

# Celina Pinto Leão

## List of Publications by Year in descending order

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Version: 2024-02-01

150  
papers

837  
citations

567281

15  
h-index

642732

23  
g-index

157  
all docs

157  
docs citations

157  
times ranked

700  
citing authors

#	ARTICLE	IF	CITATIONS
1	Industry 4.0 triggered by Lean Thinking: insights from a systematic literature review. <i>International Journal of Production Research</i> , 2021, 59, 1496-1510.	7.5	77
2	Lean Thinking contributions for Industry 4.0: a Systematic Literature Review. <i>IFAC-PapersOnLine</i> , 2019, 52, 904-909.	0.9	47
3	Transient and steady-state models for simulated moving bed processes: numerical solutions. <i>Computers and Chemical Engineering</i> , 2004, 28, 1725-1741.	3.8	34
4	Testing thermal comfort of trekking boots: An objective and subjective evaluation. <i>Applied Ergonomics</i> , 2013, 44, 557-565.	3.1	33
5	An Overview of Industrial Communication Networks. <i>Mechanisms and Machine Science</i> , 2015, , 933-940.	0.5	27
6	An economic perspective on the optimisation of a small-scale cogeneration system for the Portuguese scenario. <i>Energy</i> , 2012, 45, 436-444.	8.8	26
7	Safe controllers design for industrial automation systems. <i>Computers and Industrial Engineering</i> , 2011, 60, 635-653.	6.3	22
8	Waste identification diagram and value stream mapping. <i>International Journal of Lean Six Sigma</i> , 2019, 10, 767-783.	3.3	22
9	Automation and Control Remote Laboratory: A Pedagogical Tool. <i>International Journal of Electrical Engineering and Education</i> , 2014, 51, 54-67.	0.8	21
10	Defining risk acceptance criteria in occupational settings: A case study in the furniture industrial sector. <i>Safety Science</i> , 2015, 80, 288-295.	4.9	21
11	RePhyS: A Multidisciplinary Experience in Remote Physiological Systems Laboratory. <i>International Journal of Online and Biomedical Engineering</i> , 2013, 9, 21.	1.4	21
12	A comparison of manual anthropometric measurements with Kinect-based scanned measurements in terms of precision and reliability. <i>Work</i> , 2018, 59, 325-339.	1.1	20
13	Web-Assisted Laboratory for Control Education: Remote and Virtual Environments. <i>Communications in Computer and Information Science</i> , 2012, , 62-72.	0.5	19
14	Characterization of blood samples using image processing techniques. <i>Sensors and Actuators A: Physical</i> , 2011, 172, 308-314.	4.1	17
15	Safety climate and its relationship with furniture companies'™ safety performance and workers'™ risk acceptance. <i>Theoretical Issues in Ergonomics Science</i> , 2015, 16, 412-428.	1.8	17
16	Risk Criteria in Occupational Environments: Critical Overview and Discussion. <i>Procedia, Social and Behavioral Sciences</i> , 2014, 109, 257-262.	0.5	16
17	Drivers for OSH interventions in small and medium-sized enterprises. <i>International Journal of Occupational Safety and Ergonomics</i> , 2016, 22, 102-115.	1.9	16
18	Skeleton Driven Action Recognition Using an Image-Based Spatial-Temporal Representation and Convolution Neural Network. <i>Sensors</i> , 2021, 21, 4342.	3.8	16

