27
645	A new Markov-based model for reliability optimization problems with mixed redundancy strategy. <i>Reliability Engineering and System Safety</i> , 2020 , 201, 106987	6.3	20
644	Identification of Protective Actions to Reduce the Vulnerability of Safety-Critical Systems to Malevolent Intentional Acts: An Optimization-Based Decision-Making Approach. <i>Risk Analysis</i> , 2020 , 40, 565-587	3.9	4
643	Dynamic probabilistic-based LCF damage assessment of turbine blades regarding time-varying multi-physical field loads. <i>Engineering Failure Analysis</i> , 2020 , 108, 104193	3.2	7
642	Fault prognostics by an ensemble of Echo State Networks in presence of event based measurements. <i>Engineering Applications of Artificial Intelligence</i> , 2020 , 87, 103346	7.2	11
641	Cooperative co-evolutionary approach to optimize recovery for improving resilience in multi-communities. <i>Reliability Engineering and System Safety</i> , 2020 , 197, 106800	6.3	4
640	A numerical approach for predicting the remaining useful life of an aviation hydraulic pump based on monitoring abrasive debris generation. <i>Mechanical Systems and Signal Processing</i> , 2020 , 136, 106519	7.8	8
639	Challenges to IoT-Enabled Predictive Maintenance for Industry 4.0. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 4585-4597	10.7	62
638	Vulnerability analysis of critical infrastructure under disruptions: An application to China Railway High-speed. <i>Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability</i> , 2020 , 234, 235-245	0.8	2

637	A data-driven framework for identifying important components in complex systems. <i>Reliability Engineering and System Safety</i> , 2020 , 204, 107197	6.3	6
636	Definition of the data for comprehensiveness in scenario analysis of near-surface nuclear waste repositories. <i>Data in Brief</i> , 2020 , 31, 105780	1.2	2
635	A hierarchical tree-based decision-making approach for assessing the relative trustworthiness of risk assessment models. <i>Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability</i> , 2020 , 234, 748-763	0.8	
634	CoVid-19 Pandemic Trend Modeling and Analysis to Support Resilience Decision-Making. <i>Biology</i> , 2020 , 9,	4.9	3
633	Optimization of an aperiodic sequential inspection and condition-based maintenance policy driven by value of information. <i>Reliability Engineering and System Safety</i> , 2020 , 204, 107133	6.3	18
632	Dynamic Surrogate Modeling for Multistep-ahead Prediction of Multivariate Nonlinear Chemical Processes. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 15634-15655	3.9	7
631	Integrated Deterministic and Probabilistic Safety Analysis of Integrated Energy Systems with bi-directional conversion. <i>Energy</i> , 2020 , 212, 118685	7.9	5
630	Time-dependent reliability-based design optimization considering aleatory and epistemic uncertainties. <i>Structural and Multidisciplinary Optimization</i> , 2020 , 62, 2297-2321	3.6	2
629	A Novel Concept Drift Detection Method for Incremental Learning in Nonstationary Environments. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , 31, 309-320	10.3	24
628	A new framework for multi-hazards risk aggregation. <i>Safety Science</i> , 2020 , 121, 283-302	5.8	8
627	Risk Analysis of Cyber-Physical Systems by GTST-MLD. <i>IEEE Systems Journal</i> , 2020 , 14, 1333-1340	4.3	1
626	A reinforcement learning approach to optimal part flow management for gas turbine maintenance. <i>Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability</i> , 2020 , 234, 52-62	0.8	4
625	Configuration Optimization in Miniature Interferometric Fiber-Optic Gyroscopes for Space Application. <i>IEEE Sensors Journal</i> , 2020 , 20, 7107-7117	4	8
624	Dynamic business continuity assessment using condition monitoring data. <i>International Journal of Disaster Risk Reduction</i> , 2019 , 41, 101334	4.5	5
623	A method for the multi-objective optimization of the operation of natural gas pipeline networks considering supply reliability and operation efficiency. <i>Computers and Chemical Engineering</i> , 2019 , 131, 106584	4	16
622	Analysis of configuration data errors in Communication-based Train Control systems. <i>Simulation Modelling Practice and Theory</i> , 2019 , 96, 101941	3.9	2
621	Resilience of Smart Power Grids to False Pricing Attacks in the Social Network. <i>IEEE Access</i> , 2019 , 7, 80491-80505	3.5	9
620	A modeling and optimization framework for power systems design with operational flexibility and resilience against extreme heat waves and drought events. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 112, 706-719	16.2	31

619	An adaptive particle swarm optimization method for multi-objective system reliability optimization. <i>Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability</i> , 2019 , 233, 990-1001	0.8	13
618	Portfolio decision analysis for risk-based maintenance of gas networks. <i>Journal of Loss Prevention in the Process Industries</i> , 2019 , 60, 269-281	3.5	9
617	Portfolio optimization of safety measures for the prevention of time-dependent accident scenarios. <i>Reliability Engineering and System Safety</i> , 2019 , 190, 106500	6.3	6
616	Identifying resilient-important elements in interdependent critical infrastructures by sensitivity analysis. <i>Reliability Engineering and System Safety</i> , 2019 , 189, 423-434	6.3	10
615	Comprehensiveness of scenarios in the safety assessment of nuclear waste repositories. <i>Reliability Engineering and System Safety</i> , 2019 , 188, 561-573	6.3	11
614	A reinforcement learning framework for optimal operation and maintenance of power grids. <i>Applied Energy</i> , 2019 , 241, 291-301	10.7	72
613	Degradation state mining and identification for railway point machines. <i>Reliability Engineering and System Safety</i> , 2019 , 188, 432-443	6.3	18
612	On-line process monitoring during transient operations using weighted distance Auto Associative Bilateral Kernel Regression. <i>ISA Transactions</i> , 2019 , 92, 191-212	5.5	3
611	Mesoscale Numerical Modeling for Predicting Wear Debris Generation. <i>Tribology Letters</i> , 2019 , 67, 1	2.8	7
610	An adaptive robust framework for the optimization of the resilience of interdependent infrastructures under natural hazards. <i>European Journal of Operational Research</i> , 2019 , 276, 1119-1136	5.6	48
609	An ensemble of models for integrating dependent sources of information for the prognosis of the remaining useful life of Proton Exchange Membrane Fuel Cells. <i>Mechanical Systems and Signal Processing</i> , 2019 , 124, 479-501	7.8	32
608	Application of reliability technologies in civil aviation: Lessons learnt and perspectives. <i>Chinese Journal of Aeronautics</i> , 2019 , 32, 143-158	3.7	17
607	An integrated imputation-prediction scheme for prognostics of battery data with missing observations. <i>Expert Systems With Applications</i> , 2019 , 115, 709-723	7.8	31
606	Optimal allocation of prognostics and health management capabilities to improve the reliability of a power transmission network. <i>Reliability Engineering and System Safety</i> , 2019 , 184, 164-180	6.3	16
605	Importance analysis considering time-varying parameters and different perturbation occurrence times. <i>Quality and Reliability Engineering International</i> , 2019 , 35, 2558-2578	2.6	1
604	Adversarial Risk Analysis to Allocate Optimal Defense Resources for Protecting Cyber-Physical Systems from Cyber Attacks. <i>Risk Analysis</i> , 2019 , 39, 2766-2785	3.9	6
603	An adaptive cuckoo optimization algorithm for system design optimization under failure dependencies. <i>Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability</i> , 2019 , 233, 1099-1105	0.8	2
602	Mechanical Wear Life Prediction Based on Abrasive Debris Generation 2019 ,		1

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