

# TarcÃ-sio Abreu Saurin

## List of Publications by Year in descending order

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Version: 2024-02-01

125  
papers

3,238  
citations

159573

30  
h-index

175241

52  
g-index

130  
all docs

130  
docs citations

130  
times ranked

2064  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Relationships between competences and lean automation practices: an exploratory study. <i>Production Planning and Control</i> , 2023, 34, 689-704.	8.8	6
3	Information and communication technologies in emergency care services for patients with COVID-19: a multi-national study. <i>International Journal of Production Research</i> , 2023, 61, 8384-8400.	7.5	8
4	Lean-as-imagined differs from lean-as-done: the influence of complexity. <i>Production Planning and Control</i> , 2022, 33, 1097-1114.	8.8	16
5	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
6	How to identify key players that contribute to resilient performance: A social network analysis perspective. <i>Safety Science</i> , 2022, 148, 105648.	4.9	14
7	The impact of Industry 4.0 on the relationship between TPM and maintenance performance. <i>Journal of Manufacturing Technology Management</i> , 2022, 33, 489-520.	6.4	21
8	Coping with complexity in the COVID pandemic: An exploratory study of intensive care units. <i>Human Factors and Ergonomics in Manufacturing</i> , 2022, 32, 301-318.	2.7	5
9	Integrating Safety-I and Safety-II: Learning from failure and success in construction sites. <i>Safety Science</i> , 2022, 148, 105672.	4.9	14
10	Design for resilient performance: Concept and principles. <i>Applied Ergonomics</i> , 2022, 101, 103707.	3.1	15
11	The Built Environment Influence on Resilient Healthcare: A Systematic Literature Review of Design Knowledge. <i>Herd</i> , 2022, 15, 329-350.	1.5	4
12	The nature and role of informal resilience practices in the performance of lean production systems. <i>Journal of Manufacturing Technology Management</i> , 2022, 33, 1080-1101.	6.4	5
13	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
14	A method for assessing pull production systems: a study of manufacturing, healthcare, and construction. <i>Production Planning and Control</i> , 2021, 32, 1063-1083.	8.8	7
15	A framework for analyzing how context influences lean leadership. <i>International Journal of Lean Six Sigma</i> , 2021, 12, 149-174.	3.3	9
16	A complexity thinking account of the COVID-19 pandemic: Implications for systems-oriented safety management. <i>Safety Science</i> , 2021, 134, 105087.	4.9	17
17	Computational Platform for Training Hydroelectric Power Plant Operators in Resilience Skills. <i>Lecture Notes in Networks and Systems</i> , 2021, , 543-550.	0.7	0
18	Managing Complexity and Manifestations of Resilience in Operating Theatres. , 2021, , 19-30.		5

