

Guilherme L Tortorella

List of Publications by Year in descending order

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147
papers

5,002
citations

117625

34
h-index

118850

62
g-index

149
all docs

149
docs citations

149
times ranked

2459
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring Industry 4.0 technologies to enable circular economy practices in a manufacturing context. <i>Journal of Manufacturing Technology Management</i> , 2019, 30, 607-627.	6.4	488
2	Implementation of Industry 4.0 and lean production in Brazilian manufacturing companies. <i>International Journal of Production Research</i> , 2018, 56, 2975-2987.	7.5	452
3	Organizational learning paths based upon industry 4.0 adoption: An empirical study with Brazilian manufacturers. <i>International Journal of Production Economics</i> , 2020, 219, 284-294.	8.9	228
4	Industry 4.0 adoption as a moderator of the impact of lean production practices on operational performance improvement. <i>International Journal of Operations and Production Management</i> , 2019, 39, 860-886.	5.9	222
5	The interrelation between Industry 4.0 and lean production: an empirical study on European manufacturers. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 102, 3963-3976.	3.0	152
6	How does Industry 4.0 contribute to operations management?. <i>Journal of Industrial and Production Engineering</i> , 2018, 35, 255-268.	3.1	151
7	Industry 4.0 and Lean Manufacturing. <i>Journal of Manufacturing Technology Management</i> , 2019, 32, 543-569.	6.4	126
8	Impact of COVID-19 outbreak on employee performance – Moderating role of industry 4.0 base technologies. <i>International Journal of Production Economics</i> , 2021, 234, 108075.	8.9	122
9	Contextual factors and lean production implementation in the Brazilian automotive supply chain. <i>Supply Chain Management</i> , 2016, 21, 417-432.	6.4	115
10	Healthcare 4.0: trends, challenges and research directions. <i>Production Planning and Control</i> , 2020, 31, 1245-1260.	8.8	113
11	Lean supply chain management: Empirical research on practices, contexts and performance. <i>International Journal of Production Economics</i> , 2017, 193, 98-112.	8.9	109
12	Method for assessing human resources management practices and organisational learning factors in a company under lean manufacturing implementation. <i>International Journal of Production Research</i> , 2014, 52, 4623-4645.	7.5	80
13	Lean product development and lean manufacturing: Testing moderation effects. <i>International Journal of Production Economics</i> , 2018, 203, 301-310.	8.9	78
14	Relationships between lean product development enablers and problems. <i>International Journal of Production Research</i> , 2016, 54, 2837-2855.	7.5	76
15	Effects of Lean Healthcare on Patient Flow: A Systematic Review. <i>Value in Health</i> , 2020, 23, 260-273.	0.3	72
16	The moderating effect of Lean supply chain management on the impact of Lean shop floor practices on quality and inventory. <i>Supply Chain Management</i> , 2017, 22, 473-485.	6.4	71
17	Lean manufacturing implementation: leadership styles and contextual variables. <i>International Journal of Operations and Production Management</i> , 2018, 38, 1205-1227.	5.9	71
18	The mediating effect of employees'™ involvement on the relationship between Industry 4.0 and operational performance improvement. <i>Total Quality Management and Business Excellence</i> , 2021, 32, 119-133.	3.8	71