#	ARTICLE	IF	CITATIONS
19	Simulation of true moving bed adsorptive reactor: Detailed particle model and linear driving force approximations. <i>Chemical Engineering Science</i> , 2007, 62, 1026-1041.	3.8	15
20	Design and Development of an Industrial Network Laboratory. <i>International Journal of Emerging Technologies in Learning</i> , 0, 6, 21-26.	1.3	15
21	Design of a Lean Methodology for an Ergonomic and Sustainable Work Environment in Textile and Garment Industry. , 2012, , .		14
22	What do organizational leaders need from lean graduate programming. <i>European Journal of Training and Development</i> , 2016, 40, 302-320.	2.2	13
23	Effective Tools to Learn Lean Thinking and Gather Together Academic and Practice Communities. , 2017, , .		13
24	Project-Based Learning and its Effects on Freshmen Social Skills in an Engineering Program. , 2018, , .		13
25	A symbiotic relationship between Lean Production and Ergonomics: insights from Industrial Engineering final year projects. <i>International Journal of Industrial Engineering and Management</i> , 2019, 10, 243-256.	2.0	12
26	How Could the TRIZ Tool Help Continuous Improvement Efforts of the Companies?. <i>Procedia Engineering</i> , 2015, 131, 343-351.	1.2	11
27	Contributions of Lean Thinking Principles to Foster Industry 4.0 and Sustainable Development Goals. , 2019, , 129-159.		11
28	Risk Acceptance in the Furniture Sector: Analysis of Acceptance Level and Relevant Influence Factors. <i>Human and Ecological Risk Assessment (HERA)</i> , 2015, 21, 1361-1378.	3.4	10
29	Integrating Science, Technology, Engineering and Mathematics contents through PBL in an Industrial Engineering and Management first year program. <i>Production</i> , 2019, 29, .	1.3	10
30	Multilevel model of safety climate for furniture industries. <i>Work</i> , 2015, 51, 557-570.	1.1	9
31	The knowledge and importance of Lean Education based on academics' perspectives: an exploratory study. <i>Production Planning and Control</i> , 2021, 32, 497-510.	8.8	9
32	Teaching differential equations in different environments: A first approach. <i>Computer Applications in Engineering Education</i> , 2010, 18, 555-562.	3.4	7
33	K-12, university students and robots: An early start. , 2011, , .		7
34	Students' Perceptions Regarding Assessment Changes in a Fluid Mechanics Course. <i>Education Sciences</i> , 2019, 9, 152.	2.6	7
35	Implementing Lean Production to Promote Textile and Clothing Industry Sustainability. , 2019, , 319-343.		7
36	Interpreting Students' Perceptions in Fluid Mechanics Learning Outcomes. <i>Education in the Knowledge Society</i> , 2015, 16, 73-90.	2.0	7

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37	Issues in remote laboratory developments for biomedical engineering education. , 2013, , .		6
38	Freshman's perceptions in electrical/electronic engineering courses. , 2015, , .		5
39	Measurement Rounding Errors in an Assessment Model of Project Led Engineering Education. International Journal of Online and Biomedical Engineering. 2009, 5, 39.	1.4	5
40	An Early Start in Robotics - K-12 Case-Study. International Journal of Engineering Pedagogy, 2011, 1, 50.	1.1	5
41	Automation & Control remote laboratory: Evaluating a cooperative methodology. , 2012, , .		4
42	Learning challenges: Remote labs powered by the five senses. , 2013, , .		4
43	Real-time emotions recognition system. , 2016, , .		4
44	A serious game concept to enhance students' learning of statistics. , 2017, , .		4
45	Safety Training and Occupational Accidents " Is There a Link?. Advances in Intelligent Systems and Computing, 2020, , 536-543.	0.6	4
46	Gender Differences in Students's Assessment in a Fluid Mechanics Course. , 2020, , .		4
47	Industrial Network Platform for Monitoring and Control of Automated Manufacturing Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 168-173.	0.4	3
48	Digital Control iBook: A Flashier Way to Study. , 2012, , .		3
49	Shedding light on important mentorship relationships issues in advanced engineering education. , 2013, , .		3
50	Students' perspectives on remote physiological signals acquisition experiments. , 2013, , .		3
51	Definition of a Protocol for Implementing Lean Production Methodology in Textile and Clothing Case Studies. , 2013, , .		3
52	System for Assistance on Bath of Bedridden Elderly People. , 2014, , .		3
53	Engineering students' learning styles in fluid mechanics. , 2014, , .		3
54	PAIR: The Remote Industrial Automation Trainer. , 2014, , .		3