#	ARTICLE	IF	CITATIONS
19	Monitor, anticipate, respond, and learn: Developing and interpreting a multilayer social network of resilience abilities. <i>Safety Science</i> , 2021, 136, 105148.	4.9	11
20	Making resilience explicit in FRAM: Shedding light on desired outcomes. <i>Human Factors and Ergonomics in Manufacturing</i> , 2021, 31, 579-597.	2.7	12
21	Bundles of Lean Automation practices and principles and their impact on operational performance. <i>International Journal of Production Economics</i> , 2021, 235, 108106.	8.9	17
22	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
23	A systems thinking based method for assessing safety management best practices in construction. <i>Safety Science</i> , 2021, 141, 105345.	4.9	8
24	A resilience engineering-based framework for assessing safety performance measurement systems: A study in the construction industry. <i>Safety Science</i> , 2021, 142, 105364.	4.9	9
25	Digital technologies: An exploratory study of their role in the resilience of healthcare services. <i>Applied Ergonomics</i> , 2021, 97, 103517.	3.1	17
26	Choosing fall protection systems in construction sites: Coping with complex rather than complicated systems. <i>Safety Science</i> , 2021, 143, 105412.	4.9	4
27	How the cockpit manages anomalies: revisiting the dynamic fault management model for aviation. <i>Cognition, Technology and Work</i> , 2020, 22, 143-157.	3.0	1
28	A taxonomy of interactions in socio-technical systems: A functional perspective. <i>Applied Ergonomics</i> , 2020, 82, 102980.	3.1	19
29	Monitoring complexity and resilience in construction projects: The contribution of safety performance measurement systems. <i>Applied Ergonomics</i> , 2020, 82, 102978.	3.1	49
30	Soluções de problemas em uma emergência hospitalar: avaliação dos métodos A3 e análise de causa raiz. <i>Revista Produção Online</i> , 2020, 20, 63-94.	0.2	3
31	Lean production myths: an exploratory study. <i>Journal of Manufacturing Technology Management</i> , 2020, 32, 1-19.	6.4	13
32	Integrated modelling of built environment and functional requirements: Implications for resilience. <i>Applied Ergonomics</i> , 2020, 88, 103154.	3.1	23
33	A resilience engineering perspective of safety performance measurement systems: A systematic literature review. <i>Safety Science</i> , 2020, 130, 104864.	4.9	28
34	The Last Planner® System as an approach for coping with the complexity of construction projects. , 2020, , 325-340.		4
35	Visual Management in Healthcare: A Systematic Literature Review of Main Practices and Applications. <i>Springer Proceedings in Mathematics and Statistics</i> , 2020, , 177-191.	0.2	1
36	Coping with complexity in intensive care units: A systematic literature review of improvement interventions. <i>Safety Science</i> , 2019, 118, 814-825.	4.9	22

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37	How can general leadership theories help to expand the knowledge of lean leadership?. Production Planning and Control, 2019, 30, 1322-1336.	8.8	46
38	A complexity theory perspective of kaizen: a study in healthcare. Production Planning and Control, 2019, 30, 1337-1353.	8.8	23
39	Aplicação do fram para solução de problemas em sistemas s³cio-t³cnicos complexos: estudo de caso em uma unidade hospitalar. Revista Produç³o Online, 2019, 19, 102-128.	0.2	1
40	The Functional Resonance Analysis Method as a Debriefing Tool in Scenario-Based-Training. Advances in Intelligent Systems and Computing, 2019, , 132-138.	0.6	4
41	Help chain: guidelines for design and operation in Lean Production Systems. Gest³o & Produç³o, 2019, 26, .	0.5	0
42	A vis³o da engenharia de resili³ncia sob o trabalho de operadores de sala de controle em uma distribuidora de energia el³trica. Revista Produç³o Online, 2019, 19, 617-639.	0.2	0
43	Losses in Water Distribution Systems: A Complexity Theory Perspective. Water Resources Management, 2018, 32, 2919-2936.	3.9	23
44	The impacts of lean production on the complexity of socio-technical systems. International Journal of Production Economics, 2018, 197, 342-357.	8.9	72
45	Modelling interactions between procedures and resilience skills. Applied Ergonomics, 2018, 68, 328-337.	3.1	20
46	Habilidades de resili³ncia em distribuidora de energia el³trica: recrutamento, seleç³o e treinamento de eletricitas e operadores do centro de operaç³es da distribuiç³o. Revista Produç³o Online, 2018, 18, 479-503.	0.2	0
47	Analysis of the preparation and administration of medications in the hospital context based on Lean thinking. Escola Anna Nery, 2018, 22, .	0.8	7
48	Modelo de relaç³es entre os riscos que afetam a implantaç³o de produç³o enxuta. Gest³o & Produç³o, 2018, 25, 696-712.	0.5	1
49	An³lise de acidente ambiental: estudo de caso usando o M³todo de An³lise da Resson³ncia Funcional. Engenharia Sanitaria E Ambiental, 2018, 23, 373-383.	0.5	2
50	The joint use of resilience engineering and lean production for work system design: A study in healthcare. Applied Ergonomics, 2018, 71, 45-56.	3.1	53
51	Where process improvement meets resilience. , 2018, , 174-185.		2
52	Reducing construction waste: A study of urban infrastructure projects. Waste Management, 2017, 67, 265-277.	7.4	80
53	Identification and assessment of requirements of temporary edge protection systems for buildings. International Journal of Industrial Ergonomics, 2017, 58, 90-108.	2.6	6
54	Lean production in complex socio-technical systems: A systematic literature review. Journal of Manufacturing Systems, 2017, 45, 135-148.	13.9	53

