

Jan C Aurich

List of Publications by Year in Descending Order

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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.

337
papers

4,548
citations

31
h-index

58
g-index

348
ext. papers

5,324
ext. citations

2.3
avg, IF

6.06
L-index

#	Paper	IF	Citations
337	Analysis of the grinding wheel wear and machining result during cutting edge preparation with elastic bonded grinding wheels. <i>Journal of Manufacturing Processes</i> , 2022 , 75, 181-202	5	2
336	An investigation of the influence of the coating on the tool lifetime and surface quality for ultra-small micro end mills with different diameters. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2022 , 37, 92-102	3.4	1
335	Analysis of Material Properties of Additively Manufactured Workpieces Using High-Speed Laser Directed Energy Deposition. <i>Lecture Notes in Production Engineering</i> , 2022 , 357-365	0	0
334	Energy performance evaluation of selective laser melting. <i>Procedia CIRP</i> , 2022 , 105, 559-564	1.8	0
333	Quantum Annealing based factory layout planning. <i>Manufacturing Letters</i> , 2022 , 32, 59-62	4.5	0
332	Scalability investigation of Double Deep Q Learning for factory layout planning. <i>Procedia CIRP</i> , 2022 , 107, 161-166	1.8	0
331	Development of a 5G-enabled Digital Twin of a Machine Tool. <i>Procedia CIRP</i> , 2022 , 107, 173-178	1.8	0
330	Numerical analysis of process-tool-interactions in micro milling. <i>Procedia CIRP</i> , 2022 , 108, 299-304	1.8	0
329	Depth-resolved characterization of cryogenic hard turned surface layer of AISI 52100 by X-ray diffraction and scanning electron microscopy investigations. <i>Procedia CIRP</i> , 2022 , 108, 66-71	1.8	1
328	Investigation of the surface integrity when cryogenic milling of Ti-6Al-4V using a sub-zero metalworking fluid. <i>Procedia CIRP</i> , 2022 , 108, 25-30	1.8	0
327	Predictive modelling of cryogenic hard turning of AISI 52100 based on response surface methodology for the use in soft sensors. <i>Procedia CIRP</i> , 2022 , 108, 270-275	1.8	1
326	Support Structure Impact in Laser-Based Powder Bed Fusion of AlSi10Mg. <i>Procedia CIRP</i> , 2022 , 108, 88-93	1.8	0
325	Cutting edge preparation with elastic bonded diamond grinding wheels: Influence of the interaction of metalworking fluid and grinding wheel on the grinding wheel properties and preparation result. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2022 , 38, 350-371	3.4	1
324	Simulation based compensation techniques to minimize distortion of thin-walled monolithic aluminum parts due to residual stresses. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2022 , 38, 427-441	3.4	1
323	Influence of Nozzle Position during Cryogenic Milling of Ti-6Al-4V. <i>Lecture Notes in Production Engineering</i> , 2021 , 284-293	0	0
322	Evaluating the Cumulative Energy Demand of Additive Manufacturing Using Direct Energy Deposition. <i>Lecture Notes in Production Engineering</i> , 2021 , 357-367	0	0
321	Digitalisierung fñ Mensch und Organisation im Aftersales. <i>Ifaa-Edition</i> , 2021 , 229-264	0.8	0

320	Object detection in factory based on deep learning approach. <i>Procedia CIRP</i> , 2021 , 104, 1029-1034	1.8	0
319	5G as an enabler for cloud-based machine tool control. <i>Procedia CIRP</i> , 2021 , 104, 235-240	1.8	
318	Exploration of the potential of polymer 4D printing: Experiments on the printing quality and the impact of temperature and geometry on the shape-changing effect. <i>Procedia CIRP</i> , 2021 , 103, 103-108	1.8	1
317	Development and implementation of a system for the automated removal of parts produced by Fused Deposition Modeling. <i>Procedia CIRP</i> , 2021 , 103, 109-114	1.8	2
316	Process monitoring of economic and environmental performance of a material extrusion printer using an augmented reality-based digital twin. <i>Additive Manufacturing</i> , 2021 , 48, 102388	6.1	1
315	Modeling and software implementation of manufacturing costs in additive manufacturing. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2021 , 33, 380-388	3.4	1
314	Impact of the thermomechanical load on subsurface phase transformations during cryogenic turning of metastable austenitic steels. <i>Journal of Intelligent Manufacturing</i> , 2021 , 32, 877-894	6.7	6
313	Performance verification of areal surface texture measuring instruments with the Sk-parameters. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021 , 173, 108550	4.6	3
312	Improving the tribological properties of radial shaft seal countersurfaces using experimental micro peening and classical shot peening processes. <i>Tribology International</i> , 2021 , 155, 106764	4.9	5
311	Micro milling of additively manufactured AISI 316L: impact of the layerwise microstructure on the process results. <i>International Journal of Advanced Manufacturing Technology</i> , 2021 , 112, 361-373	3.2	6
310	Analysis of the machinability when milling AlSi10Mg additively manufactured via laser-based powder bed fusion. <i>International Journal of Advanced Manufacturing Technology</i> , 2021 , 112, 989-1005	3.2	10
309	Process Chain Analysis of Directed Energy Deposition: Energy flows and their influencing factors. <i>Procedia CIRP</i> , 2021 , 98, 607-612	1.8	1
308	Sub-zero metalworking fluids for high performance cutting of difficult to cut materials. <i>Procedia CIRP</i> , 2021 , 101, 342-345	1.8	0
307	Edge-based Digital Twin to trace and ensure sustainability in cross-company production networks. <i>Procedia CIRP</i> , 2021 , 98, 276-281	1.8	3
306	Kinematic simulation to investigate the influence of the cutting edge topography when ball end micro milling. <i>Procedia CIRP</i> , 2021 , 102, 109-114	1.8	
305	A case study on the part optimization using eco-design for additive manufacturing based on energy performance assessment. <i>Procedia CIRP</i> , 2021 , 96, 91-96	1.8	2
304	Unification of lean production and Industry 4.0. <i>Procedia CIRP</i> , 2021 , 99, 15-20	1.8	3
303	Engineering changes in manufacturing systems supported by AR/VR collaboration. <i>Procedia CIRP</i> , 2021 , 96, 307-312	1.8	0