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19	Designing lean value streams in the fourth industrial revolution era: proposition of technology-integrated guidelines. <i>International Journal of Production Research</i> , 2020, 58, 5020-5033.	7.5	69
20	Integration of Industry 4.0 technologies into Total Productive Maintenance practices. <i>International Journal of Production Economics</i> , 2021, 240, 108224.	8.9	69
21	Lean manufacturing implementation: an assessment method with regards to socio-technical and ergonomics practices adoption. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 89, 3407-3418.	3.0	67
22	The impact of contextual variables on learning organization in firms that are implementing lean: a study in Southern Brazil. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 78, 1879-1892.	3.0	61
23	Lean implementation in healthcare supply chain: a scoping review. <i>Journal of Health Organization and Management</i> , 2019, 33, 304-322.	1.3	60
24	Impacts of Healthcare 4.0 digital technologies on the resilience of hospitals. <i>Technological Forecasting and Social Change</i> , 2021, 166, 120666.	11.6	59
25	Making the value flow: application of value stream mapping in a Brazilian public healthcare organisation. <i>Total Quality Management and Business Excellence</i> , 2017, 28, 1544-1558.	3.8	52
26	Lean production and operational performance in the Brazilian automotive supply chain. <i>Total Quality Management and Business Excellence</i> , 2019, 30, 370-385.	3.8	52
27	Towards the proposition of a Lean Automation framework. <i>Journal of Manufacturing Technology Management</i> , 2020, 32, 593-620.	6.4	47
28	How can general leadership theories help to expand the knowledge of lean leadership?. <i>Production Planning and Control</i> , 2019, 30, 1322-1336.	8.8	46
29	A comparison on Industry 4.0 and Lean Production between manufacturers from emerging and developed economies. <i>Total Quality Management and Business Excellence</i> , 2021, 32, 1249-1270.	3.8	43
30	Learning organisation and human resources management practices: an exploratory research in medium-sized enterprises undergoing a lean implementation. <i>International Journal of Production Research</i> , 2015, 53, 3989-4000.	7.5	41
31	Implementation of lean supply chain: an empirical research on the effect of context. <i>TQM Journal</i> , 2017, 29, 610-623.	3.3	41
32	Effects of contingencies on healthcare 4.0 technologies adoption and barriers in emerging economies. <i>Technological Forecasting and Social Change</i> , 2020, 156, 120048.	11.6	39
33	TOWARDS SUSTAINABILITY THROUGH GREEN, LEAN AND SIX SIGMA INTEGRATION AT SERVICE INDUSTRY: REVIEW AND FRAMEWORK. <i>Technological and Economic Development of Economy</i> , 2018, 24, 1659-1678.	4.6	38
34	How context factors influence lean production practices in manufacturing cells. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 79, 1389-1399.	3.0	37
35	Lean supply chain practices: an exploratory study on their relationship. <i>International Journal of Logistics Management</i> , 2018, 29, 1049-1076.	6.6	37
36	Assessing the Impact of Lean Healthcare on Inpatient Care: A Systematic Review. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 5609.	2.6	37

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37	Leadership behaviors during lean healthcare implementation: a review and longitudinal study. <i>Journal of Manufacturing Technology Management</i> , 2019, 31, 193-215.	6.4	36
38	Industry 4.0 and Lean Production: an empirical study. <i>IFAC-PapersOnLine</i> , 2019, 52, 42-47.	0.9	35
39	Lean Production and Industry 4.0 integration: how Lean Automation is emerging in manufacturing industry. <i>International Journal of Production Research</i> , 2022, 60, 6430-6450.	7.5	35
40	Implementation of lean manufacturing and situational leadership styles. <i>Leadership and Organization Development Journal</i> , 2017, 38, 946-968.	3.0	34
41	Learning cycles and focus groups. <i>Learning Organization</i> , 2015, 22, 229-240.	1.4	33
42	Learning organisation and lean production: an empirical research on their relationship. <i>International Journal of Production Research</i> , 2020, 58, 3650-3666.	7.5	32
43	Identifying pathways to a high-performing lean automation implementation: An empirical study in the manufacturing industry. <i>International Journal of Production Economics</i> , 2021, 231, 107918.	8.9	30
44	What does operational excellence mean in the Fourth Industrial Revolution era?. <i>International Journal of Production Research</i> , 2022, 60, 2901-2917.	7.5	30
45	Contributions of Healthcare 4.0 digital applications to the resilience of healthcare organizations during the COVID-19 outbreak. <i>Technovation</i> , 2022, 111, 102379.	7.8	30
46	Measuring the effect of Healthcare 4.0 implementation on hospitals' performance. <i>Production Planning and Control</i> , 2022, 33, 386-401.	8.8	26
47	Pandemic's effect on the relationship between lean implementation and service performance. <i>Journal of Service Theory and Practice</i> , 2021, 31, 203-224.	3.2	26
48	Lean manufacturing implementation, context and behaviors of multi-level leadership. <i>Journal of Manufacturing Technology Management</i> , 2017, 28, 867-891.	6.4	25
49	Simulation-based analysis of a supplier-manufacturer relationship in lean supply chains. <i>International Journal of Lean Six Sigma</i> , 2017, 8, 262-274.	3.3	24
50	A lean six sigma framework for continuous and incremental improvement in the oil and gas sector. <i>International Journal of Lean Six Sigma</i> , 2019, 11, 577-595.	3.3	24
51	Decision-making framework for supplier selection using an integrated MCDM approach in a lean-agile-resilient-green environment: evidence from Indian automotive sector. <i>TQM Journal</i> , 2023, 35, 964-1006.	3.3	24
52	The benchmarking of the use of toolkit for mass customization in the automobile industry. <i>Benchmarking</i> , 2017, 24, 1767-1783.	4.6	23
53	Teaching lean manufacturing at a postgraduate level. <i>International Journal of Lean Six Sigma</i> , 2018, 9, 301-323.	3.3	23
54	Planejamento sistemático de layout com apoio de análise de decisão multicritério. <i>Production</i> , 2008, 18, 609-624.	1.3	22

