Jean Marc Jml Linares

List of Publications by Year
in descending order

61	774	623574	552653
papers	citations	14 h-index	26 g-index

68	68	68	533
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On-machine and in-process surface metrology for precision manufacturing. CIRP Annals - Manufacturing Technology, 2019, 68, 843-866.	1.7	259
2	Impact of measurement procedure when error mapping and compensating a small CNC machine using a multilateration laser interferometer. Precision Engineering, 2014, 38, 578-588.	1.8	47
3	Improving tool wear and surface covering in polishing via toolpath optimization. Journal of Materials Processing Technology, 2013, 213, 1661-1668.	3.1	38
4	Fatigue life optimization for 17-4Ph steel produced by selective laser melting. Rapid Prototyping Journal, 2022, 28, 1182-1192.	1.6	31
5	Aide in decision-making: contribution to uncertainties in three-dimensional measurement. Precision Engineering, 2004, 28, 78-88.	1.8	30
6	A new methodology to optimize spiral bevel gear topography. CIRP Annals - Manufacturing Technology, 2013, 62, 119-122.	1.7	29
7	Geometrical checking by virtual gauge, including measurement uncertainties. CIRP Annals - Manufacturing Technology, 2008, 57, 513-516.	1.7	24
8	Control of the contact force in a pre-polishing operation of free-form surfaces realised with a 5-axis CNC machine. CIRP Annals - Manufacturing Technology, 2015, 64, 309-312.	1.7	24
9	Uncertainties in CMM Measurements, Control of ISO Specifications. CIRP Annals - Manufacturing Technology, 2003, 52, 423-426.	1.7	23
10	New methodology to reduce the transmission error of the spiral bevel gears. CIRP Annals - Manufacturing Technology, 2014, 63, 165-168.	1.7	22
11	Applied iterative closest point algorithm to automated inspection of gear box tooth. Computers and Industrial Engineering, 2007, 52, 162-173.	3.4	18
12	Smart sequential multilateration measurement strategy for volumetric error compensation of an extra-small machine tool. Precision Engineering, 2016, 43, 178-186.	1.8	17
13	Impact of geometrical defects on bearing assemblies with integrated raceways in aeronautical gearboxes. Mechanism and Machine Theory, 2009, 44, 1108-1120.	2.7	16
14	Modelling and traceability for computationally-intensive precision engineering and metrology. CIRP Annals - Manufacturing Technology, 2018, 67, 815-838.	1.7	14
15	Fatigue lifespan of a planetary roller-screw mechanism. Mechanism and Machine Theory, 2022, 172, 104769.	2.7	14
16	The statistical gauge in geometrical verification. Precision Engineering, 2009, 33, 333-341.	1.8	11
17	Adaptation of machining toolpath to distorted geometries: application to remove a constant thickness on rough casting prosthesis. International Journal of Advanced Manufacturing Technology, 2014, 72, 1073-1083.	1.5	10
18	Towards an understanding of surface finishing with compliant tools using a fast and accurate simulation method. International Journal of Machine Tools and Manufacture, 2021, 163, 103704.	6.2	9

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19	Uncertainty of reference frames characterized by real time optical measurements: Application to Computer Assisted Orthopaedic Surgery. CIRP Annals - Manufacturing Technology, 2009, 58, 447-450.	1.7	8
20	Benefits and limitations of parametric design implementation in helicopter gearbox design phase. CIRP Annals - Manufacturing Technology, 2011, 60, 199-202.	1.7	8
21	Multibody modeling of non-planar ball bearings. Mechanics and Industry, 2013, 14, 335-345.	0.5	8
22	Optimization of pre-polishing parameters on a 5-axis milling machine. International Journal of Advanced Manufacturing Technology, 2016, 85, 443-454.	1.5	8
23	Effects of realistic sheep elbow kinematics in inverse dynamic simulation. PLoS ONE, 2019, 14, e0213100.	1.1	8
24	The statistical gauge in geometrical verification. Part II. The virtual gauge and verification process. Precision Engineering, 2009, 33, 342-352.	1.8	7
25	Increasing of surface quality in friction free-form surfaces of knee prosthesis. CIRP Annals - Manufacturing Technology, 2011, 60, 531-534.	1.7	7
26	Optical measurement for the estimation of contact pressure and stress. CIRP Annals - Manufacturing Technology, 2012, 61, 483-486.	1.7	7
27	Smart pressure distribution estimation in biological joints for mechanical bio-inspired design. CIRP Annals - Manufacturing Technology, 2018, 67, 153-156.	1.7	6
28	Titanium implant impairment and surrounding muscle cell death following neuroâ€•myoelectrostimulation: An in vivo study. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 1594-1601.	1.6	5
29	New methodology to define roller geometry on power bearings. CIRP Annals - Manufacturing Technology, 2016, 65, 157-160.	1.7	5
30	Wear Behavior of a Bio-inspired Bearing for off-center Loads. Journal of Bionic Engineering, 2020, 17, 1251-1262.	2.7	5
31	Ã‰tude des mÃ©thodes de calcul des pressions de contact dans les roulements Ã pistes intÃ©grÃ©es des boÃ®tes de transmission aÃ©ronautiques. Mecanique Et Industries, 2007, 8, 567-575.	0.2	4
32	Best-fit criterion within the context of likelihood maximization estimation. Measurement: Journal of the International Measurement Confederation, 2010, 43, 538-548.	2.5	4
33	Biocompatibility of four common orthopedic biomaterials following neuroelectromyostimulation: An inâ€•vivo study. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 1156-1164.	1.6	4
34	Bio-inspired Topological Skeleton for the Analysis of Quadruped Kinematic Gait. Journal of Bionic Engineering, 2018, 15, 839-850.	2.7	4
35	Effect of form errors on the positioning precision of over-constrained systems. CIRP Annals - Manufacturing Technology, 2019, 68, 519-522.	1.7	4
36	Design optimization using Statistical Confidence Boundaries of response surfaces: Application to robust design of a biomedical implant. CIRP Annals - Manufacturing Technology, 2014, 63, 141-144.	1.7	3

