

# Franz Irlinger

## List of Publications by Year in descending order

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45  
papers

168  
citations

1937685

4  
h-index

1372567

10  
g-index

47  
all docs

47  
docs citations

47  
times ranked

125  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of Infill Structures and Process Parameters on the Tensile Strength of 3D-printed PEEK Parts. , 2019, , .		4
2	A novel building strategy to reduce warpage in droplet-based additive manufacturing of semi-crystalline polymers. , 2018, , .		3
3	A novel piezoelectric printhead for high melting point liquid metals. , 2016, , .		4
4	Three-Position Synthesis of Origami-Evolved, Spherically Constrained Spatial Revolute“Revolute Chains. Journal of Mechanisms and Robotics, 2016, 8, .	2.2	4
5	Software tool for detection and filling of voids as a part of tool-path strategy development for droplet generating 3D printers. , 2015, , .		2
6	Automatic, reference-free and conformity-oriented evaluation and interpretation of CT-models. , 2015, , .		0
7	Three-Position Synthesis of Spherically Constrained Planar 3R Chains. , 2015, , .		0
8	Four-Position Synthesis of Origami-Evolved, Spherically Constrained Planar RR Chains. Mechanisms and Machine Science, 2015, , 63-71.	0.5	1
9	Computer Aided, Task-Based Kinematic Design of Linkages: A New Lecture for Engineering Students. Mechanisms and Machine Science, 2015, , 891-899.	0.5	0
10	Algorithm for Detecting and Solving the Problem of Under-Filled Pointed Ends Based on 3D Printing Plastic Droplet Generation. , 2014, , .		2
11	Evaluation of the infill algorithm for trajectory planning of pointed ends for droplet-generating 3D printers. , 2014, , .		0
12	Compact Model for the Static and Dynamic Behavior of a Piezoelectric Bimorph Actuator for Microfluidic MEMS. , 2014, , .		0
13	Relevant Influencing Factors on Droplet Characteristics for a Piezoelectrically Driven Drop-on-Demand Printhead. , 2014, , .		0
14	Compact model for the characterization of a piezoelectric bend-mode droplet generator. , 2014, , .		0
15	Kinematic Design of Miura-Ori-Based Folding Structures Using the Screw Axis of a Relative Displacement. , 2014, , 233-241.		1
16	Manual microassembly system with integrated squeegee device for homogenous and defined adhesive layers for bimorph piezoelectric actuators using in drop-on-demand techniques. , 2013, , .		1
17	Robust Applicator Registration for Interstitial Gynecologic Brachytherapy. Brachytherapy, 2013, 12, S53.	0.5	2
18	Dense 3D-packing algorithm for filling the offset contours of a new printing process based on 3D plastic droplet generation. , 2013, , .		3

#	ARTICLE	IF	CITATIONS
19	G-Code Generation for a New Printing Process Based on 3D Plastic Polymer Droplet Generation. , 2013, , .		5
20	Friction Coefficients and Surface Properties for Laser Sintered Parts. , 2013, , .		7
21	Two-Configuration Synthesis of Origami-Guided Planar, Spherical and Spatial Revolute“Revolute Chains. Journal of Mechanisms and Robotics, 2013, 5, .	2.2	8
22	Fast Droplet Generation With a Printhead Manufactured With Rapid Manufacturing Techniques Mounted on a Carrier Board. , 2013, , .		1
23	Optimization of the Electro-Mechanical Behavior of a Bimorph Piezoelectric Actuator for Drop-on-Demand Techniques Based on Finite Element Method. , 2013, , .		0
24	Use of an analytic approach to proof numerical calculations of the deflection behaviour of thin plates. , 2012, , .		0
25	Laser source independent basic parameters &#x2014; Focus position, pulse overlap, track overlap &#x2014; In laser micro milling using as rapid manufacturing process. , 2012, , .		2
26	Piezo inkjet drop-on-demand experimentation platform manufactured with rapid prototyping techniques enabling future technologies. , 2012, , .		2
27	Modification and further development of a drop on demand printhead for wax enabling future 3D-printing and rapid prototyping. , 2012, , .		4
28	Intelligent Combination of Batch Fabrication With Rapid Prototyping Techniques for a Drop-on-Demand Microdrop Generator. , 2012, , .		3
29	Redesign of a Test Environment for an Elastic Mechanism for Usage as Pressure Sensor Element. , 2012, , .		0
30	Design, construction, and verification of a printhead - tolerant towards bubbles - dosing liquid wax using rapid prototyping techniques. , 2011, , .		3
31	Fabrication and Application of a Chemical Resistant Low-Cost Microdrop Generator. , 2011, , .		6
32	Druckabhangigkeit des Massenstroms von Polypropylenschmelzen durch Mikrodusen kleiner 500m. Chemie-Ingenieur-Technik, 2011, 83, 552-557.	0.8	4
33	Development and application of a low-cost manual micro assembly system with integrated heater. , 2011, , .		2
34	Laser source independent basic parameters in micro-cutting. , 2011, , .		7
35	Tremor compensation by use of a mechatronic cup holder. , 2010, , .		2
36	Indium solder printing for low temperature applications and modeling of a droplet generator. , 2010, , .		3

#	ARTICLE	IF	CITATIONS
37	A fully passive fluidic cup holder for tremor compensation. , 2010, , .		0
38	A spatial path specification system for mechanism development. , 2009, , .		3
39	Hydroxyapatite powder used for rapid prototyping in medical engineering. International Journal of Computer Applications in Technology, 2009, 36, 32.	0.5	3
40	A new method for printer calibration and contour accuracy manufacturing with 3Dâ€print technology. Rapid Prototyping Journal, 2008, 14, 167-172.	3.2	65
41	Solder bumping for flip-chips with an electro-magnetic actuator. , 2008, , .		0
42	Microfluidic Module System with Piezo Driven Microvalve for Synthesis of Radiopharmaceutical Products. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5708-11.	0.5	8
43	Reduction of door discomfort in access and exit situations while parking. ATZ Worldwide, 2007, 109, 36-39.	0.1	0
44	Ein Verfahren zur automatisierten Herstellung von MikrodÃ¼sen aus Glaskapillaren zur Tropfenerzeugung. Chemie-Ingenieur-Technik, 2007, 79, 1686-1692.	0.8	0
45	A Feasibility Study on Driver Model Based Lap Time Simulation Using Genetic Algorithms. SAE International Journal of Passenger Cars - Mechanical Systems, 0, 10, 401-412.	0.4	1