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55	Help chain in companies undergoing a lean implementation. International Journal of Lean Six Sigma, 2018, 9, 113-132.	3.3	22
56	A framework proposition to identify customer value through lean practices. Journal of Manufacturing Technology Management, 2020, 31, 725-747.	6.4	22
57	Analysing the influence of organisational culture and leadership styles on the implementation of lean manufacturing. Production Planning and Control, 2021, 32, 1282-1294.	8.8	22
58	Digital Obeya Room: exploring the synergies between BIM and lean for visual construction management. Innovative Infrastructure Solutions, 2018, 3, 1.	2.2	21
59	Contributions of Industry 4.0 to supply chain resilience. International Journal of Logistics Management, 2022, 33, 547-566.	6.6	21
60	The impact of Industry 4.0 on the relationship between TPM and maintenance performance. Journal of Manufacturing Technology Management, 2022, 33, 489-520.	6.4	21
61	Supply chain performance: how lean practices efficiently drive improvements. Journal of Manufacturing Technology Management, 2018, 29, 829-845.	6.4	19
62	Assessment and prioritisation of Healthcare 4.0 implementation in hospitals using Quality Function Deployment. International Journal of Production Research, 2022, 60, 3147-3169.	7.5	19
63	Lean Supply Chain Management: A Systematic Literature Review of Practices, Barriers and Contextual Factors Inherent to Its Implementation. Management and Industrial Engineering, 2018, , 39-68.	0.4	18
64	Mediating role of learning organization on the relationship between total quality management and operational performance in Brazilian manufacturers. Journal of Manufacturing Technology Management, 2019, 31, 524-541.	6.4	18
65	Hoshin Kanri and A3: a proposal for integrating variability into the policy deployment process. TQM Journal, 2019, 31, 118-135.	3.3	18
66	Operations Management teaching practices and information technologies adoption in emerging economies during COVID-19 outbreak. Technological Forecasting and Social Change, 2021, 171, 120996.	11.6	18
67	Lean-Oriented Layout Design of a Health Care Facility. Quality Management in Health Care, 2019, 28, 25-32.	0.8	17
68	Bundles of Lean Automation practices and principles and their impact on operational performance. International Journal of Production Economics, 2021, 235, 108106.	8.9	17
69	Digital technologies: An exploratory study of their role in the resilience of healthcare services. Applied Ergonomics, 2021, 97, 103517.	3.1	17
70	Combining traditional teaching methods and PBL for teaching and learning of lean manufacturing. IFAC-PapersOnLine, 2018, 51, 915-920.	0.9	16
71	Literature review on lean healthcare implementation: assessment methods and practices. International Journal of Services and Operations Management, 2019, 32, 285.	0.2	16
72	The Last Border for Servitization. Procedia CIRP, 2016, 47, 394-399.	1.9	15