302	Maturity model for determining digitalization levels within different product lifecycle phases. <i>Production Engineering</i> , 2021 , 15, 431-450	1.9	5
301	Analysis of dimensional accuracy for micro-milled areal material measures with kinematic simulation. <i>International Journal of Advanced Manufacturing Technology</i> , 2021 , 116, 3087-3102	3.2	
300	Oberflächenmorphologie gefräster Aluminiumwerkstücke. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2021 , 116, 452-455	0.5	
299	An implementation of a reinforcement learning based algorithm for factory layout planning. <i>Manufacturing Letters</i> , 2021 , 30, 1-4	4.5	7
298	The influence of the crystallographic orientation when micro machining commercially pure titanium: A size effect. <i>Precision Engineering</i> , 2021 , 72, 158-171	2.9	4
297	Tool lifetime when drilling Inconel 718 in dependence of the cooling channel design Influence of the clearance angle, the channel diameter, number, and shape. <i>Procedia CIRP</i> , 2021 , 101, 278-281	1.8	0
296	Modeling and implementation of a digital twin of material flows based on physics simulation. <i>Journal of Manufacturing Systems</i> , 2021 , 58, 231-245	9.1	26
295	Modeling of process-machine-interactions in micro end milling. <i>Procedia CIRP</i> , 2021 , 102, 512-517	1.8	1
294	Causal and temporal relationships within the combination of Lean Production Systems and Industry 4.0. <i>Procedia CIRP</i> , 2021 , 96, 236-241	1.8	6
293	Pendulum and creep feed grinding of additively manufactured AISI 316L. <i>Procedia CIRP</i> , 2021 , 101, 166-169		1
292	Gestaltung additiv-subtraktiver Prozessketten. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2021 , 116, 899-902	0.5	
291	A study on impact factors of the energy consumption of the fused deposition modeling process using two-level full factorial experiments. <i>Procedia CIRP</i> , 2020 , 93, 79-84	1.8	3
290	A Use Case to Implement Machine Learning for Life Time Prediction of Manufacturing Tools. <i>Procedia CIRP</i> , 2020 , 93, 1484-1489	1.8	3
289	Submerged micro grinding: a metalworking fluid application study. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 107, 3807-3815	3.2	0
288	Influence of different cooling strategies during hard turning of AISI 52100 - part I: thermo-mechanical load, tool wear, surface topography and manufacturing accuracy. <i>Procedia CIRP</i> , 2020 , 87, 77-82	1.8	5
287	Influence of different cooling strategies during hard turning of AISI 52100 [part II: characterization of the surface and near surface microstructure morphology. <i>Procedia CIRP</i> , 2020 , 87, 119-124	1.8	5
286	Selective laser melting (SLM) of AISI 316L Impact of laser power, layer thickness, and hatch spacing on roughness, density, and microhardness at constant input energy density. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 108, 1551-1562	3.2	31
285	Micro milling of areal material measures Study on surface generation for different up and down milling strategies. <i>Procedia CIRP</i> , 2020 , 87, 13-18	1.8	0

284	Adsorption and reaction layers when turning AISI 304 using various cooling strategies. <i>Procedia CIRP</i> , 2020 , 87, 125-130	1.8	1
283	Characterization of the subsurface properties of metastable austenitic stainless steel AISI 347 manufactured in a two-step turning process. <i>Procedia CIRP</i> , 2020 , 87, 35-40	1.8	3
282	An eco-design for additive manufacturing framework based on energy performance assessment. <i>Additive Manufacturing</i> , 2020 , 33, 101120	6.1	12
281	Development and validation of an energy simulation for a desktop additive manufacturing system. <i>Additive Manufacturing</i> , 2020 , 32, 101021	6.1	2
280	Polishing performance of eco-friendly porcelain stoneware tiles reusing bricks and roof tiles wastes. <i>Journal of Cleaner Production</i> , 2020 , 256, 120362	10.3	4
279	A method for energy modeling and simulation implementation of machine tools of selective laser melting. <i>Journal of Cleaner Production</i> , 2020 , 263, 121282	10.3	7
278	In-process and ex-situ measurement techniques for the characterization of surface conditions during cryogenic hard turning of AISI 52100. <i>TM Technisches Messen</i> , 2020 , 87, 694-703	0.7	1
277	Realisierung verffgbarkeitsorientierter Geschftsmodelle in der Investitionsgberindustrie 2020 , 413-453		
276	Deep Learning zur Prozessberwachung in der additiven Fertigung. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2020 , 115, 810-813	0.5	
275	Agile Planung und Entwicklung von Produkt-Service Systemen. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2020 , 115, 381-386	0.5	
274	Rahmenwerk zur Einordnung Digitaler Zwillinge in Produktionssystemen. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2020 , 115, 429-433	0.5	
273	Surface layer hardening of metastable austenitic steel [Comparison of shot peening and cryogenic turning. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 16410-16422	5.5	3
272	Analytical and experimental investigations on the mechanisms of surface generation in micro grinding. <i>International Journal of Machine Tools and Manufacture</i> , 2020 , 149, 103489	9.4	13
271	Correlation between different cutting conditions, surface roughness and dimensional accuracy when ball end micro milling material measures with freeform surfaces. <i>Machining Science and Technology</i> , 2020 , 24, 446-464	2	11
270	Ball end micro milling of areal material measures: influence of the tilt angle on the resulting surface topography. <i>Production Engineering</i> , 2020 , 14, 239-252	1.9	6
269	Influence of the laser parameters on the cutting edge preparation and the performance of cemented carbide indexable inserts. <i>Journal of Manufacturing Processes</i> , 2020 , 58, 845-856	5	8
268	Predicting the martensite content of metastable austenitic steels after cryogenic turning using machine learning. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 115, 749	3.2	2
267	Formulation of sub-zero metalworking fluids for cutting processes: Influence of additives. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2020 , 31, 25-33	3.4	1

