

David Romero

List of Publications by Year in descending order

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113
papers

4,040
citations

172457

29
h-index

138484

58
g-index

115
all docs

115
docs citations

115
times ranked

2685
citing authors

#	ARTICLE	IF	CITATIONS
1	A critical review of smart manufacturing & Industry 4.0 maturity models: Implications for small and medium-sized enterprises (SMEs). <i>Journal of Manufacturing Systems</i> , 2018, 49, 194-214.	13.9	630
2	Collaborative networked organisations and customer communities: value co-creation and co-innovation in the networking era. <i>Production Planning and Control</i> , 2011, 22, 447-472.	8.8	359
3	Smart manufacturing: Characteristics, technologies and enabling factors. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2019, 233, 1342-1361.	2.4	320
4	The Operator 4.0: Human Cyber-Physical Systems & Adaptive Automation Towards Human-Automation Symbiosis Work Systems. <i>IFIP Advances in Information and Communication Technology</i> , 2016, , 677-686.	0.7	263
5	Enterprise information systems state of the art: Past, present and future trends. <i>Computers in Industry</i> , 2016, 79, 3-13.	9.9	171
6	Towards The Resilient Operator 5.0: The Future of Work in Smart Resilient Manufacturing Systems. <i>Procedia CIRP</i> , 2021, 104, 1089-1094.	1.9	117
7	A smart manufacturing adoption framework for SMEs. <i>International Journal of Production Research</i> , 2020, 58, 1555-1573.	7.5	106
8	New perspectives for the future interoperable enterprise systems. <i>Computers in Industry</i> , 2016, 79, 47-63.	9.9	103
9	Product-service systems evolution in the era of Industry 4.0. <i>Service Business</i> , 2021, 15, 177-207.	4.2	72
10	Towards a Human-Centred Reference Architecture for Next Generation Balanced Automation Systems: Human-Automation Symbiosis. <i>IFIP Advances in Information and Communication Technology</i> , 2015, , 556-566.	0.7	63
11	Designing human-robot collaboration (HRC) workspaces in industrial settings: A systematic literature review. <i>Journal of Manufacturing Systems</i> , 2022, 62, 28-43.	13.9	63
12	Developing a Mixed Reality Assistance System Based on Projection Mapping Technology for Manual Operations at Assembly Workstations. <i>Procedia Computer Science</i> , 2015, 75, 327-333.	2.0	60
13	VO breeding environments & virtual organizations integral business process management framework. <i>Information Systems Frontiers</i> , 2009, 11, 569-597.	6.4	58
14	Modeling agents as joint cognitive systems in smart manufacturing systems. <i>Manufacturing Letters</i> , 2018, 17, 6-8.	2.2	57
15	Mechanisms for assessing and enhancing organisations'™ readiness for collaboration in collaborative networks. <i>International Journal of Production Research</i> , 2009, 47, 4691-4710.	7.5	54
16	Rethinking Jidoka Systems under Automation & Learning Perspectives in the Digital Lean Manufacturing World. <i>IFAC-PapersOnLine</i> , 2019, 52, 899-903.	0.9	53
17	Circular Economy in the Electronic Products Sector: Material Flow Analysis and Economic Impact of Cellphone E-Waste in Mexico. <i>Sustainability</i> , 2019, 11, 1361.	3.2	50
18	Digital Lean Cyber-Physical Production Systems: The Emergence of Digital Lean Manufacturing and the Significance of Digital Waste. <i>IFIP Advances in Information and Communication Technology</i> , 2018, , 11-20.	0.7	45