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73	How do different generations contribute to the development of a learning organization in companies undergoing a lean production implementation?. <i>Learning Organization</i> , 2019, 27, 101-115.	1.4	15
74	An initiative for integrating problem-based learning into a lean manufacturing course of an industrial engineering graduate program. <i>Production</i> , 2017, 27, .	1.3	14
75	Productivity improvement in solid waste recycling centres through lean implementation aided by multi-criteria decision analysis. <i>Benchmarking</i> , 2018, 25, 1480-1499.	4.6	14
76	Healthcare costsâ€™ reduction through the integration of Healthcare 4.0 technologies in developing economies. <i>Total Quality Management and Business Excellence</i> , 2022, 33, 467-487.	3.8	14
77	Lean and resilience in the healthcare supply chain â€™ a scoping review. <i>International Journal of Lean Six Sigma</i> , 2022, 13, 1058-1078.	3.3	14
78	Lean production myths: an exploratory study. <i>Journal of Manufacturing Technology Management</i> , 2020, 32, 1-19.	6.4	13
79	A Six Sigma Approach to Analyze Time-to-Assembly Variance of Surgical Trays in a Sterile Services Department. <i>Journal for Healthcare Quality: Official Publication of the National Association for Healthcare Quality</i> , 2018, 40, e46-e53.	0.7	12
80	Simulation-based analysis of inventory strategies in lean supply chains. <i>IFAC-PapersOnLine</i> , 2018, 51, 1453-1458.	0.9	12
81	An overview of 42 years of lean production: applying bibliometric analysis to investigate strategic themes and scientific evolution structure. <i>Technology Analysis and Strategic Management</i> , 2021, 33, 1068-1087.	3.5	12
82	COVID-19 Implications on the Relationship between Organizational Learning and Performance. <i>Knowledge Management Research and Practice</i> , 2021, 19, 551-564.	4.1	12
83	Soft and hard skills development in lean management trainings. <i>International Journal of Lean Six Sigma</i> , 2022, 13, 1137-1158.	3.3	12
84	Digitalization of maintenance: exploratory study on the adoption of Industry 4.0 technologies and total productive maintenance practices. <i>Production Planning and Control</i> , 2024, 35, 352-372.	8.8	12
85	Psychophysical Demands and Perceived Workload-An Ergonomics Standpoint for Lean Production in Assembly Cells. <i>Human Factors and Ergonomics in Manufacturing</i> , 2016, 26, 643-654.	2.7	11
86	Influence of team membersâ€™ characteristics on the sustainability of continuous improvement initiatives. <i>Total Quality Management and Business Excellence</i> , 2021, 32, 852-868.	3.8	11
87	Simulation-based analysis of lean practices implementation on the supply chain of a public hospital. <i>Production</i> , 0, 30, .	1.3	11
88	Resilience development and digitalization of the healthcare supply chain: an exploratory study in emerging economies. <i>International Journal of Logistics Management</i> , 2023, 34, 130-163.	6.6	11
89	Layout performance indicators and systematic planning. <i>British Food Journal</i> , 2015, 117, 2098-2111.	2.9	10
90	A systematic literature review on the stochastic analysis of value streams. <i>Production Planning and Control</i> , 2021, 32, 121-131.	8.8	10