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55	Lean leadership competencies: a multi-method study. <i>Management Decision</i> , 2017, 55, 2163-2180.	3.9	34
56	A framework for the analysis of slack in socio-technical systems. <i>Reliability Engineering and System Safety</i> , 2017, 167, 439-451.	8.9	33
57	Uma análise das barreiras e dificuldades em lean healthcare. <i>Revista Produção Online</i> , 2017, 17, 620-640.	0.2	4
58	Resilience skills used by front-line workers to assemble precast concrete structures: an exploratory study. <i>Ambiente Construído</i> , 2017, 17, 25-43.	0.4	8
59	A framework to select innovations in patents to improve temporary edge protection systems in buildings. <i>Ambiente Construído</i> , 2017, 17, 137-151.	0.4	2
60	IDENTIFICANDO OPORTUNIDADES DE MELHORIA NO PROCESSO DE ALTA DO PACIENTE DE MATERNIDADE POR MEIO DO LEAN HEALTHCARE. <i>Ingeniería Industrial</i> , 2017, 16, 89-102.	0.0	3
61	Gestão de barreiras na implantação da produção enxuta: um estudo no setor automobilístico. <i>Revista Produção Online</i> , 2016, 16, 313.	0.2	5
62	Contextual factors and lean production implementation in the Brazilian automotive supply chain. <i>Supply Chain Management</i> , 2016, 21, 417-432.	6.4	115
63	Using a procedure doesn't mean following it: A cognitive systems approach to how a cockpit manages emergencies. <i>Safety Science</i> , 2016, 89, 147-157.	4.9	35
64	Safety inspections in construction sites: A systems thinking perspective. <i>Accident Analysis and Prevention</i> , 2016, 93, 240-250.	5.7	29
65	Resilience skills as emergent phenomena: A study of emergency departments in Brazil and the United States. <i>Applied Ergonomics</i> , 2016, 56, 227-237.	3.1	50
66	Ethics in Publishing: Complexity Science and Human Factors Offer Insights to Develop a Just Culture. <i>Science and Engineering Ethics</i> , 2016, 22, 1849-1854.	2.9	10
67	Identificação e classificação de riscos na implantação da produção enxuta. <i>Production</i> , 2015, 25, 911-925.	1.3	2
68	Avaliação de requisitos de desempenho de Sistemas de Proteção Periférica (SPP). <i>Ambiente Construído</i> , 2015, 15, 267-289.	0.4	3
69	A systematic literature review of resilience engineering: Research areas and a research agenda proposal. <i>Reliability Engineering and System Safety</i> , 2015, 141, 142-152.	8.9	232
70	Managing barriers to lean production implementation: context matters. <i>International Journal of Production Research</i> , 2015, 53, 3947-3962.	7.5	91
71	Classification and relationships between risks that affect lean production implementation. <i>Journal of Manufacturing Technology Management</i> , 2015, 26, 57-79.	6.4	61
72	Participatory ergonomics intervention for improving human and production outcomes of a Brazilian furniture company. <i>International Journal of Industrial Ergonomics</i> , 2015, 49, 97-107.	2.6	51

