

Franz Irlinger

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3178616/publications.pdf>

Version: 2024-02-01

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	A new method for printer calibration and contour accuracy manufacturing with 3D-print technology. Rapid Prototyping Journal, 2008, 14, 167-172.	3.2	65
2	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
3	Two-Configuration Synthesis of Origami-Guided Planar, Spherical and Spatial Revolute-Revolute Chains. Journal of Mechanisms and Robotics, 2013, 5, .	2.2	8
4	Laser source independent basic parameters in micro-cutting. , 2011, , .		7
5	Friction Coefficients and Surface Properties for Laser Sintered Parts. , 2013, , .		7
6	Fabrication and Application of a Chemical Resistant Low-Cost Microdrop Generator. , 2011, , .		6
7	G-Code Generation for a New Printing Process Based on 3D Plastic Polymer Droplet Generation. , 2013, , .		5
8	Druckabhangigkeit des Massenstroms von Polypropylenschmelzen durch Mikrodusen kleiner 500µm. Chemie-Ingenieur-Technik, 2011, 83, 552-557.	0.8	4
9	Modification and further development of a drop on demand printhead for wax enabling future 3D-printing and rapid prototyping. , 2012, , .		4
10	A novel piezoelectric printhead for high melting point liquid metals. , 2016, , .		4
11	Three-Position Synthesis of Origami-Evolved, Spherically Constrained Spatial Revolute-Revolute Chains. Journal of Mechanisms and Robotics, 2016, 8, .	2.2	4
12	Influence of Infill Structures and Process Parameters on the Tensile Strength of 3D-printed PEEK Parts. , 2019, , .		4
13	A spatial path specification system for mechanism development. , 2009, , .		3
14	Hydroxyapatite powder used for rapid prototyping in medical engineering. International Journal of Computer Applications in Technology, 2009, 36, 32.	0.5	3
15	Indium solder printing for low temperature applications and modeling of a droplet generator. , 2010, , .		3
16	Design, construction, and verification of a printhead - tolerant towards bubbles - dosing liquid wax using rapid prototyping techniques. , 2011, , .		3
17	Intelligent Combination of Batch Fabrication With Rapid Prototyping Techniques for a Drop-on-Demand Microdrop Generator. , 2012, , .		3
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	A novel building strategy to reduce warpage in droplet-based additive manufacturing of semi-crystalline polymers. , 2018, , .		3
20	Tremor compensation by use of a mechatronic cup holder. , 2010, , .		2
21	Development and application of a low-cost manual micro assembly system with integrated heater. , 2011, , .		2
22	Laser source independent basic parameters — Focus position, pulse overlap, track overlap — In laser micro milling using as rapid manufacturing process. , 2012, , .		2
23	Piezo inkjet drop-on-demand experimentation platform manufactured with rapid prototyping techniques enabling future technologies. , 2012, , .		2
24	Robust Applicator Registration for Interstitial Gynecologic Brachytherapy. Brachytherapy, 2013, 12, S53.	0.5	2
25	Algorithm for Detecting and Solving the Problem of Under-Filled Pointed Ends Based on 3D Printing Plastic Droplet Generation. , 2014, , .		2
26	Software tool for detection and filling of voids as a part of tool-path strategy development for droplet generating 3D printers. , 2015, , .		2
27	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
28	Fast Droplet Generation With a Printhead Manufactured With Rapid Manufacturing Techniques Mounted on a Carrier Board. , 2013, , .		1
29	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
30	Kinematic Design of Miura-Ori-Based Folding Structures Using the Screw Axis of a Relative Displacement. , 2014, , 233-241.		1
31	Four-Position Synthesis of Origami-Evolved, Spherically Constrained Planar RR Chains. Mechanisms and Machine Science, 2015, , 63-71.	0.5	1
32	Reduction of door discomfort in access and exit situations while parking. ATZ Worldwide, 2007, 109, 36-39.	0.1	0
33	Ein Verfahren zur automatisierten Herstellung von MikrodÄ¼sen aus Glaskapillaren zur Tropfenerzeugung. Chemie-Ingenieur-Technik, 2007, 79, 1686-1692.	0.8	0
34	Solder bumping for flip-chips with an electro-magnetic actuator. , 2008, , .		0
35	A fully passive fluidic cup holder for tremor compensation. , 2010, , .		0
36	Use of an analytic approach to proof numerical calculations of the deflection behaviour of thin plates. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
37	Optimization of the Electro-Mechanical Behavior of a Bimorph Piezoelectric Actuator for Drop-on-Demand Techniques Based on Finite Element Method. , 2013, , .		0
38	Evaluation of the infill algorithm for trajectory planning of pointed ends for droplet-generating 3D printers. , 2014, , .		0
39	Compact Model for the Static and Dynamic Behavior of a Piezoelectric Bimorph Actuator for Microfluidic MEMS. , 2014, , .		0
40	Relevant Influencing Factors on Droplet Characteristics for a Piezoelectrically Driven Drop-on-Demand Printhead. , 2014, , .		0
41	Compact model for the characterization of a piezoelectric bend-mode droplet generator. , 2014, , .		0
42	Automatic, reference-free and conformity-oriented evaluation and interpretation of CT-models. , 2015, , .		0
43	Three-Position Synthesis of Spherically Constrained Planar 3R Chains. , 2015, , .		0
44	Redesign of a Test Environment for an Elastic Mechanism for Usage as Pressure Sensor Element. , 2012, , .		0
45	Computer Aided, Task-Based Kinematic Design of Linkages: A New Lecture for Engineering Students. Mechanisms and Machine Science, 2015, , 891-899.	0.5	0