266	Quality protection of technical products □Unique identification with a hidden fingerprint in smart materials. <i>Materials Letters: X</i> , 2020 , 8, 100056	0.5	
265	Modeling and assessing the effects of digital technologies on KPIs in manufacturing systems. <i>Procedia CIRP</i> , 2020 , 93, 682-687	1.8	2
264	Estimation of process forces when turning with varying chamfer angles at different feed rates. <i>Procedia CIRP</i> , 2020 , 88, 300-305	1.8	3
263	Fusion of physical principles and data-driven based models: an industry 4.0 perspective for improving the polishing process of stoneware tiles. <i>Production Engineering</i> , 2020 , 14, 639-654	1.9	0
262	Impact-visualization to evaluate resource efficiency of technical Product-Service Systems. <i>Procedia CIRP</i> , 2019 , 79, 215-220	1.8	
261	Quality protection based on elemental composition □Influencing factors and integration into life-cycle. <i>Procedia CIRP</i> , 2019 , 79, 263-267	1.8	1
260	Categorizing and selecting digitization technologies for their implementation within different product lifecycle phases. <i>Procedia CIRP</i> , 2019 , 79, 274-279	1.8	6
259	Maturity model for product development information. <i>Procedia CIRP</i> , 2019 , 79, 557-562	1.8	4
258	Development of a simulation tool for predicting energy consumption of selective laser melting by using MATLAB/Simulink. <i>Procedia CIRP</i> , 2019 , 81, 28-33	1.8	2
257	Identification of interactions between digital technologies in manufacturing systems. <i>Procedia CIRP</i> , 2019 , 81, 115-120	1.8	3
256	Validation of a physics engine for the simulation of material flows in cyber-physical production systems. <i>Procedia CIRP</i> , 2019 , 81, 494-499	1.8	3
255	The influence of structured flank faces on cooling performance when drilling. <i>Procedia CIRP</i> , 2019 , 82, 415-420	1.8	0
254	Approach for the observation of surface conditions in-process by soft sensors during cryogenic hard turning. <i>Procedia CIRP</i> , 2019 , 81, 1260-1265	1.8	7
253	Simulation-based design of an ultrasonic-assisted air bearing spindle for micro machining. <i>Procedia CIRP</i> , 2019 , 82, 160-165	1.8	3
252	Physical modeling of material flows in cyber-physical production systems. <i>Procedia Manufacturing</i> , 2019 , 28, 10-17	1.5	7
251	Implications of Cyber-Physical Production Systems on Integrated Process Planning and Scheduling. <i>Procedia Manufacturing</i> , 2019 , 28, 167-173	1.5	25
250	Generation of deformation-induced martensite when cryogenic turning various batches of the metastable austenitic steel AISI 347. <i>Production Engineering</i> , 2019 , 13, 343-350	1.9	13
249	Abrasive processes for micro parts and structures. <i>CIRP Annals - Manufacturing Technology</i> , 2019 , 68, 653-676	4.9	12

248	Conceptual manufacturing system design based on early product information. <i>CIRP Annals - Manufacturing Technology</i> , 2019 , 68, 121-124	4.9	3
247	Characterization of micro grinding tools using optical profilometry. <i>Optics and Lasers in Engineering</i> , 2019 , 121, 150-155	4.6	7
246	Experimental investigations and kinematic simulation of single grit scratched surfaces considering pile-up behaviour: grinding perspective. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 103, 471-485	3.2	7
245	Sustainability in Ultra Precision and Micro Machining: A Review. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2019 , 6, 601-610	3.8	24
244	Tool-life criteria and wear behavior of single-edge ultra-small micro end mills. <i>Precision Engineering</i> , 2019 , 55, 48-58	2.9	4
243	Combination of cold drawing and cryogenic turning for modifying surface morphology of metastable austenitic AISI 347 steel. <i>Journal of Iron and Steel Research International</i> , 2019 , 26, 1188-1198	1.2	10
242	How to integrate additive manufacturing technologies into manufacturing systems successfully: A perspective from the commercial vehicle industry. <i>Journal of Manufacturing Systems</i> , 2019 , 53, 195-211	9.1	37
241	Manufacturing and preparation of micro cutting tools: influence on chip formation and surface topography when micro cutting titanium. <i>Production Engineering</i> , 2019 , 13, 731-741	1.9	
240	Anwendungsfall John Deere 2019 , 169-184		1
239	Entwicklung von Geschäftsmodellen auf Basis der additiven Fertigung. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2019 , 114, 863-868	0.5	
238	Turning of AISI 4140 (42CrMo4): A Novel Sub-zero Cooling Approach 2019 , 313-323		3
237	Grundlagen zu Produkt-Service Systemen 2019 , 5-15		5
236	Micro milling of areal material measures: Influence of the manufacturing parameters on the surface quality 2019 , 259-268		2
235	Micro hardness determination on a rough surface by using combined indentation and topography measurements. <i>Surface Topography: Metrology and Properties</i> , 2019 , 7, 045021	1.5	4
234	Influence of the Chemical Composition of the Used Powder on the Fatigue Behavior of Additively Manufactured Materials. <i>Metals</i> , 2019 , 9, 1285	2.3	4
233	Energy simulation of the fused deposition modeling process using machine learning approach. <i>Procedia CIRP</i> , 2019 , 86, 216-221	1.8	4
232	Micro grinding 16MnCr5 hardened steel using micro pencil grinding tools with diameters ~50 μ m. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2019 , 27, 1-10	3.4	0
231	Application of model order reduction to a finite element model of cryogenic turning. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2019 , 19, e201900239	0.2	

230	Model-based design of areal material measures with component surfaces. <i>Surface Topography: Metrology and Properties</i> , 2019 , 7, 044003	1.5	2
229	Optimization of Micropencil Grinding Tools Via Electrical Discharge Machining. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2019 , 141,	3.3	8
228	Technical Product-Service Systems: Analysis and reduction of the Cumulative Energy Demand. <i>Journal of Cleaner Production</i> , 2019 , 206, 727-740	10.3	8
227	Effects of Lubrication on Friction and Heat Transfer in Machining Processes on the Nanoscale: A Molecular Dynamics Approach. <i>Procedia CIRP</i> , 2018 , 67, 296-301	1.8	6
226	Estimation of the minimum material removal thickness during the polishing process of ceramic tiles by laser triangulation. <i>Ceramics International</i> , 2018 , 44, 4646-4652	5.1	3
225	Micromachining of PMMA manufacturing of burr-free structures with single-edge ultra-small micro end mills. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 96, 3665-3677	3.2	13
224	Functional investigation of zero lead radial shaft seal counter-surfaces turned with a special method. <i>Tribology International</i> , 2018 , 118, 442-450	4.9	7
223	A Finite Element Approach to Calculate Temperatures Arising During Cryogenic Turning of Metastable Austenitic Steel AISI 347. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2018 , 140,	3.3	11
222	Coating of Ultra-Small Micro End Mills: Analysis of Performance and Suitability of Eight Different Hard-Coatings. <i>Journal of Manufacturing and Materials Processing</i> , 2018 , 2, 22	2.2	3
221	An Investigation of the Microstructure and Fatigue Behavior of Additively Manufactured AISI 316L Stainless Steel with Regard to the Influence of Heat Treatment. <i>Metals</i> , 2018 , 8, 220	2.3	49
220	Sub-zero cooling: A novel strategy for high performance cutting. <i>CIRP Annals - Manufacturing Technology</i> , 2018 , 67, 95-98	4.9	12
219	Kollaborative Produktionssystemplanung unter Verwendung eines modellbasierten, PLM-gestützten Entwicklungsprozesses. <i>Automatisierungstechnik</i> , 2018 , 66, 406-417	0.8	2
218	Kurzpulslaserbearbeitung unterschiedlicher Hartmetallsorten. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2018 , 113, 453-457	0.5	2
217	Digitale Transformation eines Produktionssystems. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2018 , 113, 514-517	0.5	2
216	Klkanalaustrittsbedingungen bei Bohrern. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2018 , 113, 471-474	0.5	2
215	Konzept zur Oberflächenkonditionierung beim kryogenen Hartdrehen. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2018 , 113, 462-465	0.5	2
214	Optimierung von Strömungs-simulationen durch den Einsatz additiver Fertigungsverfahren. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2018 , 113, 751-754	0.5	1
213	Kumulierter Energieaufwand technischer Produkt-Service Systeme. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2018 , 113, 128-132	0.5	