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55	Action, Practice and Research in Project Based Learning in an Industrial Engineering and Management Program. , 2015, , .		3
56	Talking about mentoring relationships from the perspectives of PhD students: A conceptual model development. , 2015, , .		3
57	Lean Education Impact in Professional Life of Engineers. , 2016, , .		3
58	A Fuzzy Logic Approach in the Definition of Risk Acceptance Boundaries in Occupational Safety and Health. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2016, 2, .	1.1	3
59	Peer assessment in PBL: Does gender matter?. , 2017, , .		3
60	Study of the Knowledge and Impact of Artificial Intelligence on an Academic Community. , 2018, , .		3
61	Management of the Benefits on the Clientâ€™s Involvement on Ergonomic Analysis. Communications in Computer and Information Science, 2010, , 1-8.	0.5	3
62	Games Development for Pedagogical and Educational Purposes. , 2011, , 1-9.		3
63	Mentoring Relationships: Shedding Light on PhD Student Perspective. Advances in Intelligent Systems and Computing, 2015, , 235-244.	0.6	3
64	An Interface for Industrial Network Monitoring and Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 180-185.	0.4	2
65	Students' perception on using WALC platform for Automation and Process Control engineering studies. , 2011, , .		2
66	A lining for the Thermal Comfort of Trekking Boots â€™ Experimental and Numerical Studies. Research Journal of Textile and Apparel, 2011, 15, 50-61.	1.1	2
67	Remote physiological data acquisition: From the human body to electromechanical simulators. , 2013, , .		2
68	Development, Test and Validation of a Mechatronic Device for Spasticity Quantification. International Journal of Advanced Robotic Systems, 2013, 10, 259.	2.1	2
69	Mechanical simulation model of the systemic circulation. Measurement: Journal of the International Measurement Confederation, 2015, 66, 212-221.	5.0	2
70	Industrial controlling process using the remote industrial automation trainer PAIR. AIP Conference Proceedings, 2015, , .	0.4	2
71	What engineering students tell us about to know mathematics and statistics in their courses?. , 2016, , .		2
72	Portuguese and Brazilian students perceptions regarding the flow of knowledge in their courses: Two different realities?. , 2016, , .		2

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73	Validation of a Methodology to Implement Lean Production in Textile and Clothing Industry. , 2017, , .		2
74	Tutoring Experiences in PBL of Industrial Engineering and Management Program: Teachers vs Students. , 2017, , .		2
75	Is students' satisfaction in electrical engineering courses influenced by gender?. , 2017, , .		2
76	To be or not to be an engineer? â€œ Perceptions among 3rd cycle basic school students. , 2017, , .		2
77	Assessment of the intraday variability of anthropometric measurements in the work environment: a pilot study. International Journal of Occupational Safety and Ergonomics, 2018, 24, 516-526.	1.9	2
78	Multi-Model Adaptive Predictive Control System for Automated Regulation of Mean Blood Pressure. International Journal of Online and Biomedical Engineering, 2019, 15, 69.	1.4	2
79	Serious Game for Teaching Statistics in Higher Education: Storyboard Design. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 169-175.	0.3	2
80	Project Management Practices at Portuguese Startups. Advances in Intelligent Systems and Computing, 2019, , 39-49.	0.6	2
81	An Experimental Analysis of Ergonomics in an Assembly Line in a Portuguese Automotive Industry. Studies in Systems, Decision and Control, 2019, , 485-491.	1.0	2
82	Women and STEM: A methodology for studying factors affecting attractivity. , 2021, , .		2
83	Capturing the Ups and Downs of Accidentsâ€™ Figures â€œ The Portuguese Case Study. Advances in Intelligent Systems and Computing, 2019, , 675-681.	0.6	2
84	A melhoria organizacional como alavanca para melhores condiÃ§Ãµes de trabalho. RISTI - Revista Iberica De Sistemas E Tecnologias De Informacao, 2015, , .	0.2	2
85	Development and Implementation of Dashboards for Operational Monitoring Using Participatory Design in a Lean Context. Advances in Intelligent Systems and Computing, 2018, , 237-249.	0.6	2
86	Your Turn to Learn â€œ Flipped Classroom in Automation Courses. Lecture Notes in Electrical Engineering, 2021, , 668-675.	0.4	2
87	The Relationship of Higher Education Access with Final Marks in a Core Chemical Engineering Topic. , 2020, , .		2
88	Ten Years of Positive Feedback on Project-Based Learning From First-Year Engineering Studentsâ€™ Perspective. , 2020, , .		2
89	Thermo-Economic Optimization in the Design of Small-Scale and Residential Cogeneration Systems. , 2009, , .		1
90	Ergonomic tridimensional analysis: critical ergonomic factors identification in a commercial environmental. Work, 2012, 41, 636-641.	1.1	1

