

Enrico Zio

List of Publications by Citations

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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	Artificial intelligence for fault diagnosis of rotating machinery: A review. <i>Mechanical Systems and Signal Processing</i> , 2018 , 108, 33-47	7.8	795
761	Reliability engineering: Old problems and new challenges. <i>Reliability Engineering and System Safety</i> , 2009 , 94, 125-141	6.3	500
760	Condition-based maintenance optimization by means of genetic algorithms and Monte Carlo simulation. <i>Reliability Engineering and System Safety</i> , 2002 , 77, 151-165	6.3	232
759	Some considerations on the treatment of uncertainties in risk assessment for practical decision making. <i>Reliability Engineering and System Safety</i> , 2011 , 96, 64-74	6.3	218
758	Particle filtering prognostic estimation of the remaining useful life of nonlinear components. <i>Reliability Engineering and System Safety</i> , 2011 , 96, 403-409	6.3	210
757	Challenges in the vulnerability and risk analysis of critical infrastructures. <i>Reliability Engineering and System Safety</i> , 2016 , 152, 137-150	6.3	199
756	A data-driven fuzzy approach for predicting the remaining useful life in dynamic failure scenarios of a nuclear system. <i>Reliability Engineering and System Safety</i> , 2010 , 95, 49-57	6.3	194
755	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
754	Multiobjective optimization by genetic algorithms: application to safety systems. <i>Reliability Engineering and System Safety</i> , 2001 , 72, 59-74	6.3	176
753	An improved adaptive kriging-based importance technique for sampling multiple failure regions of low probability. <i>Reliability Engineering and System Safety</i> , 2014 , 131, 109-117	6.3	152
752	Condition assessment for the performance degradation of bearing based on a combinatorial feature extraction method 2014 , 27, 159-166		147
751	An integrated framework of agent-based modelling and robust optimization for microgrid energy management. <i>Applied Energy</i> , 2014 , 129, 70-88	10.7	147
750	Failure and reliability prediction by support vector machines regression of time series data. <i>Reliability Engineering and System Safety</i> , 2011 , 96, 1527-1534	6.3	145
749	The Monte Carlo Simulation Method for System Reliability and Risk Analysis. <i>Springer Series in Reliability Engineering</i> , 2013 ,	0.2	144
748	Optimizing maintenance and repair policies via a combination of genetic algorithms and Monte Carlo simulation. <i>Reliability Engineering and System Safety</i> , 2000 , 68, 69-83	6.3	144
747	Simulation modelling of repairable multi-component deteriorating systems for condition-based maintenance optimisation. <i>Reliability Engineering and System Safety</i> , 2002 , 76, 255-264	6.3	127
746	The future of risk assessment. <i>Reliability Engineering and System Safety</i> , 2018 , 177, 176-190	6.3	126

745	Reinforcement learning for microgrid energy management. <i>Energy</i> , 2013 , 59, 133-146	7.9	120
744	Reliability and vulnerability analyses of critical infrastructures: Comparing two approaches in the context of power systems. <i>Reliability Engineering and System Safety</i> , 2013 , 120, 27-38	6.3	118
743	. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 9521-9530	8.9	116
742	. <i>IEEE Transactions on Reliability</i> , 2016 , 65, 502-512	4.6	114
741	Concerns, challenges, and directions of development for the issue of representing uncertainty in risk assessment. <i>Risk Analysis</i> , 2014 , 34, 1196-207	3.9	107
740	Combining Relevance Vector Machines and exponential regression for bearing residual life estimation. <i>Mechanical Systems and Signal Processing</i> , 2012 , 31, 405-427	7.8	107
739	Two methods for the structured assessment of model uncertainty by experts in performance assessments of radioactive waste repositories. <i>Reliability Engineering and System Safety</i> , 1996 , 54, 225-241	6.3	107
