

Xun Xu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

287
papers

10,917
citations

53
h-index

98
g-index

325
ext. papers

13,654
ext. citations

4.9
avg, IF

7.56
L-index

#	Paper	IF	Citations
287	From cloud computing to cloud manufacturing. <i>Robotics and Computer-Integrated Manufacturing</i> , 2012 , 28, 75-86	9.2	1218
286	Intelligent Manufacturing in the Context of Industry 4.0: A Review. <i>Engineering</i> , 2017 , 3, 616-630	9.7	1017
285	Digital Twin-driven smart manufacturing: Connotation, reference model, applications and research issues. <i>Robotics and Computer-Integrated Manufacturing</i> , 2020 , 61, 101837	9.2	358
284	Smart manufacturing systems for Industry 4.0: Conceptual framework, scenarios, and future perspectives. <i>Frontiers of Mechanical Engineering</i> , 2018 , 13, 137-150	3.3	338
283	Computer-aided process planning – A critical review of recent developments and future trends. <i>International Journal of Computer Integrated Manufacturing</i> , 2011 , 24, 1-31	4.3	243
282	An interoperable solution for Cloud manufacturing. <i>Robotics and Computer-Integrated Manufacturing</i> , 2013 , 29, 232-247	9.2	231
281	Making CNC machine tools more open, interoperable and intelligent – a review of the technologies. <i>Computers in Industry</i> , 2006 , 57, 141-152	11.6	203
280	A systematic design approach for service innovation of smart product-service systems. <i>Journal of Cleaner Production</i> , 2018 , 201, 657-667	10.3	183
279	STEP-compliant NC research: the search for intelligent CAD/CAPP/CAM/CNC integration. <i>International Journal of Production Research</i> , 2005 , 43, 3703-3743	7.8	171
278	Industry 4.0 and Cloud Manufacturing: A Comparative Analysis. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2017 , 139,	3.3	160
277	Support Structures for Additive Manufacturing: A Review. <i>Journal of Manufacturing and Materials Processing</i> , 2018 , 2, 64	2.2	154
276	Striving for a total integration of CAD, CAPP, CAM and CNC. <i>Robotics and Computer-Integrated Manufacturing</i> , 2004 , 20, 101-109	9.2	149
275	Cloud-based manufacturing equipment and big data analytics to enable on-demand manufacturing services. <i>Robotics and Computer-Integrated Manufacturing</i> , 2019 , 57, 92-102	9.2	144
274	Workload-based multi-task scheduling in cloud manufacturing. <i>Robotics and Computer-Integrated Manufacturing</i> , 2017 , 45, 3-20	9.2	140
273	Development of a Hybrid Manufacturing Cloud. <i>Journal of Manufacturing Systems</i> , 2014 , 33, 551-566	9.1	137
272	Manufacturing Service Management in Cloud Manufacturing: Overview and Future Research Directions. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2015 , 137,	3.3	136
271	Strategic advantages of interoperability for global manufacturing using CNC technology. <i>Robotics and Computer-Integrated Manufacturing</i> , 2008 , 24, 699-708	9.2	125