212	Bewertung der Oberflächen-morphologie kryogen gedrehter Werkstücke. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2018 , 113, 592-595	0.5	
211	Energieeffiziente Produktion mittels Additiver Fertigung. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2018 , 113, 746-750	0.5	
210	Improvement of the Machining Accuracy in Dry Turning of Aluminum Metal Matrix Composites via Experiments and Finite Element Simulations. <i>Lecture Notes in Production Engineering</i> , 2018 , 35-62	0	2
209	Improving collaboration efficiency via diverse networked mobile devices. <i>Journal on Multimodal User Interfaces</i> , 2018 , 12, 91-108	1.7	2
208	The Influence of Cooling Nozzle Positions on the Transient Temperature Field during Cryogenic Turning of Metastable Austenitic Steel AISI 347. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2018 , 18, e201800447	0.2	2
207	Combining physical simulation and discrete-event material flow simulation. <i>Procedia CIRP</i> , 2018 , 72, 420-425	1.8	1
206	Micro-milling of areal material measures ¶influences on the resulting surface topography. <i>Procedia CIRP</i> , 2018 , 71, 122-127	1.8	8
205	Improving the surface morphology of metastable austenitic steel AISI 347 in a two-step turning process. <i>Procedia CIRP</i> , 2018 , 71, 160-165	1.8	5
204	Size limitations and wear behavior of TiB2 coated micro end mills (¶Procedia CIRP, 2018 , 71, 187-191	1.8	5
203	Modification of surface morphology during cryogenic turning of metastable austenitic steel AISI 347 at different parameter combinations with constant CO2 consumption per cut. <i>Procedia CIRP</i> , 2018 , 77, 207-210	1.8	5
202	An energy model of machine tools for selective laser melting. <i>Procedia CIRP</i> , 2018 , 78, 67-72	1.8	8
201	Influence of different metal working fluids when micro machining cp-titanium with 50 ¶m diameter micro end mills. <i>Procedia CIRP</i> , 2018 , 71, 198-202	1.8	4
200	Realizing availability-oriented business models in the capital goods industry. <i>Procedia CIRP</i> , 2018 , 73, 297-303	1.8	4
199	Visualization of Geometrical Deviations in Micro Grinding by Kinematic Simulations 2018 ,		1
198	adhered on surfaces: Resistance of a seawater bacterium against shear forces under the influence of roughness, surface energy, and zeta potential of the surfaces. <i>Biointerphases</i> , 2018 , 13, 051003	1.8	1
197	Deformation induced hardening when cryogenic turning,. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2018 , 23, 6-19	3.4	14
196	Development of Micro Pencil Grinding Tools Via an Electroless Plating Process. <i>Journal of Micro and Nano-Manufacturing</i> , 2017 , 5,	1.3	11
195	User-Guided Visual Analysis of Cyber-Physical Production Systems. <i>Journal of Computing and Information Science in Engineering</i> , 2017 , 17,	2.4	14

194	Analysing the Cumulative Energy Demand of Product-service Systems for wind Turbines. <i>Procedia CIRP</i> , 2017 , 59, 214-219	1.8	11
193	Optimizing Energy Consumption in a Decentralized Manufacturing System. <i>Journal of Computing and Information Science in Engineering</i> , 2017 , 17,	2.4	9
192	Surface quality in micro milling: Influences of spindle and cutting parameters. <i>CIRP Annals - Manufacturing Technology</i> , 2017 , 66, 101-104	4.9	47
191	Machining of CFRP via Short Amplitude Torsion Pendulum Drilling. <i>Procedia CIRP</i> , 2017 , 66, 169-174	1.8	2
190	Model-based Design Process for the Early Phases of Manufacturing System Planning using SysML. <i>Procedia CIRP</i> , 2017 , 60, 163-168	1.8	17
189	Analysis of Control Architectures in the Context of Industry 4.0. <i>Procedia CIRP</i> , 2017 , 62, 165-169	1.8	67
188	Effect of HM substrates Cutting edge roundness manufactured by laser machining and micro-blasting on the coated tools Cutting performance. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2017 , 18, 188-197	3.4	20
187	Manufacturing of structured surfaces via grinding. <i>Journal of Materials Processing Technology</i> , 2017 , 243, 170-183	5.3	14
186	A Finite Element Analysis of Air Bearings Applied in Compact Air Bearing Spindles. <i>Procedia CIRP</i> , 2017 , 58, 607-612	1.8	3
185	Quality Protection of Capital Goods Based on Inherent Component Characteristics. <i>Procedia CIRP</i> , 2017 , 63, 598-603	1.8	2
184	A Novel Concept for the Development of Availability-Oriented Business Models. <i>Procedia CIRP</i> , 2017 , 64, 340-344	1.8	17
183	An Analytical Method for Prediction of Material Deformation Behavior in Grinding Using Single Grit Analogy. <i>Procedia CIRP</i> , 2017 , 58, 263-268	1.8	17
182	Analyzing the influence of microstructured surfaces on the lactic acid production of in a flow-through cell system. <i>Engineering in Life Sciences</i> , 2017 , 17, 865-873	3.4	10
181	Adhesion forces of the sea-water bacterium <i>Paracoccus seriniphilus</i> on titanium: Influence of microstructures and environmental conditions. <i>Biointerphases</i> , 2017 , 12, 05G606	1.8	4
180	Influence of surface morphology on fatigue behavior of metastable austenitic stainless steel AISI 347 at ambient temperature and 300°C. <i>Procedia Structural Integrity</i> , 2017 , 5, 989-996	1	9
179	Numerical homogenization of elastic and thermal material properties for metal matrix composites (MMC). <i>Continuum Mechanics and Thermodynamics</i> , 2017 , 29, 51-75	3.5	9
178	A thermo-viscoplastic constitutive law for isotropic hardening of metals. <i>Archive of Applied Mechanics</i> , 2017 , 87, 129-157	2.2	6
177	Recent Developments in Desktop-Sized Machine Tools. <i>Solid State Phenomena</i> , 2017 , 261, 425-431	0.4	2