738	A model predictive control framework for reliable microgrid energy management. <i>International Journal of Electrical Power and Energy Systems</i> , 2014 , 61, 399-409	5.1	104
737	. <i>IEEE Transactions on Reliability</i> , 2016 , 65, 1769-1782	4.6	103
736	. <i>IEEE Transactions on Reliability</i> , 2011 , 60, 94-101	4.6	102
735	Network theory-based analysis of risk interactions in large engineering projects. <i>Reliability Engineering and System Safety</i> , 2012 , 106, 1-10	6.3	100
734	. <i>IEEE Transactions on Reliability</i> , 2012 , 61, 966-977	4.6	97
733	Vulnerable Systems 2011 ,		97
732	A modeling and simulation framework for the reliability/availability assessment of a power transmission grid subject to cascading failures under extreme weather conditions. <i>Applied Energy</i> , 2017 , 185, 267-279	10.7	94
731	A multi-state model for the reliability assessment of a distributed generation system via universal generating function. <i>Reliability Engineering and System Safety</i> , 2012 , 106, 28-36	6.3	94
730	Generalised importance measures for multi-state elements based on performance level restrictions. <i>Reliability Engineering and System Safety</i> , 2003 , 82, 287-298	6.3	93
729	The role of network theory and object-oriented modeling within a framework for the vulnerability analysis of critical infrastructures. <i>Reliability Engineering and System Safety</i> , 2009 , 94, 954-963	6.3	92
728	Risk-informed optimisation of railway tracks inspection and maintenance procedures. <i>Reliability Engineering and System Safety</i> , 2006 , 91, 20-35	6.3	92

727	Modeling dependent competing failure processes with degradation-shock dependence. <i>Reliability Engineering and System Safety</i> , 2017 , 165, 422-430	6.3	91
726	Monte Carlo-based filtering for fatigue crack growth estimation. <i>Probabilistic Engineering Mechanics</i> , 2009 , 24, 367-373	2.6	89
725	Multiobjective spare part allocation by means of genetic algorithms and Monte Carlo simulation. <i>Reliability Engineering and System Safety</i> , 2005 , 87, 325-335	6.3	89
724	Foundational issues in risk assessment and risk management. <i>Risk Analysis</i> , 2014 , 34, 1164-72	3.9	88
723	A Monte Carlo methodological approach to plant availability modeling with maintenance, aging and obsolescence. <i>Reliability Engineering and System Safety</i> , 2000 , 67, 61-73	6.3	87
722	A combined Monte Carlo and possibilistic approach to uncertainty propagation in event tree analysis. <i>Risk Analysis</i> , 2008 , 28, 1309-26	3.9	86
721	. <i>IEEE Transactions on Reliability</i> , 2005 , 54, 243-253	4.6	86
720	Two Machine Learning Approaches for Short-Term Wind Speed Time-Series Prediction. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2016 , 27, 1734-47	10.3	85
719	Evaluating maintenance policies by quantitative modeling and analysis. <i>Reliability Engineering and System Safety</i> , 2013 , 109, 53-65	6.3	85
718	Investigation of uncertainty treatment capability of model-based and data-driven prognostic methods using simulated data. <i>Reliability Engineering and System Safety</i> , 2013 , 112, 94-108	6.3	84
717	A dynamic particle filter-support vector regression method for reliability prediction. <i>Reliability Engineering and System Safety</i> , 2013 , 119, 109-116	6.3	83
716	. <i>IEEE Transactions on Reliability</i> , 2015 , 64, 154-166	4.6	75
715	Comparing the treatment of uncertainty in Bayesian networks and fuzzy expert systems used for a human reliability analysis application. <i>Reliability Engineering and System Safety</i> , 2015 , 138, 176-193	6.3	75
714	An integrated systemic method for supply reliability assessment of natural gas pipeline networks. <i>Applied Energy</i> , 2018 , 209, 489-501	10.7	74
713	Analysis of robust optimization for decentralized microgrid energy management under uncertainty. <i>International Journal of Electrical Power and Energy Systems</i> , 2015 , 64, 815-832	5.1	73
712	Measuring reliability under epistemic uncertainty: Review on non-probabilistic reliability metrics. <i>Chinese Journal of Aeronautics</i> , 2016 , 29, 571-579	3.7	73
