

# Adolfo Crespo Martínez

## List of Publications by Year in descending order

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158  
papers

2,742  
citations

186265

28  
h-index

206112

48  
g-index

173  
all docs

173  
docs citations

173  
times ranked

1758  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the concept of e-maintenance: Review and current research. Reliability Engineering and System Safety, 2008, 93, 1165-1187.	8.9	317
2	Contemporary maintenance management: process, framework and supporting pillars. Omega, 2006, 34, 313-326.	5.9	151
3	The maintenance management framework. Journal of Quality in Maintenance Engineering, 2009, 15, 167-178.	1.7	137
4	A Review of the Use of Artificial Neural Network Models for Energy and Reliability Prediction. A Study of the Solar PV, Hydraulic and Wind Energy Sources. Applied Sciences (Switzerland), 2019, 9, 1844.	2.5	126
5	Conceptual framework for e-Maintenance: Illustration by e-Maintenance technologies and platforms. Annual Reviews in Control, 2009, 33, 220-229.	7.9	102
6	The effectiveness of using e-collaboration tools in the supply chain: an assessment study with system dynamics. Journal of Purchasing and Supply Management, 2003, 9, 151-163.	5.7	96
7	E-maintenance: review and conceptual framework. Production Planning and Control, 2008, 19, 408-429.	8.8	88
8	Operational and financial effectiveness of e-collaboration tools in supply chain integration. European Journal of Operational Research, 2004, 159, 348-363.	5.7	84
9	Monte Carlo-based assessment of system availability. A case study for cogeneration plants. Reliability Engineering and System Safety, 2005, 88, 273-289.	8.9	82
10	A framework for effective management of condition based maintenance programs in the context of industrial development of E-Maintenance strategies. Computers in Industry, 2016, 82, 170-185.	9.9	75
11	On the role of Prognostics and Health Management in advanced maintenance systems. Production Planning and Control, 2016, 27, 991-1004.	8.8	74
12	A dynamic opportunistic maintenance model to maximize energy-based availability while reducing the life cycle cost of wind farms. Renewable Energy, 2017, 114, 843-856.	8.9	64
13	Models for maintenance optimization: a study for repairable systems and finite time periods. Reliability Engineering and System Safety, 2002, 75, 367-377.	8.9	62
14	Failure mode prediction and energy forecasting of PV plants to assist dynamic maintenance tasks by ANN based models. Renewable Energy, 2015, 81, 227-238.	8.9	55
15	A Decision Support System for evaluating operations investments in high-technology business. Decision Support Systems, 2006, 41, 472-487.	5.9	51
16	The procurement of strategic parts. Analysis of a portfolio of contracts with suppliers using a system dynamics simulation model. International Journal of Production Economics, 2004, 88, 29-49.	8.9	45
17	Special issue on e-maintenance. Computers in Industry, 2006, 57, 473-475.	9.9	42
18	Building Information Modeling as Asset Management Tool. IFAC-PapersOnLine, 2016, 49, 191-196.	0.9	42