176	Estimation of Heat Transfer Properties for the FE Simulation of Cryogenic Turning. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2017 , 17, 401-402	0.2	1
175	Robust implementation of multi-slip crystal plasticity for micro machining simulations based on Fischer-Burmeister complementary functions. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2017 , 17, 407-408	0.2	1
174	Experimental Analysis for the Use of Sodium Dodecyl Sulfate as a Soluble Metal Cutting Fluid for Micromachining with Electroless-Plated Micropencil Grinding Tools. <i>Inventions</i> , 2017 , 2, 29	2.9	8
173	Application of Ultra-Small Micro Grinding and Micro Milling Tools: Possibilities and Limitations. <i>Micromachines</i> , 2017 , 8,	3.3	16
172	Unikatsidentifizierung mittels Chargen-Fingerprint. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2017 , 112, 68-72	0.5	2
171	Schleifende Nachbearbeitung additiv gefertigter austenitischer Edelstähle. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2017 , 112, 473-476	0.5	4
170	Zerspanung von additiv hergestelltem Edelstahl. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2017 , 112, 465-468	0.5	1
169	Untersuchung des Verschleißverhaltens von TiB ₂ -beschichteten Mikrofräswerkzeugen. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2017 , 112, 598-601	0.5	3
168	Unikatsidentifizierung mittels Chargen-Fingerprint. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2017 , 112, 769-772	0.5	1
167	Arbeitsplanung für cyber-physische Produktionssysteme. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2017 , 112, 899-901	0.5	1
166	Compact Air Bearing Spindles for Desktop Sized Machine Tools. <i>Lecture Notes in Production Engineering</i> , 2017 , 21-34	0	3
165	Modellbasierter Referenzentwicklungsprozess für CTPS in frühen Entwicklungsphasen 2017 , 103-112		1
164	Bauteilidentifikation in der additiven Fertigung. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2017 , 112, 37-40	0.5	1
163	Cutting edge preparation with elastic bonded superabrasive grinding wheels. <i>CIRP Annals - Manufacturing Technology</i> , 2016 , 65, 329-332	4.9	14
162	Compensation of Thermo-mechanically Induced Workpiece and Tool Deformations During Dry Turning. <i>Procedia CIRP</i> , 2016 , 46, 31-34	1.8	3
161	Realising Digital Connectivity by Using Interdependencies within a Production Process. <i>Procedia CIRP</i> , 2016 , 52, 80-83	1.8	2
160	A model-based approach for the calibration and traceability of the angle resolved scattering light sensor. <i>Surface Topography: Metrology and Properties</i> , 2016 , 4, 024010	1.5	8
159	Simulation of micro-cutting considering finite deformation crystal plasticity. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2016 , 16, 305-306	0.2	

158	Influence of Cutting Edge Geometry on Deformation Induced Hardening when Cryogenic Turning of Metastable Austenitic Stainless Steel AISI 347. <i>Procedia CIRP</i> , 2016 , 45, 59-62	1.8	9
157	Experimental evaluation of on-line discrete tile rotations in the polishing process of ceramic tiles. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2016 , 14, 1-9	3.4	2
156	Effect of the cutting condition and the reinforcement phase on the thermal load of the workpiece when dry turning aluminum metal matrix composites. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 82, 1317-1334	3.2	18
155	Support of Engineering Changes in Manufacturing Systems by Production Planning and Control Methods. <i>Procedia CIRP</i> , 2016 , 41, 165-170	1.8	9
154	Oberflächenerzeugungs-Morphologie-Eigenschafts-Beziehungen. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2016 , 111, 213-216	0.5	4
153	Kryogener Kühlschmierstoff auf der Basis von Ethylenglykol. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2016 , 111, 444-448	0.5	4
152	PSS 4.0 [Einflüsse von Industrie 4.0 auf Produkt-Service Systeme. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2016 , 111, 565-568	0.5	11
151	SysML-basierte Planung cybertronischer Produktionssysteme in frühen Entwicklungsphasen 2016 , 365-374		2
150	Schneidkantenpräparation an Wendeschneidplatten mit elastisch gebundenen Schleifscheiben. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2016 , 111, 492-495	0.5	2
149	Umsetzung technischer Änderungen in der Produktion. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2016 , 111, 531-534	0.5	
148	Development of Micro Pencil Grinding Tools via an Electroless Plating Process 2016 ,		2
147	Transient Finite Element Simulation of the Temperature Field during Cryogenic Turning of Metastable Austenitic Steel AISI 347. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2016 , 16, 303-304	0.2	6
146	Investigation of Chip Formation and Workpiece Load When Machining Carbon-fiber-reinforced-polymer (CFRP). <i>Procedia Manufacturing</i> , 2016 , 6, 124-131	1.5	6
145	Approach for an Integrated Planning of Manufacturing Systems Based on Early Phases of Product Development. <i>Procedia CIRP</i> , 2016 , 57, 467-472	1.8	7
144	Influence of the Quality of Rivet Holes in Carbon-fiber-reinforced-polymer (CFRP) on the Connection Stability. <i>Procedia Manufacturing</i> , 2016 , 6, 140-147	1.5	7
143	Event-driven Production Planning and Control Based on Individual Customer Orders. <i>Procedia CIRP</i> , 2016 , 57, 434-438	1.8	7
142	Manufacturing of new roughness standards for the linearity of the vertical axis [Feasibility study and optimization 2016 , 19, 1993-2001		15
141	Design and Verification of Geometric Roughness Standards by Reverse Engineering. <i>Procedia CIRP</i> , 2016 , 45, 259-262	1.8	12