#	ARTICLE	IF	CITATIONS
19	An Industry 4.0-Enabled Low Cost Predictive Maintenance Approach for SMEs. , 2018, , .		43
20	Smart Logistics and The Logistics Operator 4.0. IFAC-PapersOnLine, 2020, 53, 10615-10620.	0.9	40
21	Towards Digital Lean Cyber-Physical Production Systems: Industry 4.0 Technologies as Enablers of Leaner Production. IFIP Advances in Information and Communication Technology, 2018, , 353-362.	0.7	39
22	Leveraging the Zachman framework implementation using action " research methodology " a case study: aligning the enterprise architecture and the business goals. Enterprise Information Systems, 2013, 7, 100-132.	4.7	38
23	Towards a Smart Manufacturing Maturity Model for SMEs (SM3E). IFIP Advances in Information and Communication Technology, 2018, , 155-163.	0.7	37
24	Serious Games and Virtual Simulator for Automotive Manufacturing Education & Training. Procedia Computer Science, 2015, 75, 267-274.	2.0	36
25	Enterprise engineering and management at the crossroads. Computers in Industry, 2016, 79, 87-102.	9.9	36
26	Towards Circular Lean Product-Service Systems. Procedia CIRP, 2017, 64, 13-18.	1.9	36
27	Digitalizing Occupational Health, Safety and Productivity for the Operator 4.0. IFIP Advances in Information and Communication Technology, 2018, , 473-481.	0.7	36
28	Virtual organisation breeding environments toolkit: reference model, management framework and instantiation methodology. Production Planning and Control, 2010, 21, 181-217.	8.8	32
29	Social Factory Architecture: Social Networking Services and Production Scenarios Through the Social Internet of Things, Services and People for the Social Operator 4.0. IFIP Advances in Information and Communication Technology, 2017, , 265-273.	0.7	32
30	Softbots Supporting the Operator 4.0 at Smart Factory Environments. IFIP Advances in Information and Communication Technology, 2018, , 456-464.	0.7	30
31	The e-HUB evolution: From a Custom Software Architecture to a Software-as-a-Service implementation. Computers in Industry, 2010, 61, 145-151.	9.9	24
32	Towards Green Sensing Virtual Enterprises: Interconnected Sensing Enterprises, Intelligent Assets and Smart Products in the Cyber-Physical Circular Economy. IFAC-PapersOnLine, 2017, 50, 11719-11724.	0.9	24
33	Towards a Smart Manufacturing Toolkit for SMEs. IFIP Advances in Information and Communication Technology, 2018, , 476-487.	0.7	23
34	Towards (pro-)active intelligent products. International Journal of Product Lifecycle Management, 2018, 11, 154.	0.3	22
35	Green Virtual Enterprise Breeding Environments: A Sustainable Industrial Development Model for a Circular Economy. International Federation for Information Processing, 2012, , 427-436.	0.4	22
36	Implementation of product lifecycle management tools using enterprise integration engineering and action-research. International Journal of Computer Integrated Manufacturing, 2010, 23, 853-875.	4.6	21

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37	A System Quality Attributes Ontology for Product-Service Systems Functional Measurement Based on a Holistic Approach. <i>Procedia CIRP</i> , 2016, 47, 78-83.	1.9	21
38	Towards a Cyber-Physical PLM Environment: The Role of Digital Product Models, Intelligent Products, Digital Twins, Product Avatars and Digital Shadows. <i>IFAC-PapersOnLine</i> , 2020, 53, 10911-10916.	0.9	21
39	A Conceptual Model for Virtual Breeding Environments Value Systems. , 2007, , 43-52.		20
40	Virtual organisation breeding environments value system and its elements. <i>Journal of Intelligent Manufacturing</i> , 2010, 21, 267-286.	7.3	19
41	Total Quality Management and Quality Circles in the Digital Lean Manufacturing World. <i>IFIP Advances in Information and Communication Technology</i> , 2019, , 3-11.	0.7	19
42	Towards The Definition Of Business Models And Governance Rules For Virtual Breeding Environments. , 2006, , 103-110.		18
43	An Agent- and Role-based Planning Approach for Flexible Automation of Advanced Production Systems. , 2018, , .		17
44	Circular Lean Product-Service Systems Design: A Literature Review, Framework Proposal and Case Studies. <i>Procedia CIRP</i> , 2019, 83, 419-424.	1.9	17
45	Enterprise integration engineering reference framework and toolbox. <i>International Journal of Production Research</i> , 2012, 50, 1489-1511.	7.5	16
46	Collaborative Networks as Modern Industrial Organisations: Real Case Studies. <i>International Journal of Computer Integrated Manufacturing</i> , 2013, 26, 1-2.	4.6	16
47	Building Blocks for Adopting Smart Manufacturing. <i>Procedia Manufacturing</i> , 2019, 34, 978-985.	1.9	16
48	New Forms of Gemba Walks and Their Digital Tools in the Digital Lean Manufacturing World. <i>IFIP Advances in Information and Communication Technology</i> , 2020, , 432-440.	0.7	16
49	Collaborative product-service systems engineering: Towards an active role of customers and stakeholders in value co-creation. , 2017, , .		15
50	Circular Economy in Mexico's Electronic and Cell Phone Industry: Recent Evidence of Consumer Behavior. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7744.	2.5	15
51	Towards Governance Rules and Bylaws for Virtual Breeding Environments. , 2007, , 93-102.		15
52	Augmented Workforce Canvas: a management tool for guiding human-centric, value-driven human-technology integration in industry. <i>Computers and Industrial Engineering</i> , 2022, 163, 107803.	6.3	15
53	Green Virtual Enterprise Breeding Environment Reference Framework. <i>International Federation for Information Processing</i> , 2011, , 545-555.	0.4	14
54	A Virtual Breeding Environment Reference Model and Its Instantiation Methodology. <i>International Federation for Information Processing</i> , 2008, , 15-24.	0.4	13