711	A reinforcement learning framework for optimal operation and maintenance of power grids. <i>Applied Energy</i> , 2019 , 241, 291-301	10.7	72
710	An adaptive method for health trend prediction of rotating bearings 2014 , 35, 117-123		72

709	A particle filtering and kernel smoothing-based approach for new design component prognostics. <i>Reliability Engineering and System Safety</i> , 2015 , 134, 19-31	6.3	71
708	A study of the bootstrap method for estimating the accuracy of artificial neural networks in predicting nuclear transient processes. <i>IEEE Transactions on Nuclear Science</i> , 2006 , 53, 1460-1478	1.7	71
707	Monte Carlo approach to PSA for dynamic process systems. <i>Reliability Engineering and System Safety</i> , 1996 , 52, 227-241	6.3	71
706	Network reliability analysis based on percolation theory. <i>Reliability Engineering and System Safety</i> , 2015 , 142, 556-562	6.3	70
705	Monte Carlo simulation analysis of the effects of different system performance levels on the importance of multi-state components. <i>Reliability Engineering and System Safety</i> , 2003 , 82, 63-73	6.3	68
704	Uncertainties in smart grids behavior and modeling: What are the risks and vulnerabilities? How to analyze them?. <i>Energy Policy</i> , 2011 , 39, 6308-6320	7.2	67
703	Estimation of the functional failure probability of a thermalhydraulic passive system by Subset Simulation. <i>Nuclear Engineering and Design</i> , 2009 , 239, 580-599	1.8	67
702	Genetic algorithms and Monte Carlo simulation for optimal plant design. <i>Reliability Engineering and System Safety</i> , 2000 , 68, 29-38	6.3	67
701	Hierarchical k-nearest neighbours classification and binary differential evolution for fault diagnostics of automotive bearings operating under variable conditions. <i>Engineering Applications of Artificial Intelligence</i> , 2016 , 56, 1-13	7.2	66
700	A fuzzy set-based approach for modeling dependence among human errors. <i>Fuzzy Sets and Systems</i> , 2009 , 160, 1947-1964	3.7	66
699	Monte Carlo simulation-based probabilistic assessment of DG penetration in medium voltage distribution networks. <i>International Journal of Electrical Power and Energy Systems</i> , 2015 , 64, 852-860	5.1	65
698	Uncertainty analysis of the adequacy assessment model of a distributed generation system. <i>Renewable Energy</i> , 2012 , 41, 235-244	8.1	65
697	Probability and possibility-based representations of uncertainty in fault tree analysis. <i>Risk Analysis</i> , 2013 , 33, 121-33	3.9	65
696	. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 2660-2669	7	65
695	Predicting component reliability and level of degradation with complex-valued neural networks. <i>Reliability Engineering and System Safety</i> , 2014 , 121, 198-206	6.3	64
694	A penalty guided stochastic fractal search approach for system reliability optimization. <i>Reliability Engineering and System Safety</i> , 2016 , 152, 213-227	6.3	64
693	Uncertainty treatment in risk analysis of complex systems: The cases of STAMP and FRAM. <i>Reliability Engineering and System Safety</i> , 2016 , 156, 203-209	6.3	63
692	Ensemble neural network-based particle filtering for prognostics. <i>Mechanical Systems and Signal Processing</i> , 2013 , 41, 288-300	7.8	63

691	A clustering procedure for reducing the number of representative solutions in the Pareto Front of multiobjective optimization problems. <i>European Journal of Operational Research</i> , 2011 , 210, 624-634	5.6	62
690	Challenges to IoT-Enabled Predictive Maintenance for Industry 4.0. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 4585-4597	10.7	62
689	Seismic fragility analysis with artificial neural networks: Application to nuclear power plant equipment. <i>Engineering Structures</i> , 2018 , 162, 213-225	4.7	61
688	Towards a probabilistic model for predicting ship besetting in ice in Arctic waters. <i>Reliability Engineering and System Safety</i> , 2016 , 155, 124-136	6.3	61