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91	Hospital Investment Decisions in Healthcare 4.0 Technologies: Scoping Review and Framework for Exploring Challenges, Trends, and Research Directions. Journal of Medical Internet Research, 2021, 23, e27571.	4.3	10
92	Assessing the adoption of critical success factors for lean six sigma implementation. Journal of Manufacturing Technology Management, 2022, 33, 124-145.	6.4	10
93	Customized prediction of attendance to soccer matches based on symbolic regression and genetic programming. Expert Systems With Applications, 2022, 187, 115912.	7.6	10
94	Implementation of Lean and Green practices: a supplier-oriented assessment method. Production Engineering, 2017, 11, 531-543.	2.3	9
95	Proposition of a method for stochastic analysis of value streams. Production Planning and Control, 2022, 33, 741-757.	8.8	9
96	The driving and dependence power between Lean leadership competencies: an integrated ISM/fuzzy MICMAC approach. Production Planning and Control, 2023, 34, 1037-1061.	8.8	9
97	Assessment of Lean implementation in Hotels™ supply chains. Production, 0, 29, .	1.3	8
98	The moderating role of just-in-time on sociotechnical practices' effect over quality and workers' health. Human Factors and Ergonomics in Manufacturing, 2019, 29, 210-223.	2.7	8
99	Information and communication technologies in emergency care services for patients with COVID-19: a multi-national study. International Journal of Production Research, 2023, 61, 8384-8400.	7.5	8
100	Lean Product Development (LPD) Enablers for Product Development Process Improvement. , 2015, , 31-57.		8
101	A comprehensive framework for classification and selection of H4.0 digital technologies affecting healthcare processes in the grey environment. TQM Journal, 2022, 34, 1914-1941.	3.3	8
102	Determining the Critical Failure Factors for Industry 4.0: An Exploratory Sequential Mixed Method Study. IEEE Transactions on Engineering Management, 2024, 71, 1862-1876.	3.5	8
103	Analysis of the relationship between barriers and practices in the lean supply chain management. International Journal of Lean Six Sigma, 2021, 12, 607-626.	3.3	7
104	Critical success factors-based taxonomy for Lean Public Management: a systematic review. Production, 0, 30, .	1.3	7
105	Lean production, information and communication technologies and operational performance. Total Quality Management and Business Excellence, 2023, 34, 183-200.	3.8	7
106	Lean and Green Product Development in SMEs: A Comparative Study between Small- and Medium-Sized Brazilian and Japanese Enterprises. Journal of Open Innovation: Technology, Market, and Complexity, 2022, 8, 123.	5.2	7
107	Analysis of the Implementation of a Lean Service in a Shared Service Center: A Study of Stability and Capacity. IEEE Transactions on Engineering Management, 2020, 67, 334-346.	3.5	6
108	An empirical investigation on learning and teaching lean manufacturing. Education and Training, 2020, 62, 339-354.	3.1	6

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109	Relationships between competences and lean automation practices: an exploratory study. <i>Production Planning and Control</i> , 2023, 34, 689-704.	8.8	6
110	Forecasting the length-of-stay of pediatric patients in hospitals: a scoping review. <i>BMC Health Services Research</i> , 2021, 21, 938.	2.2	6
111	Quantitative demand forecasting adjustment based on qualitative factors: case study at a fast food restaurant. <i>Sistemas & Gest�o</i> , 2018, 13, 68-80.	0.1	6
112	Lean layout design: a case study applied to the textile industry. <i>Production</i> , 0, 31, .	1.3	6
113	Digital transformation of health services: a value stream-oriented approach. <i>International Journal of Production Research</i> , 2023, 61, 1814-1828.	7.5	6
114	Assessment methodology for Lean Practices in healthcare organizations: case study in a Brazilian public hospital. <i>Production</i> , 2019, 29, .	1.3	5
115	Managing practitioners' experience and generational differences for adopting lean production principles. <i>TQM Journal</i> , 2019, 31, 758-771.	3.3	5
116	Design of a methodology to incorporate Lean Manufacturing tools in risk management, to reduce work accidents at service companies. <i>Procedia Computer Science</i> , 2020, 177, 276-283.	2.0	5
117	Identification of the relationships between critical success factors, barriers and practices for lean implementation in a small company. <i>Brazilian Journal of Operations and Production Management</i> , 2018, 15, 232-246.	1.4	5
118	Lean manufacturing and human resources: a systematic literature review on future research suggestions. <i>Total Quality Management and Business Excellence</i> , 2023, 34, 468-495.	3.8	5
119	A Literature Review on Lean Manufacturing in Small Manufacturing Companies. <i>Management and Industrial Engineering</i> , 2018, , 69-89.	0.4	3
120	A fuzzy maturity-based method for lean supply chain management assessment. <i>International Journal of Lean Six Sigma</i> , 2021, ahead-of-print, .	3.3	3
121	A Conceptual People-Centric Framework for Sustainable Operational Excellence. <i>Open Journal of Business and Management</i> , 2020, 08, 1034-1058.	0.7	3
122	The application of operational excellence methodologies in logistics: a systematic review and directions for future research. <i>Total Quality Management and Business Excellence</i> , 2023, 34, 538-557.	3.8	3
123	Variable selection framework for allocating products to recommended replenishment models in VMI applications. <i>Journal of Advances in Management Research</i> , 2017, 14, 128-142.	3.0	2
124	Association Between Lean Manufacturing Teaching Methods and Students' Learning Preferences. <i>Management and Industrial Engineering</i> , 2018, , 105-128.	0.4	2
125	Reliability of internal logistics distribution in a hospital. <i>TQM Journal</i> , 2021, 33, 596-617.	3.3	2
126	Paper-based thesis and dissertations: analysis of fundamental characteristics for achieving a robust structure. <i>Production</i> , 0, 31, .	1.3	2