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55	Cyber-Physical Waste Identification and Elimination Strategies in the Digital Lean Manufacturing World. IFIP Advances in Information and Communication Technology, 2019, , 37-45.	0.7	13
56	Design for sustainable mass-customization: Design guidelines for sustainable mass-customized products. , 2014, , .		12
57	Reverse " Green Virtual Enterprises and Their Breeding Environments: Closed-Loop Networks. IFIP Advances in Information and Communication Technology, 2013, , 589-598.	0.7	11
58	Towards a Sustainable Development Maturity Model for Green Virtual Enterprise Breeding Environments. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4272-4279.	0.4	11
59	A comprehensive description of the Product-Service Systems™ cost estimation process: An integrative review. International Journal of Production Economics, 2020, 221, 107481.	8.9	11
60	The Impact of Digital Technologies on Services Characteristics: Towards Digital Servitization. IFIP Advances in Information and Communication Technology, 2019, , 493-501.	0.7	11
61	A Governance Reference Model for Virtual Enterprises. Lecture Notes in Computer Science, 2014, , 60-70.	1.3	11
62	Co-innovation and collaborative networks. Production Planning and Control, 2011, 22, 445-446.	8.8	10
63	Green Virtual Enterprises and their Breeding Environments: Engineering their Sustainability as Systems of Systems for the Circular Economy. IFAC-PapersOnLine, 2015, 48, 2258-2265.	0.9	10
64	Towards a Cost Engineering Method for Product-Service Systems Based on a System Cost Uncertainty Analysis. Procedia CIRP, 2016, 47, 84-89.	1.9	10
65	Vo Breeding Environments Value Systems, Business Models and Governance Rules. , 2008, , 69-90.		10
66	Collaborative Softbots: Enhancing Operational Excellence in Systems of Cyber-Physical Systems. IFIP Advances in Information and Communication Technology, 2019, , 55-68.	0.7	10
67	Strategies for Implementing Collaborative Robot Applications for the Operator 4.0. IFIP Advances in Information and Communication Technology, 2019, , 682-689.	0.7	10
68	Innovation Ecosystems: A Collaborative Networks Perspective. IFIP Advances in Information and Communication Technology, 2015, , 323-336.	0.7	10
69	Engineering Value Co-Creation in Product-Service Systems. Advances in Hospitality, Tourism and the Services Industry, 2017, , 22-36.	0.2	10
70	A New Architecture for Controlling Smart Manufacturing Systems. , 2018, , .		9
71	Transformation of Manufacturing Firms: Towards Digital Servitization. IFIP Advances in Information and Communication Technology, 2021, , 153-161.	0.7	9
72	Production Management as-a-Service: A Softbot Approach. IFIP Advances in Information and Communication Technology, 2020, , 19-30.	0.7	9

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73	Green Virtual Enterprises and Their Breeding Environments. International Federation for Information Processing, 2010, , 25-35.	0.4	9
74	Empowering the Workforce in Post-“COVID-19 Smart Manufacturing Systems. Smart and Sustainable Manufacturing Systems, 2020, 4, 20200043.	0.7	9
75	Developing a universal numerical control machine based on an enterprise multilevel framework and its IPPMD reference map and methodology. Annual Reviews in Control, 2010, 34, 145-154.	7.9	8
76	Highlights in Customer-driven Operations Management Research. Procedia CIRP, 2019, 86, 12-19.	1.9	8
77	Green Virtual Enterprise Breeding Environments Bag of Assets Management: A Contribution to the Sharing Economy. IFIP Advances in Information and Communication Technology, 2015, , 439-447.	0.7	8
78	A multidisciplinary framework and toolkit to innovate customer-centric new product development. , 2015, , .		7
79	A Cost-Engineering Method for Product-Service Systems Based on Stochastic Process Modelling: Bergamo's Bike-Sharing PSS. Procedia CIRP, 2017, 64, 417-422.	1.9	7
80	Using the Zachman Framework to Achieve Enterprise Integration Based-on Business Process Driven Modelling. Lecture Notes in Computer Science, 2008, , 283-293.	1.3	7
81	Readiness for Collaboration Assessment Approach in Collaborative Networked Organisations. , 2008, , 47-56.		6
82	Next Generation Manufacturing Systems and the Virtual Enterprise. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 630-637.	0.4	6
83	On the management of virtual enterprise's inheritance between virtual manufacturing & service enterprises: Supporting & dynamic; product-service business ecosystems. , 2012, , .		6
84	Conceptualizing Embodied Automation to Increase Transfer of Tacit knowledge in the Learning Factory. , 2018, , .		6
85	Integrating Sustainability Considerations into Product Variety and Portfolio Management. Procedia CIRP, 2020, 93, 605-609.	1.9	6
86	Strategizing for Production Innovation. IFIP Advances in Information and Communication Technology, 2017, , 3-12.	0.7	6
87	Forward - Green Virtual Enterprises and Their Breeding Environments: Sustainable Manufacturing, Logistics and Consumption. Lecture Notes in Computer Science, 2014, , 336-346.	1.3	6
88	Ergonomics and Safety in the Design of Industrial Collaborative Robotics. Studies in Systems, Decision and Control, 2022, , 465-478.	1.0	6
89	Advanced CPS Service Oriented Architecture for Smart Injection Molding and Molds 4.0. , 2018, , .		5
90	New and Renewed Manufacturing Paradigms for Sustainable Production. Sustainability, 2022, 14, 1279.	3.2	5