687	Polynomial chaos expansion for global sensitivity analysis applied to a model of radionuclide migration in a randomly heterogeneous aquifer. <i>Stochastic Environmental Research and Risk Assessment</i> , 2013 , 27, 945-954	3.5	60
686	Model-based and data-driven prognostics under different available information. <i>Probabilistic Engineering Mechanics</i> , 2013 , 32, 66-79	2.6	60
685	A Monte Carlo simulation approach to the availability assessment of multi-state systems with operational dependencies. <i>Reliability Engineering and System Safety</i> , 2007 , 92, 871-882	6.3	59
684	Differential evolution-based multi-objective optimization for the definition of a health indicator for fault diagnostics and prognostics. <i>Mechanical Systems and Signal Processing</i> , 2018 , 102, 382-400	7.8	58
683	A SVM framework for fault detection of the braking system in a high speed train. <i>Mechanical Systems and Signal Processing</i> , 2017 , 87, 401-409	7.8	58
682	Particle Filter-Based Prognostics for an Electrolytic Capacitor Working in Variable Operating Conditions. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 1567-1575	7.2	57
681	Fatigue crack growth estimation by relevance vector machine. <i>Expert Systems With Applications</i> , 2012 , 39, 10681-10692	7.8	57
680	An Introduction to the Basics of Reliability and Risk Analysis. <i>Series on Quality, Reliability and Engineering Statistics</i> , 2007 ,		57
679	Risk assessment and risk-cost optimization of distributed power generation systems considering extreme weather conditions. <i>Reliability Engineering and System Safety</i> , 2015 , 136, 47-61	6.3	56
678	Remaining useful life prediction using multi-scale deep convolutional neural network. <i>Applied Soft Computing Journal</i> , 2020 , 89, 106113	7.5	56
677	Ensemble of optimized echo state networks for remaining useful life prediction. <i>Neurocomputing</i> , 2018 , 281, 121-138	5.4	56
676	Model-based Monte Carlo state estimation for condition-based component replacement. <i>Reliability Engineering and System Safety</i> , 2009 , 94, 752-758	6.3	56
675	A concept paper on dynamic reliability via Monte Carlo simulation. <i>Mathematics and Computers in Simulation</i> , 1998 , 47, 371-382	3.3	56
674	Basics of genetic algorithms optimization for RAMS applications. <i>Reliability Engineering and System Safety</i> , 2006 , 91, 977-991	6.3	55

673	A risk-based simulation and multi-objective optimization framework for the integration of distributed renewable generation and storage. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 37, 778-793	16.2	54
672	Component criticality in failure cascade processes of network systems. <i>Risk Analysis</i> , 2011 , 31, 1196-2103	3.9	54
671	. <i>IEEE Transactions on Reliability</i> , 2004 , 53, 424-434	4.6	54
670	Reliability assessment of multi-state phased mission system with non-repairable multi-state components. <i>Applied Mathematical Modelling</i> , 2018 , 61, 181-199	4.5	53
669	Smart electricity meter reliability prediction based on accelerated degradation testing and modeling. <i>International Journal of Electrical Power and Energy Systems</i> , 2014 , 56, 209-219	5.1	53
668	A support vector machine integrated system for the classification of operation anomalies in nuclear components and systems. <i>Reliability Engineering and System Safety</i> , 2007 , 92, 593-600	6.3	53
667	Importance measures-based prioritization for improving the performance of multi-state systems: application to the railway industry. <i>Reliability Engineering and System Safety</i> , 2007 , 92, 1303-1314	6.3	53
666	Human reliability analysis by fuzzy "CREAM". <i>Risk Analysis</i> , 2007 , 27, 137-54	3.9	53
665	Integrated deterministic and probabilistic safety assessment: Concepts, challenges, research directions. <i>Nuclear Engineering and Design</i> , 2014 , 280, 413-419	1.8	51
664	The evolution of system reliability optimization. <i>Reliability Engineering and System Safety</i> , 2019 , 192, 106259	6.3	51
663	Randomized flow model and centrality measure for electrical power transmission network analysis. <i>Reliability Engineering and System Safety</i> , 2010 , 95, 379-385	6.3	50