140	Investigation of Chip Formation and Surface Integrity when Micro-cutting cp-Titanium with Ultra-fine Grain Cemented Carbide. <i>Procedia CIRP</i> , 2016 , 45, 115-118	1.8	7
139	Turning of aluminum metal matrix composites: influence of the reinforcement and the cutting condition on the surface layer of the workpiece. <i>Advances in Manufacturing</i> , 2016 , 4, 225-236	2.7	8
138	Innovative Services for Customized, Availability-oriented Business Models for the Capital Goods Industry. <i>Procedia CIRP</i> , 2016 , 47, 501-506	1.8	15
137	Analysis of Information Interdependencies Between Product Development and Manufacturing System Planning in Early Design Phases. <i>Procedia CIRP</i> , 2016 , 50, 460-465	1.8	12
136	Investigation of wear resistance of dry and cryogenic turned metastable austenitic steel shafts and dry turned and ground carburized steel shafts in the radial shaft seal ring system. <i>Wear</i> , 2015 , 328-329, 123-131	3.5	33
135	Manufacturing system design with virtual factory tools. <i>International Journal of Computer Integrated Manufacturing</i> , 2015 , 28, 25-40	4.3	30
134	Identification of thermal effects on the diameter deviation of inhomogeneous aluminum metal matrix composite workpieces when dry turning. <i>Production Engineering</i> , 2015 , 9, 473-485	1.9	4
133	Micro grinding with ultra small micro pencil grinding tools using an integrated machine tool. <i>CIRP Annals - Manufacturing Technology</i> , 2015 , 64, 325-328	4.9	32
132	Systematic Development of Mobile AR-applications, Special Focus on User Participation. <i>Procedia CIRP</i> , 2015 , 28, 155-160	1.8	1
131	A Software Demonstrator for Measuring the Quality of PSS. <i>Procedia CIRP</i> , 2015 , 30, 209-214	1.8	7
130	Framework to Predict the Environmental Impact of Additive Manufacturing in the Life Cycle of a Commercial Vehicle. <i>Procedia CIRP</i> , 2015 , 29, 408-413	1.8	41
129	Influence of the machining conditions when preparing cutting edges with elastic bonded grinding wheels. <i>Production Engineering</i> , 2015 , 9, 329-336	1.9	9
128	How Services Influence the Energy Efficiency of Machine Tools: A Case Study of a Machine Tool Manufacturer. <i>Procedia CIRP</i> , 2015 , 29, 287-292	1.8	10
127	Method for an Enhanced Assembly Planning Process with Systematic Virtual Reality Inclusion. <i>Procedia CIRP</i> , 2015 , 37, 152-157	1.8	10
126	Simulation of micro cutting considering crystal plastic deformations. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2015 , 15, 331-332	0.2	
125	A Comparison of Techniques to Measure the Wear Flat Area of Conventional and Superabrasive Grinding Wheels. <i>Journal of Tribology</i> , 2015 , 137,	1.8	2
124	Virtual Test Field for Sustainability Assessment of Cybertronic Production Systems 2015 ,		3
123	Assessment of Energetic Leverage Effect Using a Virtual Prototype. <i>Procedia CIRP</i> , 2015 , 37, 36-41	1.8	

122	Deformation behaviour of micro-milled cp-titanium specimens under tensile loading. <i>International Journal of Materials Research</i> , 2015 , 106, 572-579	0.5	4
121	Cleaning of titanium substrates after application in a bioreactor. <i>Biointerphases</i> , 2015 , 10, 019007	1.8	8
120	Planning and Controlling of Multiple, Parallel Engineering Changes in Manufacturing Systems. <i>Procedia CIRP</i> , 2015 , 33, 81-86	1.8	2
119	Finite element computation of discrete configurational forces in crystal plasticity. <i>International Journal of Solids and Structures</i> , 2015 , 56-57, 62-77	3.1	7
118	Produkt-Service-Systeme für Werkzeugmaschinenhersteller. <i>ZWF Zeitschrift Für Wirtschaftlichen Fabrikbetrieb</i> , 2015 , 110, 177-181	0.5	5
117	Wissensmanagement in der additiven Fertigung. <i>ZWF Zeitschrift Für Wirtschaftlichen Fabrikbetrieb</i> , 2015 , 110, 327-330	0.5	3
116	Entwicklungsprozess für cybertronische Produktionssysteme. <i>ZWF Zeitschrift Für Wirtschaftlichen Fabrikbetrieb</i> , 2015 , 110, 466-469	0.5	4
115	Ereignisgesteuerte Produktionsplanung und -steuerung. <i>ZWF Zeitschrift Für Wirtschaftlichen Fabrikbetrieb</i> , 2015 , 110, 830-833	0.5	2
114	Technische Änderungen in der Produktion. <i>ZWF Zeitschrift Für Wirtschaftlichen Fabrikbetrieb</i> , 2015 , 110, 365-369	0.5	1
113	Einsatzpotenzial des Selective Laser Melting-Verfahrens. <i>ZWF Zeitschrift Für Wirtschaftlichen Fabrikbetrieb</i> , 2015 , 110, 718-721	0.5	1
112	Analysis of the machining accuracy when dry turning via experiments and finite element simulations. <i>Production Engineering</i> , 2014 , 8, 41-50	1.9	13
111	Increasing the Resource Efficiency of Machine Tools by Life Cycle Oriented Services. <i>Procedia CIRP</i> , 2014 , 15, 176-181	1.8	8
110	Approach for Predicting Production Scenarios Focused on Cross Impact Analysis. <i>Procedia CIRP</i> , 2014 , 17, 493-498	1.8	7
109	Comparison of the Embodied Energy of a Grinding Wheel and an End Mill. <i>Procedia CIRP</i> , 2014 , 15, 74-79	1.8	18
108	Characterization of deformation induced surface hardening during cryogenic turning of AISI 347. <i>CIRP Annals - Manufacturing Technology</i> , 2014 , 63, 65-68	4.9	36
107	Thermo-elastic deformations of the workpiece when dry turning aluminum alloys - A finite element model to predict thermal effects in the workpiece. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2014 , 7, 233-245	3.4	24
106	Integrated Desktop Machine Tool for Manufacturing and Application of Ultra-small Micro Pencil Grinding Tools. <i>Procedia CIRP</i> , 2014 , 14, 333-338	1.8	8
105	Deformation Induced Surface Hardening when Turning Metastable Austenitic Steel AISI 347 with Different Cryogenic Cooling Strategies. <i>Procedia CIRP</i> , 2014 , 14, 101-106	1.8	33

104	Influence of the Macro-topography of Grinding Wheels on the Cooling Efficiency and the Surface Integrity. <i>Procedia CIRP</i> , 2014 , 13, 8-12	1.8	25
103	Effect of cutting edge preparation of coated tools on their performance in milling various materials. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2014 , 7, 264-273	3.4	52
102	Analysis of the Surface Integrity in Ultra-precision Cutting of Cp-titanium by Investigating the Chip Formation. <i>Procedia CIRP</i> , 2014 , 13, 55-60	1.8	11
101	CFD based Investigation on Internal Cooling of Twist Drills. <i>Procedia CIRP</i> , 2014 , 14, 293-298	1.8	27
100	Finite Element Model to Calculate the Thermal Expansions of the Tool and the Workpiece in Dry Turning. <i>Procedia CIRP</i> , 2014 , 14, 535-540	1.8	7
99	Configurational Forces in Cutting Processes of Microstructured Titanium. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2014 , 14, 331-332	0.2	
98	Strategies for the Computation of Configurational Forces in Dissipative Media. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2014 , 14, 171-172	0.2	
97	A two-scale simulation method accounting for thermal effects during turning. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2014 , 14, 237-238	0.2	
96	A Phase Field Approach for Martensitic Transformations and Crystal Plasticity. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2014 , 14, 383-384	0.2	1
95	Novel materials for biofilm reactors and their characterization. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2014 , 146, 207-33	1.7	5
94	Micromachining of Silicon - Study on the Material Removal Mechanism. <i>Advanced Materials Research</i> , 2014 , 1018, 167-174	0.5	1
93	Quality Assessment of Technical Product-service Systems in the Machine Tool Industry. <i>Procedia CIRP</i> , 2014 , 16, 253-258	1.8	12
92	Quality of Drilled and Milled Rivet Holes in Carbon Fiber Reinforced Plastics. <i>Procedia CIRP</i> , 2014 , 24, 56-61	1.8	8
91	Lifecycle Oriented Assessment of Resource Efficiency in the Commercial Vehicle Industry. <i>Advanced Materials Research</i> , 2014 , 907, 475-487	0.5	1
90	Systematic Development of Mobile AR-Applications Supporting Production Planning 2014 , 219-224		5
89	Investigations on Cryogenic Turning to Achieve Surface Hardening of Metastable Austenitic Steel AISI 347. <i>Advanced Materials Research</i> , 2014 , 1018, 153-160	0.5	3
88	Application of CAD/CAM and Micro End Mills with 20 to 120 μ m Diameter for the Direct Machining of Microstructures in PMMA. <i>Advanced Materials Research</i> , 2014 , 907, 299-306	0.5	0
87	Entwicklung cybertronischer Produktionssysteme. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2014 , 109, 70-73	0.5	12