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91	Remote physiological signals acquisition: Didactic experiments. , 2014, , .		1
92	Internship assessment from company supervisor's viewpoints. , 2015, , .		1
93	Design of a Conceptual Bed Mattress for Reducing Pressure on Bony Prominences. , 2015, , .		1
94	Quality Management and Ergonomics: An Integrative Approach through the ETdA System Approach. Procedia Engineering, 2015, 131, 410-417.	1.2	1
95	Students' expectations analysis before and after a curricular internship. , 2016, , .		1
96	Eggs, Oranges and Other Technological Devices in Science Dissemination. , 2016, , .		1
97	A student-friendly approach in teaching/learning theoretical concepts in automation. , 2017, , .		1
98	Educational games for children with special needs: Preliminary design. , 2017, , .		1
99	Control Engineering Learning by Integrating App-Inventor Based Experiments. Lecture Notes in Electrical Engineering, 2017, , 845-855.	0.4	1
100	Teaching Impact and Evaluation Methodology Assessment in a Fluid Mechanics Course: Student's Perceptions. , 2017, , .		1
101	General Satisfaction in Chemical and Biological Engineering Courses: What Matters? : A students' perception study. , 2018, , .		1
102	Understand the Importance of Garments' Identification and Combination to Blind People. Lecture Notes in Networks and Systems, 2022, , 74-81.	0.7	1
103	Analyzing and Classifying Risks: A Case-Study in the Furniture Industry. Studies in Systems, Decision and Control, 2019, , 81-87.	1.0	1
104	Perspectives of Entrepreneurship in Engineering Education: An Exploratory Study. Lecture Notes in Electrical Engineering, 2019, , 1104-1110.	0.4	1
105	The Flow of Knowledge and Level of Satisfaction in Engineering Courses Based on Students' Perceptions. , 2018, , 55-73.		1
106	Risk Decision: Main Constraints and Approaches. , 2012, , .		1
107	Perceptions and Understandings on the Need of Change: Viewpoints across Management Levels. Advances in Intelligent Systems and Computing, 2015, , 245-254.	0.6	1
108	Practical Work and Assessment to Stimulate Students' Participation and Motivation in Fluid Transport Issues. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
109	Cheat Sheets and Padlet: a metacognitive learning tool. , 2020, , .		1
110	Higher Education Studentsâ€™ Perception and Behavior During Pandemic Reality: A Pilot Study. , 2020, , .		1
111	Incorporating Team-Based Learning into a Fluid Mechanics Module: First Insights. , 2021, , .		1
112	Development and Evaluation of a Micro-Cogeneration Prototype for Residential Applications. , 2010, , .		0
113	Incorporating an e-book into digital control studies. , 2011, , .		0
114	Remote physiological systems (RePhyS) laboratory: A didactic learning environment. , 2013, , .		0
115	A multidisciplinary experience in Remote Physiological Systems laboratory. , 2013, , .		0
116	Reinterpreting the cardiovascular system as a mechanical model. , 2013, , .		0
117	Factors That Can Influence Mentorship Relationships in Advanced Education: Critical Insight. , 2013, , .		0
118	Modeling and Simulation of Physical Parameters of Human Respiratory System. Applied Mechanics and Materials, 0, 658, 447-452.	0.2	0
119	QR codes and Java applied to physiological data acquisition in biomedical engineering education. AIP Conference Proceedings, 2015, , .	0.4	0
120	MATLAB Simulation of Autonomous Servo Driven Oil-Hydraulic Power Unit. , 2016, , .		0
121	Reverse Logistics Companiesâ€™ Perspective: A Qualitative Analysis. Studies in Systems, Decision and Control, 2017, , 105-115.	1.0	0
122	Studentsâ€™ Perceptions and Effects Towards New Teaching Approach in Energy and Environment. , 2017, , .		0
123	Design, implementation and preliminary tests of E-ducation platform. , 2017, , .		0
124	A Reflection of a Pedagogic Approach in an Engineering Course. , 2018, , .		0
125	Dealing With Student Profile Diversity in an Industrial Engineering and Management Program: PBL vs â€œNon-PBLâ€, 2018, , .		0
126	STEM, high school students, gender: are they compliant issues?. , 2018, , .		0