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73	How context factors influence lean production practices in manufacturing cells. International Journal of Advanced Manufacturing Technology, 2015, 79, 1389-1399.	3.0	37
74	Complex socio-technical systems: Characterization and management guidelines. Applied Ergonomics, 2015, 50, 19-30.	3.1	59
75	Findings from the Analysis of Incident-Reporting Systems of Construction Companies. Journal of Construction Engineering and Management - ASCE, 2015, 141, .	3.8	8
76	Avaliação de carga de trabalho em alunos de pós-graduação em engenharia de produção: um estudo exploratório. Gestão & Produção, 2015, 22, 678-690.	0.5	1
77	The design of scenario-based training from the resilience engineering perspective: A study with grid electricians. Accident Analysis and Prevention, 2014, 68, 30-41.	5.7	34
78	Uma sistemática para a avaliação de riscos na implantação de produção enxuta. Revista Produção Online, 2014, 14, 364.	0.2	2
79	Análise do campo conceitual da engenharia de sistemas cognitivos e proposta de uma nova agenda de pesquisa. Production, 2014, 24, 405-419.	1.3	2
80	Implementing lean production systems: research areas and opportunities for future studies. International Journal of Production Research, 2013, 51, 6663-6680.	7.5	291
81	A complex systems theory perspective of lean production. International Journal of Production Research, 2013, 51, 5824-5838.	7.5	79
82	Assessing the compatibility of the management of standardized procedures with the complexity of a sociotechnical system: Case study of a control room in an oil refinery. Applied Ergonomics, 2013, 44, 811-823.	3.1	36
83	Circadian Rhythms as a Basis for Work Organization. Human Factors, 2013, 55, 204-217.	3.5	2
84	Gestão de requisitos na construção civil: um estudo de caso focado nos requisitos ambientais de um projeto urbano. Production, 2013, 23, 345-363.	1.3	0
85	Diretrizes para identificação e análise de fontes de resiliência e fragilidades: estudo de caso em duas empresas de taxi-aéreo. Production, 2013, 23, 777-792.	1.3	1
86	Princípios para o projeto de sistemas de medição de desempenho em segurança e saúde no trabalho: a perspectiva da engenharia de resiliência. Production, 2013, 23, 387-401.	1.3	2
87	A influência das práticas de produção enxuta nos atributos qualificadores das células de manufatura. Revista Produção Online, 2013, 13, 1252.	0.2	1
88	Identification of non-technical skills from the resilience engineering perspective: a case study of an electricity distributor. Work, 2012, 41, 3069-3076.	1.1	19
89	A framework for assessing poka-yoke devices. Journal of Manufacturing Systems, 2012, 31, 358-366.	13.9	43
90	Characterizing complexity in socio-technical systems: a case study of a SAMU Medical Regulation Center. Work, 2012, 41, 1811-1817.	1.1	7

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91	Método para classificação de tipos de erros humanos: estudo de caso em acidentes em canteiros de obras. <i>Production</i> , 2012, 22, 259-269.	1.3	2
92	A framework for identifying and analyzing sources of resilience and brittleness: A case study of two air taxi carriers. <i>International Journal of Industrial Ergonomics</i> , 2012, 42, 312-324.	2.6	24
93	Avançando na implantação da logística interna lean: dificuldades e resultados alcançados no caso de uma empresa montadora de veículos. <i>Revista Produção Online</i> , 2012, 12, 455.	0.2	1
94	A framework for assessing the use of lean production practices in manufacturing cells. <i>International Journal of Production Research</i> , 2011, 49, 3211-3230.	7.5	125
95	O papel da gestão de requisitos em projetos de ambientes construídos: um estudo de caso. <i>Revista Produção Online</i> , 2011, 11, 965.	0.2	2
96	How a cockpit calculates its speeds and why errors while doing this are so hard to detect. <i>Cognition, Technology and Work</i> , 2011, 13, 217-231.	3.0	21
97	Evaluation and improvement of a method for assessing HSMS from the resilience engineering perspective: A case study of an electricity distributor. <i>Safety Science</i> , 2011, 49, 355-368.	4.9	63
98	Propostas de melhorias em um método de avaliação de sistemas de gestão de segurança e saúde no trabalho. <i>Production</i> , 2011, 21, 165-180.	1.3	0
99	A Framework For Identifying And Analyzing Sources Of Resilience And Brittleness: A Case Study Of An Air Taxi Carrier. , 2011, , 234-240.		0
100	Identification, analysis and dissemination of information on near misses: A case study in the construction industry. <i>Safety Science</i> , 2010, 48, 91-99.	4.9	96
101	Improving an algorithm for classifying error types of front-line workers: Insights from a case study in the construction industry. <i>Safety Science</i> , 2010, 48, 422-429.	4.9	8
102	Identificação de oportunidades de pesquisa a partir de um levantamento da implantação da produção enxuta em empresas do Brasil e do exterior. <i>Gestão &amp; Produção</i> , 2010, 17, 829-841.	0.5	30
103	Consciência situacional, tomada de decisão e modos de controle cognitivo em ambientes complexos. <i>Production</i> , 2009, 19, 433-444.	1.3	4
104	A method for assessing health and safety management systems from the resilience engineering perspective. <i>Safety Science</i> , 2009, 47, 1056-1067.	4.9	143
105	The impacts of lean production on working conditions: A case study of a harvester assembly line in Brazil. <i>International Journal of Industrial Ergonomics</i> , 2009, 39, 403-412.	2.6	116
106	Ergonomic assessment of suspended scaffolds. <i>International Journal of Industrial Ergonomics</i> , 2008, 38, 238-246.	2.6	30
107	An analysis of construction safety best practices from a cognitive systems engineering perspective. <i>Safety Science</i> , 2008, 46, 1169-1183.	4.9	100
108	An algorithm for classifying error types of front-line workers based on the SRK framework. <i>International Journal of Industrial Ergonomics</i> , 2008, 38, 1067-1077.	2.6	18