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127	Association between distribution centre design and contextual characteristics. <i>Journal of Facilities Management</i> , 2022, 20, 172-192.	1.8	2
128	User-centered requirement elicitation for the procurement of medical equipment used by different services and types of end-users. <i>Human Factors and Ergonomics in Manufacturing</i> , 0, , .	2.7	2
129	Literature review on lean healthcare implementation: assessment methods and practices. <i>International Journal of Services and Operations Management</i> , 2019, 32, 285.	0.2	2
130	Lean accounting: a structured literature review. <i>TQM Journal</i> , 2022, 34, 1547-1571.	3.3	2
131	Impact of Industry 4.0 adoption on workload demands in contact centers. <i>Human Factors and Ergonomics in Manufacturing</i> , 2022, 32, 406-418.	2.7	2
132	Torsional Strength for Induction Hardened Shafts Applied in Homocinetic Half Shafts. , 2004, , .		1
133	Organizational climate research: a proposed approach focused on banking institutions. <i>Business Process Management Journal</i> , 2015, 21, 1377-1390.	4.2	1
134	Modelo de relações entre os riscos que afetam a implantação de produção enxuta. <i>Gestão & Produção</i> , 2018, 25, 696-712.	0.5	1
135	Mass Customization Process in Companies from the Housing Sector in Brazil. <i>Management and Industrial Engineering</i> , 2019, , 99-118.	0.4	1
136	Australian manufacturing industry: a 20-year scoping study on barriers, opportunities and trends for its strategic development. <i>Production</i> , 0, 31, .	1.3	1
137	Design of lean manufacturing-based strategies to improve the production process of a metalworking company. <i>International Journal of Services and Operations Management</i> , 2021, 38, 566.	0.2	1
138	Supplier Involvement in New Product Development: A Study in the Brazilian Footwear Industry. <i>Leather and Footwear Journal</i> , 2017, 17, 17-30.	0.2	1
139	Análise do efeito das práticas sociotécnicas no desempenho em qualidade e saúde dos colaboradores em empresas com implementação Lean. <i>Cuadernos De Administracion</i> , 2018, 31, 31-54.	0.4	1
140	Developing a robust measurement instrument for the influence of national culture on lean production systems. <i>Measuring Business Excellence</i> , 2022, ahead-of-print, .	2.4	1
141	The Application of Design of Experiments as Support Tool for the Development of a Driveshaft Component Manufacturing Process. , 2004, , .		0
142	Fatores críticos de sucesso da cadeia de ajuda em uma implementação enxuta: uma pesquisa exploratória sobre a qualidade e eficiência de desempenho. , 2017, 18, .		0
143	Identificação dos relacionamentos entre os fatores críticos de sucesso, barreiras e práticas para a implementação enxuta em uma pequena empresa. <i>Revista Produção Online</i> , 2018, 18, 1422-1444.	0.2	0
144	Lean production teaching methods and learning assessment: a literature review. <i>International Journal of Information and Operations Management Education</i> , 2021, 7, 1.	0.2	0

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145	Implementing a material planning and control method for special nutrition in a Brazilian public hospital. International Journal of Health Planning and Management, 2021, , .	1.7	0
146	Improvements in the processing of agricultural commodities: The case of cocoa liquor. DYNA (Colombia), 2017, 84, 117.	0.4	0
147	Relationship Between Operational Performance and Help Chain Critical Success Factors. Lecture Notes in Management and Industrial Engineering, 2018, , 269-276.	0.4	0