270	A review of web-based product data management systems. <i>Computers in Industry</i> , 2001 , 44, 251-262	11.6	119
269	Life cycle assessment of wood-fibre-reinforced polypropylene composites. <i>Journal of Materials Processing Technology</i> , 2008 , 198, 168-177	5.3	118
268	Smart manufacturing process and system automation – A critical review of the standards and envisioned scenarios. <i>Journal of Manufacturing Systems</i> , 2020 , 56, 312-325	9.1	106
267	Realization of STEP-NC enabled machining. <i>Robotics and Computer-Integrated Manufacturing</i> , 2006 , 22, 144-153	9.2	106
266	Scheduling in cloud manufacturing: state-of-the-art and research challenges. <i>International Journal of Production Research</i> , 2019 , 57, 4854-4879	7.8	103
265	Energy-efficient machining systems: a critical review. <i>International Journal of Advanced Manufacturing Technology</i> , 2014 , 72, 1389-1406	3.2	101
264	IoT-enabled smart appliances under industry 4.0: A case study. <i>Advanced Engineering Informatics</i> , 2020 , 43, 101043	7.4	99
263	Digital Twin as a Service (DTaaS) in Industry 4.0: An Architecture Reference Model. <i>Advanced Engineering Informatics</i> , 2021 , 47, 101225	7.4	97
262	Machine Tool 4.0 for the new era of manufacturing. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 92, 1893-1900	3.2	96
261	Industry 4.0 and Industry 5.0 – Inception, conception and perception. <i>Journal of Manufacturing Systems</i> , 2021 , 61, 530-535	9.1	95
260	Computer-Aided Inspection Planning – The state of the art. <i>Computers in Industry</i> , 2009 , 60, 453-466	11.6	90
259	Virtual machine tools and virtual machining – A technological review. <i>Robotics and Computer-Integrated Manufacturing</i> , 2011 , 27, 494-508	9.2	90
258	Resource virtualization: A core technology for developing cyber-physical production systems. <i>Journal of Manufacturing Systems</i> , 2018 , 47, 128-140	9.1	90
257	A Cyber-Physical Machine Tools Platform using OPC UA and MTConnect. <i>Journal of Manufacturing Systems</i> , 2019 , 51, 61-74	9.1	86
256	A semantic web-based framework for service composition in a cloud manufacturing environment. <i>Journal of Manufacturing Systems</i> , 2017 , 42, 69-81	9.1	84
255	A web-enabled PDM system in a collaborative design environment. <i>Robotics and Computer-Integrated Manufacturing</i> , 2003 , 19, 315-328	9.2	82
254	Cyber-physical Machine Tool – The Era of Machine Tool 4.0. <i>Procedia CIRP</i> , 2017 , 63, 70-75	1.8	78
253	Computer-Integrated Manufacturing, Cyber-Physical Systems and Cloud Manufacturing – Concepts and relationships. <i>Manufacturing Letters</i> , 2015 , 6, 5-9	4.5	77

252	Food supply chain management: systems, implementations, and future research. <i>Industrial Management and Data Systems</i> , 2017 , 117, 2085-2114	3.6	71
251	Recent development of knowledge-based systems, methods and tools for One-of-a-Kind Production. <i>Knowledge-Based Systems</i> , 2011 , 24, 1108-1119	7.3	69
250	A systematic development method for cyber-physical machine tools. <i>Journal of Manufacturing Systems</i> , 2018 , 48, 13-24	9.1	67
249	Optimization of process planning for reducing material waste in extrusion based additive manufacturing. <i>Robotics and Computer-Integrated Manufacturing</i> , 2019 , 59, 317-325	9.2	66
248	DIMP: an interoperable solution for software integration and product data exchange. <i>Enterprise Information Systems</i> , 2012 , 6, 291-314	3.5	66
247	Relationship matrix based automatic assembly sequence generation from a CAD model. <i>CAD Computer Aided Design</i> , 2013 , 45, 1053-1067	2.9	64
246	A novel open CNC architecture based on STEP-NC data model and IEC 61499 function blocks. <i>Robotics and Computer-Integrated Manufacturing</i> , 2009 , 25, 560-569	9.2	62
245	Personalized product configuration framework in an adaptable open architecture product platform. <i>Journal of Manufacturing Systems</i> , 2017 , 43, 422-435	9.1	61
244	Augmented Reality-assisted Intelligent Window for Cyber-Physical Machine Tools. <i>Journal of Manufacturing Systems</i> , 2017 , 44, 280-286	9.1	58
243	An adaptable CNC system based on STEP-NC and function blocks. <i>International Journal of Production Research</i> , 2007 , 45, 3809-3829	7.8	58
242	Recent developments in Dual Resource Constrained (DRC) system research. <i>European Journal of Operational Research</i> , 2011 , 215, 309-318	5.6	57
241	A simplified life cycle assessment of re-usable and single-use bulk transit packaging. <i>Packaging Technology and Science</i> , 2004 , 17, 67-83	2.3	57
240	Advanced CNC system with in-process feed-rate optimisation. <i>Robotics and Computer-Integrated Manufacturing</i> , 2013 , 29, 12-20	9.2	56
239	An IoT-enabled Real-time Machine Status Monitoring Approach for Cloud Manufacturing. <i>Procedia CIRP</i> , 2017 , 63, 709-714	1.8	56
238	Smart, connected open architecture product: an IT-driven co-creation paradigm with lifecycle personalization concerns. <i>International Journal of Production Research</i> , 2019 , 57, 2571-2584	7.8	56
237	Investigation of printable threshold overhang angle in extrusion-based additive manufacturing for reducing support waste. <i>International Journal of Computer Integrated Manufacturing</i> , 2018 , 31, 961-969	4.3	54
236	Visualisation of the Digital Twin data in manufacturing by using Augmented Reality. <i>Procedia CIRP</i> , 2019 , 81, 898-903	1.8	54
235	IoT-enabled cloud-based additive manufacturing platform to support rapid product development. <i>International Journal of Production Research</i> , 2019 , 57, 3975-3991	7.8	54