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19	Advanced model for maintenance management in a continuous improvement cycle: integration into the business strategy. <i>International Journal of Systems Assurance Engineering and Management</i> , 2012, 3, 47-63.	2.4	40
20	Criticality Analysis for Maintenance Purposes: A Study for Complex In-service Engineering Assets. <i>Quality and Reliability Engineering International</i> , 2016, 32, 519-533.	2.3	39
21	Capacity constrained supply chains: a simulation study. <i>International Journal of Simulation and Process Modelling</i> , 2008, 4, 139.	0.2	37
22	Framework for implementation of maintenance management in distribution network service providers. <i>Reliability Engineering and System Safety</i> , 2009, 94, 1639-1649.	8.9	35
23	Exploring the utilization of a CONWIP system for supply chain management. A comparison with fully integrated supply chains. <i>International Journal of Production Economics</i> , 2003, 83, 195-215.	8.9	33
24	Dynamic artificial neural network-based reliability considering operational context of assets.. <i>Reliability Engineering and System Safety</i> , 2019, 188, 483-493.	8.9	33
25	Maintenance policies for a production system with constrained production rate and buffer capacity. <i>International Journal of Production Research</i> , 2003, 41, 1909-1926.	7.5	32
26	Modelling using UML and BPMN the integration of open reliability, maintenance and condition monitoring management systems: An application in an electric transformer system. <i>Computers in Industry</i> , 2013, 64, 524-542.	9.9	32
27	A practical method for the maintainability assessment in industrial devices using indicators and specific attributes. <i>Reliability Engineering and System Safety</i> , 2012, 100, 84-92.	8.9	31
28	A Process to Implement an Artificial Neural Network and Association Rules Techniques to Improve Asset Performance and Energy Efficiency. <i>Energies</i> , 2019, 12, 3454.	3.1	30
29	The Graphical Analysis for Maintenance Management Method: A Quantitative Graphical Analysis to Support Maintenance Management Decision Making. <i>Quality and Reliability Engineering International</i> , 2013, 29, 77-87.	2.3	29
30	Modelling a maintenance management framework based on PAS 55 standard. <i>Quality and Reliability Engineering International</i> , 2011, 27, 805-820.	2.3	28
31	Value-driven engineering of E-maintenance platforms. <i>Journal of Manufacturing Technology Management</i> , 2014, 25, 568-598.	6.4	27
32	Maintenance Management through Intelligent Asset Management Platforms (IAMP). <i>Emerging Factors, Key Impact Areas and Data Models. Energies</i> , 2020, 13, 3762.	3.1	27
33	A structured approach for the assessment of system availability and reliability using Monte Carlo simulation. <i>Journal of Quality in Maintenance Engineering</i> , 2007, 13, 125-136.	1.7	23
34	Learning about failure root causes through maintenance records analysis. <i>Journal of Quality in Maintenance Engineering</i> , 2004, 10, 254-262.	1.7	21
35	Dynamic analytic hierarchy process: AHP method adapted to a changing environment. <i>Journal of Manufacturing Technology Management</i> , 2014, 25, 457-475.	6.4	20
36	Life Cycle Cost Analysis. , 2012, , 81-99.		20

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37	A framework for warranty management in industrial assets. Computers in Industry, 2012, 63, 960-971.	9.9	19
38	Contractual and quality aspects on warranty. International Journal of Quality and Reliability Management, 2012, 29, 320-348.	2.0	18
39	Improving preventive maintenance scheduling in semiconductor fabrication facilities. Production Planning and Control, 2006, 17, 742-754.	8.8	17
40	Criticality Analysis for improving maintenance, felling and pruning cycles in power lines. IFAC-PapersOnLine, 2018, 51, 211-216.	0.9	17
41	Designing CBM Plans, Based on Predictive Analytics and Big Data Tools, for Train Wheel Bearings. Computers in Industry, 2020, 122, 103292.	9.9	17
42	On the importance of assessing the operational context impact on maintenance management for life cycle cost of wind energy projects. Renewable Energy, 2020, 153, 1100-1110.	8.9	17
43	Practical application of an Analytic Hierarchy Process for the improvement of the warranty management. Journal of Quality in Maintenance Engineering, 2011, 17, 163-182.	1.7	15
44	Implementing Intelligent Asset Management Systems (IAMS) within an Industry 4.0 Manufacturing Environment. IFAC-PapersOnLine, 2019, 52, 2488-2493.	0.9	13
45	Risk-Based Criticality for Network Utilities Asset Management. IEEE Transactions on Network and Service Management, 2019, 16, 755-768.	4.9	12
46	A case study of GAMM (graphical analysis for maintenance management) in the mining industry. Reliability Engineering and System Safety, 2014, 121, 113-120.	8.9	11
47	Reliability-based advanced maintenance modelling to enhance rolling stock manufacturersâ€™ objectives. Computers and Industrial Engineering, 2020, 144, 106436.	6.3	11
48	Optimizing preventive maintenance over a finite planning horizon in a semi-Markov framework. IMA Journal of Management Mathematics, 2022, 33, 75-99.	1.6	10
49	Front-end, back-end and integration issues in virtual supply chain dynamics modelling. International Journal of Logistics Systems and Management, 2004, 1, 38.	0.2	9
50	Asset Management Framework and Tools for Facing Challenges in the Adoption of Product-Service Systems. IEEE Transactions on Engineering Management, 2022, 69, 2693-2706.	3.5	9
51	Afterâ€™sales Service of Engineering Industrial Assets. , 2014, , .		9
52	Stochastic model of reliability for use in the evaluation of the economic impact of a failure using life cycle cost analysis. Case studies on the rail freight and oil industries. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2012, 226, 392-405.	0.7	8
53	Modelling the repair warranty of an industrial asset using a non-homogeneous Poisson process and a general renewal process. IMA Journal of Management Mathematics, 2015, 26, 171-183.	1.6	8
54	Resolution of reliability problems based on failure mode analysis: an integrated proposal applied to a mining case study. Production Planning and Control, 2018, 29, 1225-1237.	8.8	8