662	A systematic framework of vulnerability analysis of a natural gas pipeline network. <i>Reliability Engineering and System Safety</i> , 2018 , 175, 79-91	6.3	49
661	Nuclear power plant components condition monitoring by probabilistic support vector machine. <i>Annals of Nuclear Energy</i> , 2013 , 56, 23-33	1.7	49
660	. <i>IEEE Transactions on Reliability</i> , 2013 , 62, 833-845	4.6	49
659	A data-driven approach for predicting failure scenarios in nuclear systems. <i>Annals of Nuclear Energy</i> , 2010 , 37, 482-491	1.7	49
658	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
657	A particle swarm-optimized support vector machine for reliability prediction. <i>Quality and Reliability Engineering International</i> , 2012 , 28, 141-158	2.6	48
656	Using expert models in human reliability analysis-a dependence assessment method based on fuzzy logic. <i>Risk Analysis</i> , 2010 , 30, 1277-97	3.9	47

655	Estimation of the importance measures of multi-state elements by Monte Carlo simulation. <i>Reliability Engineering and System Safety</i> , 2004 , 86, 191-204	6.3	47
654	A resilience perspective on water transport systems: The case of Eastern Star. <i>International Journal of Disaster Risk Reduction</i> , 2019 , 33, 343-354	4.5	47
653	Analyzing the topological, electrical and reliability characteristics of a power transmission system for identifying its critical elements. <i>Reliability Engineering and System Safety</i> , 2012 , 101, 67-74	6.3	46
652	Industrial disasters: Extreme events, extremely rare. Some reflections on the treatment of uncertainties in the assessment of the associated risks. <i>Chemical Engineering Research and Design</i> , 2013 , 91, 31-45	5.5	46
651	Vulnerability of Smart Grids With Variable Generation and Consumption: A System of Systems Perspective. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2013 , 43, 477-487	7.3	46
650	Analysis of the Results of Accelerated Aging Tests in Insulated Gate Bipolar Transistors. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 7953-7962	7.2	45
649	Assessment of the availability of an offshore installation by Monte Carlo simulation. <i>International Journal of Pressure Vessels and Piping</i> , 2006 , 83, 312-320	2.4	45
648	Identification of nuclear transients via optimized fuzzy clustering. <i>Annals of Nuclear Energy</i> , 2005 , 32, 1068-1080	1.7	45
647	NSGA-II-trained neural network approach to the estimation of prediction intervals of scale deposition rate in oil & gas equipment. <i>Expert Systems With Applications</i> , 2013 , 40, 1205-1212	7.8	44
646	Quantitative developments in the cognitive reliability and error analysis method (CREAM) for the assessment of human performance. <i>Annals of Nuclear Energy</i> , 2006 , 33, 894-910	1.7	44
645	Nonlinear Monte Carlo reliability analysis with biasing towards top event. <i>Reliability Engineering and System Safety</i> , 1993 , 40, 31-42	6.3	44
644	A novel support vector regression method for online reliability prediction under multi-state varying operating conditions. <i>Reliability Engineering and System Safety</i> , 2018 , 177, 35-49	6.3	43
643	. <i>IEEE Transactions on Reliability</i> , 2014 , 63, 13-25	4.6	43
642	The analytic hierarchy process as a systematic approach to the identification of important parameters for the reliability assessment of passive systems. <i>Nuclear Engineering and Design</i> , 2003 , 226, 311-336	1.8	43
641	Computational Methods for Reliability and Risk Analysis. <i>Series on Quality, Reliability and Engineering Statistics</i> , 2009 ,		43
640	An Interval-Valued Neural Network Approach for Uncertainty Quantification in Short-Term Wind Speed Prediction. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2015 , 26, 2787-800	10.3	42
639	Non-dominated sorting binary differential evolution for the multi-objective optimization of cascading failures protection in complex networks. <i>Reliability Engineering and System Safety</i> , 2013 , 111, 195-205	6.3	42