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91	Digital Lean Manufacturing: A Literature Review. , 2021, , .		5
92	Collaborative Engineering Environments for Virtual Organisations. International Journal of Information Technology and Management, 2009, 8, 298.	0.1	4
93	Concurrent Conceptual Evaluation of Tolerancesâ€™ Synthesis in Mechanical Design. Concurrent Engineering Research and Applications, 2011, 19, 175-186.	3.2	4
94	When Softbots Meet Digital Twins: Towards Supporting the Cognitive Operator 4.0. IFIP Advances in Information and Communication Technology, 2021, , 37-47.	0.7	4
95	Green Virtual Enterprise Breeding Environments Enabling the RESOLVE Framework. IFIP Advances in Information and Communication Technology, 2017, , 603-613.	0.7	4
96	The Virtual Enterprise from a Governance Perspective. IFIP Advances in Information and Communication Technology, 2010, , 73-82.	0.7	4
97	A Decision Support System to Operationalize Customer-Centric Sustainability. Procedia CIRP, 2021, 103, 122-127.	1.9	4
98	Agent- and Skill-Based Process Interoperability for Socio-Technical Production Systems-of-Systems. IFIP Advances in Information and Communication Technology, 2020, , 46-54.	0.7	4
99	A framework for cost estimation in product-service systems: A systems thinking approach. CIRP Journal of Manufacturing Science and Technology, 2022, 38, 748-759.	4.5	4
100	PROCESS IMPROVEMENT IN A VIRTUAL ORGANIZATION FOCUSED ON PRODUCT DEVELOPMENT USING COLLABORATIVE ENVIRONMENTS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 611-616.	0.4	3
101	Analysis & Design of a Collaboration Opportunity Characterization Tool for Virtual Organisations Creation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 12891-12898.	0.4	3
102	Leveraging collaborative innovation in SOA-based software providers networks. , 2015, , .		3
103	Strategic Planning Framework for SME Service Organisations: Competitive, Value Chain and Operational Models & Toolkit. , 2016, , .		3
104	Interoperability enablers for cyber-physical enterprise systems. Enterprise Information Systems, 2020, 14, 1061-1070.	4.7	3
105	The Sensing Enterprise: Towards the Next Generation Dynamic Virtual Organisations. Lecture Notes in Computer Science, 2014, , 209-216.	1.3	3
106	Building Manufacturing Resilience through Production Innovation. , 2021, , .		3
107	Green Virtual Enterprise Broker: Enabling Build-to-Order Supply Chains for Sustainable Customer-Driven Small Series Production. Lecture Notes in Computer Science, 2014, , 431-441.	1.3	2
108	Exploring the Path Towards Construction 4.0: Collaborative Networks and Enterprise Architecture Views. IFIP Advances in Information and Communication Technology, 2020, , 547-556.	0.7	2

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109	(University) technology parks toolkit: Knowledge transfer and innovation " The Tecnol3gico de Monterrey experience. , 2013, , .		1
110	Implementation of best manufacturing practices using logic models and system dynamics: project design and project assessment views. Information Systems and E-Business Management, 2017, 15, 535-575.	3.7	1
111	Smart Wearable and Collaborative Technologies for the Operator 4.0 in the Present and Post-COVID Digital Manufacturing Worlds. Smart and Sustainable Manufacturing Systems, 2021, 5, 148-166.	0.7	1
112	The APMS Conference & IFIP WG5.7 in the 21st Century: A Bibliometric Study. IFIP Advances in Information and Communication Technology, 2019, , 1-13.	0.7	1
113	Challenges for the Operator 3.0 Addressed Through the Enabling Technologies of the Operator 4.0. IFIP Advances in Information and Communication Technology, 2020, , 37-45.	0.7	0