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55	Advanced Techniques for Assets Maintenance Management. IFAC-PapersOnLine, 2018, 51, 205-210.	0.9	8
56	Review and Comparison of Intelligent Optimization Modelling Techniques for Energy Forecasting and Condition-Based Maintenance in PV Plants. Energies, 2019, 12, 4163.	3.1	8
57	Integrating artificial intelligent techniques and continuous time simulation modelling. Practical predictive analytics for energy efficiency and failure detection. Computers in Industry, 2020, 115, 103164.	9.9	8
58	E-MAINTENANCE: PRINCIPLES, REVIEW AND CONCEPTUAL FRAMEWORK. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 18-29.	0.4	7
59	Review, Classification and Comparative Analysis of Maintenance Management Models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 239-244.	0.4	7
60	Modelling on-line reliability and risk to schedule the preventive maintenance of repairable assets in network utilities. IMA Journal of Management Mathematics, 2013, 24, 437-450.	1.6	7
61	Biomethanation plant assessment based on reliability impact on operational effectiveness. Renewable Energy, 2017, 101, 301-310.	8.9	7
62	On the Risks and Costs Methodologies Applied for the Improvement of the Warranty Management. Journal of Service Science and Management, 2011, 04, 191-202.	0.5	7
63	Modeling critical failures maintenance: a case study for mining. Journal of Quality in Maintenance Engineering, 2005, 11, 301-317.	1.7	6
64	Value assessment of an E-maintenance platform. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 145-150.	0.4	6
65	MetodologÃa para el anÃlisis de problemas y limitaciones en emprendimientos universitarios. Innovar, 2017, 27, 91-106.	0.4	6
66	After-sales services optimisation through dynamic opportunistic maintenance: a wind energy case study. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2018, 232, 352-367.	0.7	6
67	A model to determining the remaining useful life of rotating equipment, based on a new approach to determining state of degradation. Journal of Central South University, 2020, 27, 2291-2310.	3.0	6
68	Dimensionality analysis in machine learning failure detection models. A case study with LNG compressors. Computers in Industry, 2021, 128, 103434.	9.9	6
69	Digital Maintenance Management. Springer Series in Reliability Engineering, 2022, , .	0.5	6
70	Dynamic Risk Assessment for CBM-based adaptation of maintenance planning. Reliability Engineering and System Safety, 2022, 223, 108359.	8.9	6
71	Introducing VAR and SVAR predictions in system dynamics models. International Journal of Simulation and Process Modelling, 2008, 4, 7.	0.2	5
72	Graphical Analysis for Operation Management: A Graphical Method to Support Operation Decision Making. Quality and Reliability Engineering International, 2016, 32, 2299-2311.	2.3	5