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109	Planejamento e controle integrado entre segurança e produção em processos cr�ticos na constru��o civil. Production, 2008, 18, 479-492.	1.3	2
110	Avalia��o qualitativa da implanta��o de pr�ticas da produ��o enxuta: estudo de caso em uma f�brica de m�quinas agr�colas. Gest�o & Produ��o, 2008, 15, 449-462.	0.5	14
111	Diretrizes para avalia��o dos impactos da produ��o enxuta sobre as condi��es de trabalho. Production, 2008, 18, 508-522.	1.3	3
112	An�lise das interfaces entre modelos causais de acidentes: um estudo de caso em atividades de manuten��o de um complexo hospitalar. Interface: Communication, Health, Education, 2008, 12, 835-852.	0.5	0
113	Ergonomic assessment of suspended scaffolds. International Journal of Industrial Ergonomics, 2006, 36, 229-237.	2.6	16
114	Analysis of a safety planning and control model from the human error perspective. Engineering, Construction and Architectural Management, 2005, 12, 283-298.	3.1	26
115	Seguran�a no trabalho e desenvolvimento de produto: diretrizes para integra��o na constru��o civil. Production, 2005, 15, 127-141.	1.3	2
116	Safety and production: an integrated planning and control model. Construction Management and Economics, 2004, 22, 159-169.	3.0	65
117	Seguran�a e produ��o: um modelo para o planejamento e controle integrado. Production, 2002, 12, 60-71.	1.3	2
118	The Built Environment�s Influence on Resilience of Healthcare Services: Lessons Learnt From the Covid-19 Pandemic. , 0, , .		1
119	Analysis of hospital flow management: the 3 R��s approach. Production, 0, 30, .	1.3	4
120	Removing Waste While Preserving Slack: The Lean and Complexity Perspectives. , 0, , .		6
121	The Role of Slack in Standardized Work in Construction: An Exploratory Study. , 0, , .		4
122	Boas pr�ticas e dificuldades para melhorar a sa�de e seguran�a do trabalho na constru��o civil durante a pandemia de COVID-19. , 0, , .		0
123	Principles for Safety Performance Measurement Systems Based on Resilience Engineering. , 0, , .		3
124	LEAN OFFICE: STUDY ON THE APPLICABILITY OF THE CONCEPT IN A DESIGN COMPANY. , 0, , .		1
125	Safety-I and safety-II: opportunities for an integrated approach in the construction industry. , 0, , .		2