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37	Improvement of toolpath quality combining polynomial interpolation with reduction of toolpath points. International Journal of Advanced Manufacturing Technology, 2015, 78, 875-883.	1.5	3
38	Biocompatibility of Four Common Orthopedic Biomaterials Following a High-Salt Diet: An In Vivo Study. International Journal of Molecular Sciences, 2017, 18, 1489.	1.8	3
39	Load bearing performance of mechanical joints inspired by elbow of quadrupedal mammals. Bioinspiration and Biomimetics, 2021, 16, 046025.	1.5	3
40	Generative design of joint contact surfaces inspired by biological morphogenesis. CIRP Annals - Manufacturing Technology, 2022, 71, 125-128.	1.7	3
41	Effects of number of digits in large-scale multilateration. Precision Engineering, 2020, 64, 1-6.	1.8	2
42	A multivariate statistical strategy to adjust musculoskeletal models. Journal of Biomechanics, 2020, 104, 109724.	0.9	2
43	Titanium Implant Impairment and Surrounding Muscle Cell Death Following High-Salt Diet: An In Vivo Study. PLoS ONE, 2016, 11, e0146873.	1.1	2
44	Contribution of nonlinear optimization to the determination of measurement uncertainties. , 2003, , 237-244.		2
45	DÃ©termination des incertitudes des surfaces associÃ©esDetermination of associated surface uncertainties. Mecanique Et Industries, 2002, 3, 261-266.	0.2	1
46	Stress optimization and study of the sensitivity to geometric variations of a spur gear tooth profile. Mechanics and Industry, 2013, 14, 31-41.	0.5	1
47	Measurement Parameters Optimized for Sequential Multilateration in Calibrating a Machine Tool with a DOE Method. Applied Sciences (Switzerland), 2016, 6, 313.	1.3	1
48	UNCERTAINTY CALCULATION OF A MULTICAMERA TRACKING SYSTEM IN A CAVE. Series on Advances in Mathematics for Applied Sciences, 2012, , 151-158.	0.0	1
49	USING STATISTICAL CONFIDENCE BOUNDARY OF A D.O.E. RESPONSE SURFACE TO ESTIMATE OPTIMAL FACTORS. Series on Advances in Mathematics for Applied Sciences, 2012, , 74-81.	0.0	1
50	Determination of biological joint reaction forces from in-vivo experiments using a hybrid combination of biomechanical and mechanical engineering software. Mechanics and Industry, 2020, 21, 623.	0.5	1
51	TolÃ©rancement fonctionnel optimisÃ© par la mÃ©thode des dispersions. Mecanique Et Industries, 2011, 12, 139-146.	0.2	0
52	Study of Bearing Modelling in the Helicopter Gearbox. Applied Mechanics and Materials, 2011, 86, 721-724.	0.2	0
53	Method to determine bones' relative displacement using a CT scan: application to the scaphoid and lunate bones. Computer Methods in Biomechanics and Biomedical Engineering, 2013, 16, 231-233.	0.9	0
54	Uncertainties in Tolerance Analysis and Specification Checking. , 2013, , 341-374.		0

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55	SIMULATION METHOD TO ESTIMATE THE UNCERTAINTIES OF ISO SPECIFICATIONS. Series on Advances in Mathematics for Applied Sciences, 2015, , 252-259.	0.0	0
56	A NEW APPROACH FOR THE MATHEMATICAL ALIGNMENT MACHINE TOOL-PATHS ON A FIVE-AXIS MACHINE AND ITS EFFECT ON SURFACE ROUGHNESS. Series on Advances in Mathematics for Applied Sciences, 2015, , 116-123.	0.0	0
57	Uncertainty Estimation in Computational Tools in Metrology. Precision Manufacturing, 2019, , 585-600.	0.1	0
58	CONTRIBUTION TO SURFACE BEST FIT ENHANCEMENT BY THE INTEGRATION OF THE REAL POINT DISTRIBUTION. , 2006, , .		0
59	LIKELIHOOD MAXIMIZATION AGAINST THE PROBABILITY DENSITY FUNCTION SHAPE. Series on Advances in Mathematics for Applied Sciences, 2009, , 7-13.	0.0	0
60	COORDINATE GENERATOR FOR TKA NAVIGATOR TESTING AFTER REFERENCE FRAME DISPLACEMENT. Series on Advances in Mathematics for Applied Sciences, 2012, , 244-251.	0.0	0
61	Uncertainty Estimation in Computational Tools in Metrology. Precision Manufacturing, 2019, , 1-16.	0.1	0