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73	Standards as Reference to Build a PHM-Based Solution. Lecture Notes in Mechanical Engineering, 2016, , 207-214.	0.4	5
74	Customer-oriented risk assessment in network utilities. Reliability Engineering and System Safety, 2016, 147, 72-83.	8.9	5
75	Framework for Managing Maintenance of Wind Farms Based on a Clustering Approach and Dynamic Opportunistic Maintenance. Energies, 2019, 12, 2036.	3.1	5
76	Case study: Warranty costs estimation according to a defined lifetime distribution of deliverables. , 2010, , 146-155.		5
77	Defining Asset Health Indicators (AHI) to Support Complex Assets Maintenance and Replacement Strategies. A Generic Procedure to Assess Assets Deterioration. , 2020, , 79-99.		5
78	The Integration of Open Reliability, Maintenance, and Condition Monitoring Management Systems. , 2018, , 43-78.		5
79	A new model to compare intelligent asset management platforms (IAMP). IFAC-PapersOnLine, 2020, 53, 13-18.	0.9	5
80	Planning Major Overhaul and Equipment Renovation Based on Asset Criticality and Health Index. Lecture Notes in Mechanical Engineering, 2021, , 83-90.	0.4	5
81	The Curse of Dimensionality. Springer Series in Reliability Engineering, 2022, , 67-86.	0.5	5
82	UML model for integration between RCM and CBM in an e-Maintenance architecture. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 110-115.	0.4	4
83	A Case Study of GMM (Graphical Analysis for Maintenance Management) Applied to Water Pumps in a Sewage Treatment Plant, Chile. Quality and Reliability Engineering International, 2014, 30, 1473-1480.	2.3	4
84	Expected impact quantificationâ€“based reliability assessment methodology for Chilean copper smelting process: A case study. Advances in Mechanical Engineering, 2016, 8, 168781401667484.	1.6	4
85	Criticality Analysis for Network Utilities Asset Management. IFAC-PapersOnLine, 2019, 52, 2074-2079.	0.9	4
86	AUDIT AND DIAGNOSIS IN ASSET MANAGEMENT AND MAINTENANCE APPLIED IN THE ELECTRICAL INDUSTRY. Dyna (Spain), 2021, 96, 238-238.	0.2	4
87	Optimising the Preventive Maintenance Interval Using a Semi-Markov Process, Z-Transform, and Finite Planning Horizon. Advances in Logistics, Operations, and Management Science Book Series, 2021, , 137-161.	0.4	4
88	RAM analysis of mining process: a case study of a Copper Smelting Process in the field of mining, Chile. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 217-222.	0.4	3
89	Criticality Analysis for optimising OPEX cost lifecycle. IFAC-PapersOnLine, 2016, 49, 7-12.	0.9	3
90	Prognostics and Health Management in Advanced Maintenance Systems. , 2018, , 79-106.		3

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91	Graphical analysis for overall effectiveness management: <scp>A</scp> graphical method to support operation and maintenance performance assessment. Quality and Reliability Engineering International, 2018, 34, 1615-1632.	2.3	3
92	Integrating complex asset health modelling techniques with continuous time simulation modelling: A practical tool for maintenance and capital investments analysis. Computers in Industry, 2021, 133, 103507.	9.9	3
93	Reliability Engineering Techniques Applied to the Human Failure Analysis Process. Advances in Logistics, Operations, and Management Science Book Series, 2021, , 162-179.	0.4	3
94	Benefits of Digital Transformation for Maintenance Management Systems. Market Trends. Springer Series in Reliability Engineering, 2022, , 3-11.	0.5	3
95	On the Family of Standards UNE-ISO 55000 and How to Effectively Manage Assets. , 2018, , 1-16.		2
96	Dynamic Reliability Prediction of Asset Failure Modes. , 2018, , 291-309.		2
97	A Maintenance Management Framework Based on PAS 55. , 2018, , 17-41.		2
98	Fleet optimization considering overcapacity and load sharing restrictions using genetic algorithms and ant colony optimization. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2020, 34, 104-113.	1.1	2
99	Fundamental Concepts and Framework. , 2020, , 3-38.		2
100	Modern Maintenance Management for Enhancing Organizational Efficiency. , 2004, , 321-332.		2
101	METODOLOGIA PARA AUDITAR LA ASIGNACION DE RECURSOS A LAS ACTIVIDADES DE MANTENIMIENTO. Dyna (Spain), 2014, 89, 89-97.	0.2	2
102	Economic Impact of a Failure Using Life-Cycle Cost Analysis. , 2018, , 213-243.		2
103	Driving the Introduction of Digital Technologies to Enhance the Maintenance Management Process and Framework. Springer Series in Reliability Engineering, 2022, , 25-30.	0.5	2
104	Practical application of a RAMS analysis for the improvement of the warranty management. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 50-55.	0.4	1
105	A case study of GAMM (Graphical Analysis for Maintenance Management) applied to water pumps in a sewage treatment plant, Chile. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 157-162.	0.4	1
106	Reliability assessment based on energy consumption as a failure rate factor. , 2015, , .		1
107	A Support System for Selecting the Most Suitable Spare Parts Strategy. Lecture Notes in Mechanical Engineering, 2015, , 19-29.	0.4	1
108	Analysis of dynamic reliability surveillance: a case study. IMA Journal of Management Mathematics, 0, , dpw011.	1.6	1