234	Analysis and prediction of printable bridge length in fused deposition modelling based on back propagation neural network. <i>Virtual and Physical Prototyping</i> , 2019 , 14, 253-266	10.1	53
233	Harakeke reinforcement of soillement building materials: Manufacturability and properties. <i>Building and Environment</i> , 2007 , 42, 3066-3079	6.5	53
232	ManuService ontology: a product data model for service-oriented business interactions in a cloud manufacturing environment. <i>Journal of Intelligent Manufacturing</i> , 2019 , 30, 317-334	6.7	53
231	STEP-NC enabled on-line inspection in support of closed-loop machining. <i>Robotics and Computer-Integrated Manufacturing</i> , 2008 , 24, 200-216	9.2	52
230	. <i>IEEE Transactions on Automation Science and Engineering</i> , 2006 , 3, 297-308	4.9	52
229	Turning green into gold—a framework for energy performance contracting (EPC) in China’s real estate industry. <i>Journal of Cleaner Production</i> , 2015 , 109, 166-173	10.3	50
228	IoT-enabled Smart Factory Visibility and Traceability Using Laser-scanners. <i>Procedia Manufacturing</i> , 2017 , 10, 1-14	1.5	50
227	A novel energy demand modelling approach for CNC machining based on function blocks. <i>Journal of Manufacturing Systems</i> , 2014 , 33, 196-208	9.1	48
226	A data-driven cyber-physical approach for personalised smart, connected product co-development in a cloud-based environment. <i>Journal of Intelligent Manufacturing</i> , 2020 , 31, 3-18	6.7	48
225	Human Capital 4.0: a workforce competence typology for Industry 4.0. <i>Journal of Manufacturing Technology Management</i> , 2020 , 31, 687-703	7.1	46
224	An Extensible Model for Multitask-Oriented Service Composition and Scheduling in Cloud Manufacturing. <i>Journal of Computing and Information Science in Engineering</i> , 2016 , 16, 041009	2.4	46
223	A weighted interval rough number based method to determine relative importance ratings of customer requirements in QFD product planning. <i>Journal of Intelligent Manufacturing</i> , 2019 , 30, 3-16	6.7	45
222	A framework for machining optimisation based on STEP-NC. <i>Journal of Intelligent Manufacturing</i> , 2012 , 23, 423-441	6.7	44
221	Selection of additive manufacturing processes. <i>Rapid Prototyping Journal</i> , 2017 , 23, 434-447	3.8	42
220	Digital twin modeling method based on biomimicry for machining aerospace components. <i>Journal of Manufacturing Systems</i> , 2021 , 58, 180-195	9.1	42
219	Run-time interpretation of STEP-NC: implementation and performance. <i>International Journal of Computer Integrated Manufacturing</i> , 2006 , 19, 495-507	4.3	41
218	Recognition of rough machining features in 2D components. <i>CAD Computer Aided Design</i> , 1998 , 30, 503-516	5.1	40
217	Optimisation of multi-part production in additive manufacturing for reducing support waste. <i>Virtual and Physical Prototyping</i> , 2019 , 14, 219-228	10.1	39