638	Monte Carlo simulation-based sensitivity analysis of the model of a thermalhydraulic passive system. <i>Reliability Engineering and System Safety</i> , 2012 , 107, 90-106	6.3	42

637	From complexity science to reliability efficiency: a new way of looking at complex network systems and critical infrastructures. <i>International Journal of Critical Infrastructures</i> , 2007 , 3, 488	1	42
636	Fault tolerant predictive control design for reliable microgrid energy management under uncertainties. <i>Energy</i> , 2015 , 91, 20-34	7.9	41
635	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
634	Availability-based simulation and optimization modeling framework for open-pit mine truck allocation under dynamic constraints. <i>International Journal of Mining Science and Technology</i> , 2013 , 23, 113-119	7.1	41
633	A comparison between probabilistic and Dempster-Shafer theory approaches to model uncertainty analysis in the performance assessment of radioactive waste repositories. <i>Risk Analysis</i> , 2010 , 30, 1139-56 ⁹	3.9	41
632	Accounting for components interactions in the differential importance measure. <i>Reliability Engineering and System Safety</i> , 2006 , 91, 1163-1174	6.3	41
631	Uncertainty theory as a basis for belief reliability. <i>Information Sciences</i> , 2018 , 429, 26-36	7.7	40
630	Identifying groups of critical edges in a realistic electrical network by multi-objective genetic algorithms. <i>Reliability Engineering and System Safety</i> , 2012 , 99, 172-177	6.3	40
629	Genetic algorithms for condition-based maintenance optimization under uncertainty. <i>European Journal of Operational Research</i> , 2015 , 244, 611-623	5.6	40
628	Remaining useful life estimation in heterogeneous fleets working under variable operating conditions. <i>Reliability Engineering and System Safety</i> , 2016 , 156, 109-124	6.3	40
627	An integrated framework for operational flexibility assessment in multi-period power system planning with renewable energy production. <i>Applied Energy</i> , 2018 , 222, 898-914	10.7	39
626	Electrical and topological drivers of the cascading failure dynamics in power transmission networks. <i>Reliability Engineering and System Safety</i> , 2018 , 175, 196-206	6.3	39
625	A stochastic framework for uncertainty analysis in electric power transmission systems with wind generation. <i>Renewable Energy</i> , 2014 , 64, 71-81	8.1	39
624	Ensemble-approaches for clustering health status of oil sand pumps. <i>Expert Systems With Applications</i> , 2012 , 39, 4847-4859	7.8	39
623	Genetic algorithm-based wrapper approach for grouping condition monitoring signals of nuclear power plant components. <i>Integrated Computer-Aided Engineering</i> , 2011 , 18, 221-234	5.2	39
622	A neuro-fuzzy technique for fault diagnosis and its application to rotating machinery. <i>Reliability Engineering and System Safety</i> , 2009 , 94, 78-88	6.3	39
621	Processing dynamic scenarios from a reliability analysis of a nuclear power plant digital instrumentation and control system. <i>Annals of Nuclear Energy</i> , 2009 , 36, 1386-1399	1.7	39
620	Optimal expansion of an existing electrical power transmission network by multi-objective genetic algorithms. <i>Reliability Engineering and System Safety</i> , 2010 , 95, 173-181	6.3	39

619	Quantifying uncertainties in the estimation of safety parameters by using bootstrapped artificial neural networks. <i>Annals of Nuclear Energy</i> , 2008 , 35, 2338-2350	1.7	39
618	A combination of Monte Carlo simulation and cellular automata for computing the availability of complex network systems. <i>Reliability Engineering and System Safety</i> , 2006 , 91, 181-190	6.3	39
617	Solving the inverse problem of parameter estimation by genetic algorithms: the case of a groundwater contaminant transport model. <i>Annals of Nuclear Energy</i> , 2002 , 29, 967-981	1.7	39
616	On the use of the analytic hierarchy process in the aggregation of expert judgments. <i>Reliability Engineering and System Safety</i> , 1996 , 53, 127-138	6.3	39