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109	Value Assessment of e-Maintenance Platforms. , 2018, , 371-385.		1
110	Criticality analysis for preventive maintenance optimization purposes in gas network infrastructures. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2018, 232, 464-472.	0.7	1
111	Control and Knowledge Management System. Springer Series in Reliability Engineering, 2012, , 299-329.	0.5	1
112	Inequality Indices Based on the Notion of Shannon-Entropy for the Assessments of Industrial Fleets. Lecture Notes in Mechanical Engineering, 2016, , 189-196.	0.4	1
113	AHP Method According to a Changing Environment. , 2018, , 167-189.		1
114	CÃLCULO DEL PERÃODO DE GARANTÃA TRAS LA REPARACIÃN DE UN ACTIVO INDUSTRIAL COMPLEJO, APLICANDO PROCESOS DE POISSON NO HOMOGÃNEOS. Dyna (Spain), 2012, 87, 655-662.	0.2	1
115	MODELADO ESTOCÃSTICO DE CONFIABILIDAD PARA ACTIVOS FÃSICOS REPARABLES. CASO DE ESTUDIO APLICADO A LA MINERÃA CHILENA. Dyna (Spain), 2016, 91, 423-431.	0.2	1
116	Mathematical and Stochastic Models for Reliability in Repairable Industrial Physical Assets. Advances in Environmental Engineering and Green Technologies Book Series, 2015, , 287-310.	0.4	1
117	A Quantitative Graphical Analysis to Support Maintenance. , 2018, , 311-329.		1
118	An Approach to Quantify Value Provided by an Engineered Asset According to the ISO 5500x Series of Standards. Lecture Notes in Mechanical Engineering, 2019, , 189-196.	0.4	1
119	PriorizaciÃ³n de Activos FÃsicos centrado en el Rendimiento Global (Throughput) en una Planta de Chancado. Informacion Tecnologica (discontinued), 2019, 30, 45-56.	0.3	1
120	Strategies for COVID-19 Pandemic Recovery: Application of Engineering Asset Management Principles. Lecture Notes in Mechanical Engineering, 2021, , 288-305.	0.4	1
121	Methodological proposal for problem resolution in industrial activities based on failure mode analysis. Case applied in the cellulose industry, Chile. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 121-126.	0.4	0
122	NHPP APPLIED TO THE REPAIR WARRANTY OF AN INDUSTRIAL ASSET. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 223-227.	0.4	0
123	Availability Simulation Based on Pseudo-random Failure Rates: A Case Study on Industrial Process. Lecture Notes in Mechanical Engineering, 2016, , 197-205.	0.4	0
124	Reliability Stochastic Modeling for Repairable Physical Assets. , 2018, , 191-211.		0
125	Criticality Analysis for Maintenance Purposes. , 2018, , 143-166.		0
126	Decision support systems in asset control: an approach based on Artificial Neural Network and Association Rule Mining. , 2019, , .		0