216	Design for the environment: life cycle assessment and sustainable packaging issues. <i>International Journal of Environmental Technology and Management</i> , 2005 , 5, 14	0.6	39
215	A roadmap for STEP-NC-enabled interoperable manufacturing. <i>International Journal of Advanced Manufacturing Technology</i> , 2013 , 68, 1023-1037	3.2	38
214	Energy-efficient cyber-physical production network: Architecture and technologies. <i>Computers and Industrial Engineering</i> , 2019 , 129, 56-66	6.4	38
213	Research into integrated design and manufacturing based on STEP. <i>International Journal of Advanced Manufacturing Technology</i> , 2009 , 44, 606-624	3.2	37
212	An Open CNC System Based on Component Technology. <i>IEEE Transactions on Automation Science and Engineering</i> , 2009 , 6, 302-310	4.9	37
211	Cloud manufacturing: key issues and future perspectives. <i>International Journal of Computer Integrated Manufacturing</i> , 2019 , 32, 858-874	4.3	36
210	Modelling machine tool data in support of STEP-NC based manufacturing. <i>International Journal of Computer Integrated Manufacturing</i> , 2008 , 21, 745-763	4.3	36
209	Framework of a Product Lifecycle Costing System. <i>Journal of Computing and Information Science in Engineering</i> , 2006 , 6, 69-77	2.4	36
208	Extended study of network capability for cloud based control systems. <i>Robotics and Computer-Integrated Manufacturing</i> , 2017 , 43, 89-95	9.2	32
207	A Knowledge Management System to Support Design for Additive Manufacturing Using Bayesian Networks. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2018 , 140,	3	32
206	Advanced Design and Manufacturing Based on STEP. <i>Springer Series in Advanced Manufacturing</i> , 2009 ,	0.9	31
205	Enabling cognitive manufacturing through automated on-machine measurement planning and feedback. <i>Advanced Engineering Informatics</i> , 2010 , 24, 269-284	7.4	31
204	An augmented Lagrangian coordination method for optimal allocation of cloud manufacturing services. <i>Journal of Manufacturing Systems</i> , 2018 , 48, 122-133	9.1	30
203	An interoperable energy consumption analysis system for CNC machining. <i>Journal of Cleaner Production</i> , 2017 , 140, 1828-1841	10.3	30
202	ICMS: A Cloud-Based Manufacturing System. <i>Springer Series in Advanced Manufacturing</i> , 2013 , 1-22	0.9	30
201	Integrating Advanced Computer-Aided Design, Manufacturing, and Numerical Control 2009 ,		30
200	Support Optimization for Flat Features via Path Planning in Additive Manufacturing. <i>3D Printing and Additive Manufacturing</i> , 2019 , 6, 171-179	4	30
199	The Degree of Mass Personalisation under Industry 4.0. <i>Procedia CIRP</i> , 2019 , 81, 1394-1399	1.8	29

198	Production planning for cloud-based additive manufacturing & computer vision-based approach. <i>Robotics and Computer-Integrated Manufacturing</i> , 2019 , 58, 145-157	9.2	29
197	Machining precedence of 2D interacting features in a feature-based data model. <i>Journal of Intelligent Manufacturing</i> , 2011 , 22, 145-161	6.7	27
196	A system framework for OKP product planning in a cloud-based design environment. <i>Robotics and Computer-Integrated Manufacturing</i> , 2017 , 45, 73-85	9.2	26
195	A weighted rough set based fuzzy axiomatic design approach for the selection of AM processes. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 91, 1977-1990	3.2	26
194	Toward interoperable CNC manufacturing. <i>International Journal of Computer Integrated Manufacturing</i> , 2008 , 21, 222-230	4.3	26
193	Dimensional metrology interoperability and standardization in manufacturing systems. <i>Computer Standards and Interfaces</i> , 2011 , 33, 541-555	3.5	25
192	Operator 4.0 or Maker 1.0? Exploring the implications of Industrie 4.0 for innovation, safety and quality of work in small economies and enterprises. <i>Computers and Industrial Engineering</i> , 2020 , 139, 105486	6.4	25
191	A decision support system for additive manufacturing process selection using a hybrid multiple criteria decision-making method. <i>Rapid Prototyping Journal</i> , 2018 , 24, 1544-1553	3.8	25
190	Configuration Design of the Add-on Cyber-physical System with CNC Machine Tools and its Application Perspectives. <i>Procedia CIRP</i> , 2016 , 56, 360-365	1.8	24
189	A comprehensive review on recent developments in quality function deployment. <i>International Journal of Productivity and Quality Management</i> , 2010 , 6, 457	0.3	24
188	Defining, recognizing and representing feature interactions in a feature-based data model. <i>Robotics and Computer-Integrated Manufacturing</i> , 2011 , 27, 101-114	9.2	24
187	Achieving better connections between deposited lines in additive manufacturing via machine learning. <i>Mathematical Biosciences and Engineering</i> , 2020 , 17, 3382-3394	2.1	24
186	Semantic communications between distributed cyber-physical systems towards collaborative automation for smart manufacturing. <i>Journal of Manufacturing Systems</i> , 2020 , 55, 348-359	9.1	24
185	A Survey Study on Industry 4.0 for New Zealand Manufacturing. <i>Procedia Manufacturing</i> , 2018 , 26, 49-57	1.5	24
184	A support interface method for easy part removal in directed energy deposition. <i>Manufacturing Letters</i> , 2019 , 20, 30-33	4.5	23
183	Data cleansing for energy-saving: a case of Cyber-Physical Machine Tools health monitoring system. <i>International Journal of Production Research</i> , 2018 , 56, 1000-1015	7.8	23
182	User-experience Based Product Development for Mass Personalization: A Case Study. <i>Procedia CIRP</i> , 2017 , 63, 2-7	1.8	23
181	The Framework of a Cloud-based CNC System. <i>Procedia CIRP</i> , 2017 , 63, 82-88	1.8	23