86	Herstellung von mikrostrukturierten Oberflächen mittels Schleifen. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2014 , 109, 242-246	0.5	4
85	Technische Änderungen in der Produktion. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2014 , 109, 395-399	0.5	5
84	Life Cycle Engineering mit Additive Manufacturing. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2014 , 109, 612-615	0.5	4
83	Improved Quality of Drilled Holes in Laminated Carbon Fiber Reinforced Plastics via Laser-Preprocessing. <i>Lecture Notes in Production Engineering</i> , 2014 , 27-31	0	3
82	Virtual Learning Factory on VR-Supported Factory Planning. <i>Lecture Notes in Computer Science</i> , 2014 , 455-462	0.9	6
81	Randschichtthäten bei der Edelstahlbearbeitung. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2014 , 109, 530-533	0.5	
80	Virtuelle Lernfabrik Kaiserslautern. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2014 , 109, 747-751	0.5	5
79	Sustainability of abrasive processes. <i>CIRP Annals - Manufacturing Technology</i> , 2013 , 62, 653-672	4.9	72
78	Produktive Biofilme. <i>BioSpektrum</i> , 2013 , 19, 216-217	0.1	3
77	Influence of kinematics and abrasive configuration on the grinding process of glass. <i>Journal of Materials Processing Technology</i> , 2013 , 213, 728-739	5.3	17
76	High-frequency tool-spindle for multifunctional, replaceable rotor-modules. <i>Production Engineering</i> , 2013 , 7, 555-560	1.9	1
75	Modeling Deformations of the Workpiece and Removal of Material when Turning. <i>Procedia CIRP</i> , 2013 , 8, 39-44	1.8	8
74	Improved coolant supply through slotted grinding wheel. <i>CIRP Annals - Manufacturing Technology</i> , 2013 , 62, 363-366	4.9	35
73	Virtual Reality as a Collaboration Tool for Factory Planning based on Scenario Technique. <i>Procedia CIRP</i> , 2013 , 7, 133-138	1.8	12
72	Software Tool for Planning and Analyzing Engineering Changes in Manufacturing Systems. <i>Procedia CIRP</i> , 2013 , 12, 348-353	1.8	20
71	Classification of Seemingly Random Failures Using Similarity Analysis. <i>Procedia CIRP</i> , 2013 , 12, 480-485	1.8	1
70	Product-Oriented Sustainability Aspects of Abrasive Processes 2013 ,		1
69	Preventing Self-inflicted Product Piracy in Technical Product-Service Systems. <i>Lecture Notes in Production Engineering</i> , 2013 , 153-164	0	1

68	Productivity and Quality Assessment of Services Within Technical Product-Service Systems 2013 , 125-130		2
67	Modularization of Products and Services for Configuring Product-Service Systems 2013 , 37-41		2
66	Product Benefit as a Key for Assessing Resource Efficiency of Capital Goods 2013 , 455-460		2
65	High-Performance Surface Grinding. <i>Lecture Notes in Production Engineering</i> , 2013 , 81-100	0	
64	Lebenszyklusorientierte Qualitätsbewertung technischer Produkt-Service Systeme. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2013 , 108, 936-940	0.5	
63	Kinematic simulation of high-performance grinding for analysis of chip parameters of single grains. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2012 , 5, 164-174	3.4	68
62	Noise investigation in manufacturing systems: An acoustic simulation and virtual reality enhanced method. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2012 , 5, 337-347	3.4	11
61	VirCA NET and CogInfoCom: Novel challenges in future internet based augmented/Virtual Collaboration 2012 ,		4
60	VirCA NET: A case study for collaboration in shared virtual space 2012 ,		14
59	Effect of the Coating System on the Tool Performance When Turning Heat Treated Aisi 4140. <i>Procedia CIRP</i> , 2012 , 1, 214-219	1.8	14
58	Collaborative Factory Planning in Virtual Reality. <i>Procedia CIRP</i> , 2012 , 3, 317-322	1.8	29
57	Manufacture and application of ultra-small micro end mills. <i>CIRP Annals - Manufacturing Technology</i> , 2012 , 61, 83-86	4.9	79
56	Evaluation of Abrasive Processes and Machines with Respect to Energy Efficiency 2012 , 329-333		7
55	Life Cycle Oriented Quality Assessment of Technical Product-Service Systems 2012 , 49-54		8
54	Wechselbares Werkzeugspindelmodul fflleine Desktopbearbeitungsmaschine. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2012 , 107, 522-527	0.5	1
53	Produktivitätsbewertung von Serviceprodukten. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2012 , 107, 916-919	0.5	
52	Quality oriented maintenance scheduling. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2011 , 4, 15-23	3.4	9
51	The preparation of cutting edges using a marking laser. <i>Production Engineering</i> , 2011 , 5, 17-24	1.9	38