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127	Integration of a Maintenance Management Model (MMM) Into an Asset Management Process. Advances in Logistics, Operations, and Management Science Book Series, 2022, , 1-29.	0.4	0
128	A Background on Utilities and Maintenance Management. Springer Series in Reliability Engineering, 2012, , 3-31.	0.5	0
129	Learning from Maintenance Management Models. , 2014, , 55-72.		0
130	Reference Framework. , 2014, , 73-92.		0
131	Summary of Results and Conclusions. , 2014, , 303-318.		0
132	JMTM special issue on: advanced maintenance engineering, services and technologies. Journal of Manufacturing Technology Management, 2014, 25, .	6.4	0
133	Analytic Hierarchy Process as a Decision Tool for Operative Marketing. , 2015, , 5358-5370.		0
134	Reliability Analysis during the Design Phase of a Complex Asset. , 2015, , 5243-5254.		0
135	Complex engineering assets criticality analysis for maintenance purposes. , 2015, , .		0
136	Asset Management for Buildings within the Framework of Building Information Modeling Development. Advances in Logistics, Operations, and Management Science Book Series, 2017, , 121-138.	0.4	0
137	PROPUESTA METODOLÃ“GICA PARA LA EVALUACIÃ“N DEL IMPACTO ESPERADO DE FALLOS EN EQUIPOS COMPLEJOS. CASO APLICADO A UNA PLANTA DE TRITURACIÃ“N DE MINERAL DE COBRE. Dyna (Spain), 2017, 92, 0.2 300-307.	0.2	0
138	Model of a Performance Measurement System for Maintenance Management. Advances in Logistics, Operations, and Management Science Book Series, 2017, , 194-214.	0.4	0
139	Graphical Techniques and Methods. Advances in Logistics, Operations, and Management Science Book Series, 2017, , 83-95.	0.4	0
140	Case Study on a Maintenance and Reliability Management Model Proposal. Advances in Logistics, Operations, and Management Science Book Series, 2017, , 1-31.	0.4	0
141	Service 4.0. Advances in Logistics, Operations, and Management Science Book Series, 2017, , 139-162.	0.4	0
142	ENFOQUE PARA LA DETECCIÃ“N Y DIAGNÃ“STICO DE FALLOS EN SISTEMAS DE ENERGÃA FOTOVOLTAICA BASADO EN LA DISTRIBUCIÃ“N DE WEIBULL. Dyna (Spain), 2017, 92, 532-537.	0.2	0
143	Online Reliability and Risk to Schedule the Preventive Maintenance in Network Utilities. , 2018, , 245-261.		0
144	Expected Impact Quantification Based on Reliability Assessment. , 2018, , 413-435.		0

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145	Customer-oriented Risk Assessment in Network Utilities. , 2018, , 263-290.		0
146	Assistance to Dynamic Maintenance Tasks by Ann-Based Models. , 2018, , 387-411.		0
147	Summary of Results and Conclusions. , 2018, , 455-467.		0
148	Case Study of Graphical Analysis for Maintenance Management. , 2018, , 331-348.		0
149	Simultaneous optimisation of seaside operations in container terminals: a case study of the Iranian Rajae port. International Journal of Shipping and Transport Logistics, 2018, 10, 587.	0.5	0
150	DECISION CRITERIA TO SELECT A SUITABLE CRITICALITY ASSESSMENT TECHNIQUE. Dyna (Spain), 2018, 93, 133-134.	0.2	0
151	A CPS for Condition Based Maintenance Based on a Multi-agent System for Failure Modes Prediction in Grid Connected PV Systems. , 2020, , 165-185.		0
152	Asset Management for Buildings within the Framework of Building Information Modeling Development. , 0, , 133-150.		0
153	The Definition of the Asset Data Model. Springer Series in Reliability Engineering, 2022, , 31-39.	0.5	0
154	The Dynamic Scheduling of Maintenance. Springer Series in Reliability Engineering, 2022, , 99-114.	0.5	0
155	A Review of New Digital Technologies Impacting Maintenance Management. Springer Series in Reliability Engineering, 2022, , 13-22.	0.5	0
156	Overview for Leasing or Buying Decisions in Industrial Asset Management. Lecture Notes in Mechanical Engineering, 2022, , 115-125.	0.4	0
157	The Dynamic Measurement of Failure Risk. Springer Series in Reliability Engineering, 2022, , 87-97.	0.5	0
158	Techniques for Anomalies Detection. Springer Series in Reliability Engineering, 2022, , 117-132.	0.5	0