180	A STEP-compliant process planning system for sheet metal parts. <i>International Journal of Computer Integrated Manufacturing</i> , 2006 , 19, 627-638	4.3	23
179	MTConnect-based Cyber-Physical Machine Tool: a case study. <i>Procedia CIRP</i> , 2018 , 72, 492-497	1.8	23
178	Shared manufacturing in the sharing economy: Concept, definition and service operations. <i>Computers and Industrial Engineering</i> , 2020 , 146, 106602	6.4	22
177	Spectral resonance of nanoscale bowtie apertures in visible wavelength. <i>Applied Physics A: Materials Science and Processing</i> , 2007 , 89, 293-297	2.6	22
176	Outlook on human-centric manufacturing towards Industry 5.0. <i>Journal of Manufacturing Systems</i> , 2022 , 62, 612-627	9.1	22
175	Digital Twin-driven online anomaly detection for an automation system based on edge intelligence. <i>Journal of Manufacturing Systems</i> , 2021 , 59, 138-150	9.1	21
174	Data mining based multi-level aggregate service planning for cloud manufacturing. <i>Journal of Intelligent Manufacturing</i> , 2018 , 29, 1351-1361	6.7	20
173	STEP-compliant process planning and manufacturing. <i>International Journal of Computer Integrated Manufacturing</i> , 2006 , 19, 491-494	4.3	20
172	A reconfigurable platform in support of one-of-a-kind product development. <i>International Journal of Production Research</i> , 2005 , 43, 1889-1910	7.8	20
171	A Digital Twin Reference for Mass Personalization in Industry 4.0. <i>Procedia CIRP</i> , 2020 , 93, 228-233	1.8	20
170	Smart AGV System for Manufacturing Shopfloor in the Context of Industry 4.0 2018 ,		20
169	Incorporating Quality Function Deployment with modularity for the end-of-life of a product family. <i>Journal of Cleaner Production</i> , 2015 , 87, 423-430	10.3	19
168	A CNC system based on real-time Ethernet and Windows NT. <i>International Journal of Advanced Manufacturing Technology</i> , 2013 , 65, 1383-1395	3.2	19
167	Virtualise manufacturing capabilities in the cloud: requirements, architecture and implementation. <i>International Journal of Manufacturing Research</i> , 2014 , 9, 348	0.4	19
166	Dealing with feature interactions for prismatic parts in STEP-NC. <i>Journal of Intelligent Manufacturing</i> , 2009 , 20, 431-445	6.7	19
165	Numerical control machining simulation: a comprehensive survey. <i>International Journal of Computer Integrated Manufacturing</i> , 2011 , 24, 593-609	4.3	19
164	Adaptive execution of an NC program with feed rate optimization. <i>International Journal of Advanced Manufacturing Technology</i> , 2012 , 63, 1117-1130	3.2	18
163	Mass Personalisation as a Service in Industry 4.0: A Resilient Response Case Study. <i>Advanced Engineering Informatics</i> , 2021 , 50, 101438	7.4	18