615	Identification and classification of dynamic event tree scenarios via possibilistic clustering: application to a steam generator tube rupture event. <i>Accident Analysis and Prevention</i> , 2009 , 41, 1180-91	6.1	38
614	Safety margins confidence estimation for a passive residual heat removal system. <i>Reliability Engineering and System Safety</i> , 2010 , 95, 828-836	6.3	38
613	A power-flow emulator approach for resilience assessment of repairable power grids subject to weather-induced failures and data deficiency. <i>Applied Energy</i> , 2018 , 210, 339-350	10.7	38
612	. <i>IEEE Transactions on Reliability</i> , 2016 , 65, 718-735	4.6	37
611	Selecting features for nuclear transients classification by means of genetic algorithms. <i>IEEE Transactions on Nuclear Science</i> , 2006 , 53, 1479-1493	1.7	37
610	An Integrated Framework for Risk Response Planning Under Resource Constraints in Large Engineering Projects. <i>IEEE Transactions on Engineering Management</i> , 2013 , 60, 627-639	2.6	35
609	An optimized Line Sampling method for the estimation of the failure probability of nuclear passive systems. <i>Reliability Engineering and System Safety</i> , 2010 , 95, 1300-1313	6.3	35
608	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 22, 142-155	6.1	35
607	System dynamic reliability assessment and failure prognostics. <i>Reliability Engineering and System Safety</i> , 2017 , 160, 21-36	6.3	34
606	. <i>IEEE Transactions on Reliability</i> , 2015 , 64, 852-860	4.6	34
605	Hierarchical propagation of probabilistic and non-probabilistic uncertainty in the parameters of a risk model. <i>Computers and Structures</i> , 2013 , 126, 199-213	4.5	34
604	Bagged ensemble of Fuzzy C-Means classifiers for nuclear transient identification. <i>Annals of Nuclear Energy</i> , 2011 , 38, 1161-1171	1.7	34
603	Feature-based classifier ensembles for diagnosing multiple faults in rotating machinery. <i>Applied Soft Computing Journal</i> , 2008 , 8, 1365-1380	7.5	34
602	A multiobjective genetic algorithm approach to the optimization of the technical specifications of a nuclear safety system. <i>Reliability Engineering and System Safety</i> , 2004 , 84, 87-99	6.3	34

601	Designing optimal degradation tests via multi-objective genetic algorithms. <i>Reliability Engineering and System Safety</i> , 2003 , 79, 87-94	6.3	34
600	. <i>IEEE Transactions on Reliability</i> , 2015 , 64, 1203-1213	4.6	33
599	Bayesian Network Modelling for the Wind Energy Industry: An Overview. <i>Reliability Engineering and System Safety</i> , 2020 , 202, 107053	6.3	33
598	Reliability assessment of generic geared wind turbines by GTST-MLD model and Monte Carlo simulation. <i>Renewable Energy</i> , 2015 , 83, 222-233	8.1	33
597	. <i>IEEE Transactions on Reliability</i> , 2012 , 61, 921-931	4.6	33
596	Comparison of bootstrapped artificial neural networks and quadratic response surfaces for the estimation of the functional failure probability of a thermal-hydraulic passive system. <i>Reliability Engineering and System Safety</i> , 2010 , 95, 386-395	6.3	33
595	Importance Measures of Multi-State Components in Multi-State Systems. <i>International Journal of Reliability, Quality and Safety Engineering</i> , 2003 , 10, 289-310	0.6	33
594	Bootstrapped Artificial Neural Networks for the seismic analysis of structural systems. <i>Structural Safety</i> , 2017 , 67, 70-84	4.9	32
593	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
592	System reliability prediction by support vector regression with analytic selection and genetic algorithm parameters selection. <i>Applied Soft Computing Journal</i> , 2015 , 30, 792-802	7.5	32
591	Optimization of cascade-resilient electrical infrastructures and its validation by power flow modeling. <i>Risk Analysis</i> , 2015 , 35, 594-607	3.9	32
590	Optimizing protections against cascades in network systems: A modified binary differential evolution algorithm. <i>Reliability Engineering and System Safety</i> , 2012 , 103, 72-83	6.3	32
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