50	Hydraulic design of a grinding wheel with an internal cooling lubricant supply. <i>Production Engineering</i> , 2011 , 5, 119-126	1.9	11
49	Investigation of the tribological behavior of radial shaft rings and soft turned shafts under the influence of abrasive particles. <i>Production Engineering</i> , 2011 , 5, 531-538	1.9	3
48	Virtual Reality Animation of Chip Formation during Turning. <i>Advanced Materials Research</i> , 2011 , 223, 203-211	0.5	4
47	A human-centered Virtual Factory 2011 ,		1
46	Single Grain Scratch Tests to Determine Elastic and Plastic Material Behavior in Grinding. <i>Advanced Materials Research</i> , 2011 , 325, 48-53	0.5	11
45	Customer oriented Configuration of Product-Service Systems 2011 , 81-86		3
44	CBN-GRINDING WHEEL WITH A DEFINED GRAIN PATTERN [EXTENSIVE NUMERICAL AND EXPERIMENTAL STUDIES. <i>Machining Science and Technology</i> , 2010 , 14, 301-322	2	29
43	Ultra-precision grinding. <i>CIRP Annals - Manufacturing Technology</i> , 2010 , 59, 652-671	4.9	326
42	How to design and offer services successfully. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2010 , 2, 136-143	3.4	136
41	Continuous improvement of industrial product-service systems. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2010 , 3, 158-164	3.4	47
40	Driving forces on interfaces in elastic-plastic two phase materials. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2010 , 90, 812-820	1	6
39	Produkt-Service Systeme 2010 ,		23
38	An Approach to Identify RFID Application Potentials and to Implement Smart Tools. <i>Advances in Intelligent and Soft Computing</i> , 2010 , 433-447		
37	Configuration of product-service systems. <i>Journal of Manufacturing Technology Management</i> , 2009 , 20, 591-605	7.1	69
36	Burr Analysis, control and removal. <i>CIRP Annals - Manufacturing Technology</i> , 2009 , 58, 519-542	4.9	239
35	Modelling and simulation of process: machine interaction in grinding. <i>Production Engineering</i> , 2009 , 3, 111-120	1.9	71
34	Optimization of the Kinematics Available in the Polishing Process of Ceramic Tiles by Computational Simulations. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 41-48	3.8	8
33	Micro grinding tool for manufacture of complex structures in brittle materials. <i>CIRP Annals - Manufacturing Technology</i> , 2009 , 58, 311-314	4.9	91

32	Improvement of manufacturing processes with virtual reality-based CIP workshops. <i>International Journal of Production Research</i> , 2009 , 47, 5297-5309	7.8	37
31	Process chains in cross enterprise production: a module-based design framework. <i>International Journal of Production Research</i> , 2008 , 46, 4947-4962	7.8	4
30	Defect classification for mechatronic products. <i>Production Engineering</i> , 2008 , 2, 193-200	1.9	2
29	High-performance dry grinding using a grinding wheel with a defined grain pattern. <i>CIRP Annals - Manufacturing Technology</i> , 2008 , 57, 357-362	4.9	99
28	Intelligente Werkzeuge und Spannsysteme durch RFID. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2008 , 103, 883-887	0.5	3
27	Integrated Design of Industrial Product-Service Systems 2008 , 543-546		5
26	Implementation Strategy for a Flexibility Oriented Production System 2008 , 315-318		1
25	Kinematics of a single abrasive particle during the industrial polishing process of porcelain stoneware tiles. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 3183-3190	6	24
24	Analytical Determination of the Distribution of Polishing Time over the Surface of Polished Tiles. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 3468-3477	3.8	12
23	Production function and knowledge: a strategic perspective. <i>Production Engineering</i> , 2007 , 1, 193-198	1.9	4
22	Interaction of process and machine during high-performance grinding: towards a comprehensive simulation concept. <i>International Journal of Manufacturing Technology and Management</i> , 2007 , 12, 155	0.4	7
21	Lebenszyklusorientierte Konfiguration investiver Produkt-Service Systeme. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2007 , 102, 820-824	0.5	3
20	Life Cycle Management of Industrial Product-Service Systems 2007 , 171-176		33
19	Engineering Change Impact Analysis in Production Using VR 2007 , 75-82		13
18	Life cycle oriented design of technical Product-Service Systems. <i>Journal of Cleaner Production</i> , 2006 , 14, 1480-1494	10.3	455
17	Experimental Investigation of Burr Formation in the Surface Grinding of Tool Steel. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2006 , 220, 489-497	2.4	3
16	Finite element simulation of chip formation coupled with process dynamics. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2006 , 220, 1597-1604	2.4	3
15	Advances in Modeling and Simulation of Grinding Processes. <i>CIRP Annals - Manufacturing Technology</i> , 2006 , 55, 667-696	4.9	302

14	3D Finite Element Modelling of Segmented Chip Formation. <i>CIRP Annals - Manufacturing Technology</i> , 2006 , 55, 47-50	4.9	58
13	Flexibilit�sorientiertes Produktionssystem f�r den Mittelstand. <i>ZWF Zeitschrift F�r Wirtschaftlichen Fabrikbetrieb</i> , 2006 , 101, 709-714	0.5	1
12	Characterisation of Burr Formation in Grinding and Prospects for Modelling. <i>CIRP Annals - Manufacturing Technology</i> , 2005 , 54, 313-316	4.9	21
11	Mechanismen der Werkstoffbeanspruchungen sowie deren Beeinflussung bei der Zersp�nung mit hohen Geschwindigkeiten 2005 , 304-329		0
10	Production projects � Designing and operating lifecycle-oriented and flexibility-optimized production systems as a project. <i>International Journal of Production Research</i> , 2004 , 42, 3589-3601	7.8	7
9	A finite-element-analysis of orthogonal metal cutting processes. <i>AIP Conference Proceedings</i> , 2004 ,	0	2
8	An Approach to Life Cycle Oriented Technical Service Design. <i>CIRP Annals - Manufacturing Technology</i> , 2004 , 53, 151-154	4.9	93
7	A Holistic Education Approach for the Factory of the Future. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2003 , 36, 275-278		
6	Development of a Superabrasive Grinding Wheel With Defined Grain Structure Using Kinematic Simulation. <i>CIRP Annals - Manufacturing Technology</i> , 2003 , 52, 275-280	4.9	74
5	Prozessmodule zur Gestaltung flexibilit�sgerechter Produktionssysteme. <i>ZWF Zeitschrift F�r Wirtschaftlichen Fabrikbetrieb</i> , 2003 , 98, 214-218	0.5	18
4	Bausteinbasierte Modellierung unternehmensbergreifender Produktionsprozesse. <i>ZWF Zeitschrift F�r Wirtschaftlichen Fabrikbetrieb</i> , 2003 , 98, 661-665	0.5	4
3	Projektorientierung der Produktion. <i>ZWF Zeitschrift F�r Wirtschaftlichen Fabrikbetrieb</i> , 2002 , 97, 514-518	0.5	4
2	A Unified Approach to Free-Form and Regular Feature Modeling. <i>CIRP Annals - Manufacturing Technology</i> , 1996 , 45, 125-128	4.9	5
1	Phase Transformation as a Result of Mechanical Loading and Turning of Metastable Austenitic Steels	877-884	6