162	Technology selection methods and applications in manufacturing: A review from 1990 to 2017. <i>Computers and Industrial Engineering</i> , 2019 , 138, 106123	6.4	17
161	STEP in a Nutshell. <i>Springer Series in Advanced Manufacturing</i> , 2009 , 1-22	0.9	17
160	A novel strategy for multi-part production in additive manufacturing. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 109, 1237-1248	3.2	17
159	Ontology for manufacturing resources in a cloud environment. <i>International Journal of Manufacturing Research</i> , 2014 , 9, 448	0.4	15
158	Digital Twin-driven machining process for thin-walled part manufacturing. <i>Journal of Manufacturing Systems</i> , 2021 , 59, 453-466	9.1	15
157	Development of an edge computing-based cyber-physical machine tool. <i>Robotics and Computer-Integrated Manufacturing</i> , 2021 , 67, 102042	9.2	15
156	Self-organizing manufacturing network: A paradigm towards smart manufacturing in mass personalization. <i>Journal of Manufacturing Systems</i> , 2021 , 60, 35-47	9.1	15
155	A delayed product differentiation model for cloud manufacturing. <i>Computers and Industrial Engineering</i> , 2018 , 117, 60-70	6.4	14
154	STEP-NC based high-level machining simulations integrated with CAD/CAPP/CAM. <i>International Journal of Automation and Computing</i> , 2012 , 9, 506-517	3.5	14
153	Industry 4.0 and Cloud Manufacturing: A Comparative Analysis 2016 ,		14
152	A novel knowledge graph-based optimization approach for resource allocation in discrete manufacturing workshops. <i>Robotics and Computer-Integrated Manufacturing</i> , 2021 , 71, 102160	9.2	14
151	A collaborative product data exchange environment based on STEP. <i>International Journal of Computer Integrated Manufacturing</i> , 2015 , 28, 75-86	4.3	13
150	A holistic approach to achieving energy efficiency for interoperable machining systems. <i>International Journal of Sustainable Engineering</i> , 2014 , 7, 111-129	3.1	13
149	Determination of finishing features in 2D D components. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 1997 , 211, 125-142	2.4	13
148	Price forecasting using an ACO-based support vector regression ensemble in cloud manufacturing. <i>Computers and Industrial Engineering</i> , 2018 , 125, 171-177	6.4	13
147	An automatic method for constructing machining process knowledge base from knowledge graph. <i>Robotics and Computer-Integrated Manufacturing</i> , 2022 , 73, 102222	9.2	13
146	Cloud manufacturing in China: a review. <i>International Journal of Computer Integrated Manufacturing</i> , 2020 , 33, 229-251	4.3	12
145	Towards High-Fidelity Machining Simulation. <i>Journal of Manufacturing Systems</i> , 2011 , 30, 175-186	9.1	12

144	Machining process-oriented monitoring method based on digital twin via augmented reality. <i>International Journal of Advanced Manufacturing Technology</i> , 2021 , 113, 3491-3508	3.2	12
143	Information Modeling for Interoperable Dimensional Metrology 2011 ,		11
142	An image-processing system for the measurement of the dimensions of natural fibre cross-section. <i>International Journal of Computer Applications in Technology</i> , 2009 , 34, 115	0.7	11
141	VR-based Product Personalization Process for Smart Products. <i>Procedia Manufacturing</i> , 2017 , 11, 1568-1576	5.36	10
140	STEP-compliant process planning system for compound sheet metal machining. <i>International Journal of Production Research</i> , 2008 , 46, 25-50	7.8	10
139	Using behavioral modeling technology to capture designer's intent. <i>Computers in Human Behavior</i> , 2005 , 21, 395-405	7.7	10
138	Function block-based closed-loop adaptive machining for assembly interfaces of large-scale aircraft components. <i>Robotics and Computer-Integrated Manufacturing</i> , 2020 , 66, 101994	9.2	10
137	Manufacturing service reliability assessment in cloud manufacturing. <i>Procedia CIRP</i> , 2018 , 72, 940-946	1.8	10
136	From Open CNC Systems to Cyber-Physical Machine Tools: A Case Study. <i>Procedia CIRP</i> , 2018 , 72, 1270-1276	2.36	10
135	Cloud-based approach for smart product personalization. <i>Procedia CIRP</i> , 2018 , 72, 922-927	1.8	10
134	Multi-scale evolution mechanism and knowledge construction of a digital twin mimic model. <i>Robotics and Computer-Integrated Manufacturing</i> , 2021 , 71, 102123	9.2	10
133	Service-oriented industrial internet of things gateway for cloud manufacturing. <i>Robotics and Computer-Integrated Manufacturing</i> , 2022 , 73, 102217	9.2	10
132	Assembly validation in virtual reality: a demonstrative case. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 105, 3579-3592	3.2	9
131	Digitalisation and servitisation of machine tools in the era of Industry 4.0: a review. <i>International Journal of Production Research</i> , 1-33	7.8	9
130	Effect of Extrusion Temperature on Printable Threshold Overhang in Additive Manufacturing. <i>Procedia CIRP</i> , 2019 , 81, 1376-1381	1.8	8
129	A hybrid approach to energy-efficient machining for milled components via STEP-NC. <i>International Journal of Computer Integrated Manufacturing</i> , 2018 , 31, 442-456	4.3	8
128	A novel CNC system for turning operations based on a high-level data model. <i>International Journal of Advanced Manufacturing Technology</i> , 2009 , 43, 323-336	3.2	8
127	STEPNCMillUoA: a CNC system based on STEP-NC and Function Block architecture. <i>International Journal of Mechatronics and Manufacturing Systems</i> , 2009 , 2, 3	0.8	8