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127	An Adaptive Serious Game of Statistics: project development and mechanisms. , 2019, , .		0
128	How Ergonomics Is Contributing to Overall Equipment Effectiveness: A Case Study. Advances in Intelligent Systems and Computing, 2020, , 24-32.	0.6	0
129	Downstream Applications: How is Safety Targeted?. Lecture Notes in Networks and Systems, 2022, , 1258-1266.	0.7	0
130	Engineering Student Attitude Towards New Technologies Employed in Active Teaching. Advances in Intelligent Systems and Computing, 2021, , 647-656.	0.6	0
131	Axial variation of droplet distribution in a venturi scrubber. WIT Transactions on Ecology and the Environment, 2008, , .	0.0	0
132	Special issue with selected papers from the 10th International Conference Virtual University Bratislava. International Journal of Emerging Technologies in Learning, 2011, 6, .	1.3	0
133	Specialized Knowledge Systems “ A Model for Intelligent Learning Management within Organizations. Advances in Intelligent Systems and Computing, 2013, , 133-141.	0.6	0
134	ETdAnalyser. Advances in Human and Social Aspects of Technology Book Series, 2014, , 284-300.	0.3	0
135	Computational numerical approaches in the simulation of SMB process. , 1999, , 263-270.		0
136	Perspectivas individuais sobre a necessidade de mudan�a: estudo de caso na Ind�stria T�xtil e do Vestu�rio Portuguesa. RISTI - Revista Iberica De Sistemas E Tecnologias De Informacao, 2014, , .	0.2	0
137	Conceptual Model for Specialized Learning Systems within Organizations. International Journal of Systems and Service-Oriented Engineering, 2014, 4, 19-34.	0.6	0
138	Assessing Remote Physiological Signals Acquisition Experiments. , 2014, , .		0
139	The Application of a Fuzzy Approach to the Analysis of OSH Practitioners Level of Risk Acceptance. , 2014, , .		0
140	Multiple Model SPGPC for Blood Pressure Control. , 2015, , .		0
141	�m an Outlier! Is This Important? - Answers Based on a Satisfaction and Perception Questionnaire. Advances in Intelligent Systems and Computing, 2017, , 526-538.	0.6	0
142	Suitability of agroindustrial residues for cellulose-based materials production. , 2017, , 417-423.		0
143	Parametric Sensitivity Analysis of a Multiple Model Adaptive Predictive Control for Regulation of Mean Arterial Blood Pressure. , 2018, , .		0
144	Labor claims and certification in occupational health and safety management. , 2018, , 413-418.		0

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145	Lean Production in a High Fashion Garment Company: Challenges and Solutions. Lecture Notes on Multidisciplinary Industrial Engineering, 2020, , 183-193.	0.6	0
146	A Proposed Representative Sampling Methodology. , 2020, , .		0
147	Evidence of the Use of Fuzzy Techniques in Occupational Safety. Advances in Intelligent Systems and Computing, 2020, , 178-184.	0.6	0
148	Hybrid Approach to Promote Social Interaction with Children with Autism Spectrum Disorder. , 2021, , .		0
149	DIVERSIDADE DE METODOLOGIAS E DE ABORDAGENS NA EDUCAÇÃO: QUANDO O TODO É MAIOR QUE A SOMA DAS PARTES. Cadernos De Educação, Tecnologia E Sociedade, 2020, 13, 272.	0.1	0
150	The Use of Blogs in a Project-Based Learning Context for First-Year Engineering Students' Teams. , 2020, , .		0