126	Development of a G-Code Free, STEP-Compliant CNC Lathe 2004 , 75		8
125	Experimental Investigation of the Surface Roughness of Finish-Machined High-Volume-Fraction SiCp/Al Composites. <i>Arabian Journal for Science and Engineering</i> , 2020 , 45, 5399-5406	2.5	7
124	A Universal Hybrid Energy Consumption Model for CNC Machining Systems 2013 , 251-256		7
123	Service-oriented, cross-platform and high-level machining simulation. <i>International Journal of Computer Integrated Manufacturing</i> , 2012 , 25, 280-295	4.3	7
122	Object Boundary Encoding ▯ a new vectorisation algorithm for engineering drawings. <i>Computers in Industry</i> , 2001 , 46, 65-74	11.6	7
121	Achieving cognitive mass personalization via the self-X cognitive manufacturing network: An industrial-knowledge-graph- and graph-embedding-enabled pathway. <i>Engineering</i> , 2021 ,	9.7	7
120	Intelligent feature recognition for STEP-NC-compliant manufacturing based on artificial bee colony algorithm and back propagation neural network. <i>Journal of Manufacturing Systems</i> , 2021 ,	9.1	7
119	2018 ,		7
118	A new high-performance open CNC system and its energy-aware scheduling algorithm. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 93, 1513-1525	3.2	6
117	Model-based manufacturing based on STEP AP242 2016 ,		6
116	Industrial Internet-enabled Resilient Manufacturing Strategy in the Wake of COVID-19 Pandemic: A Conceptual Framework and Implementations in China. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2021 , 34,	2.5	6
115	Humans Are Not Machines ▯ Anthropocentric Human ▯ Machine Symbiosis for Ultra-Flexible Smart Manufacturing. <i>Engineering</i> , 2021 , 7, 734-737	9.7	6
114	A hybrid 3D feature recognition method based on rule and graph. <i>International Journal of Computer Integrated Manufacturing</i> , 2021 , 34, 257-281	4.3	6
113	Enterprises in Cloud Manufacturing: A Preliminary Exploration 2017 ,		5
112	Process and Production Planning in a Cloud Manufacturing Environment 2015 ,		5
111	Cloud Manufacturing in Support of Sustainability 2014 ,		5
110	The State of the Art in Energy Consumption Model ▯ The Key to Sustainable Machining. <i>Applied Mechanics and Materials</i> , 2012 , 232, 592-599	0.3	5
109	Five-axis machining: technologies and challenges. <i>International Journal of Manufacturing Research</i> , 2010 , 5, 327	0.4	5

108	Variable structure control of high-speed parallel manipulator considering the mechatronics coupling model. <i>International Journal of Advanced Manufacturing Technology</i> , 2007 , 34, 1037-1051	3.2	5
107	Information Sharing in Digital Manufacturing Based on STEP and XML 2009 , 293-316		5
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