

# Albert J Shih

## List of Publications by Citations

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268  
papers

5,260  
citations

40  
h-index

58  
g-index

303  
ext. papers

6,144  
ext. citations

3.7  
avg. IF

5.94  
L-index

#	Paper	IF	Citations
268	Application of Nanofluids in Minimum Quantity Lubrication Grinding. <i>Tribology Transactions</i> , <b>2008</b> , 51, 730-737	1.8	158
267	Experimental Study of the Dry and Near-Dry Electrical Discharge Milling Processes. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2008</b> , 130,	3.3	125
266	Additive manufacturing of custom orthoses and prostheses—A review. <i>Additive Manufacturing</i> , <b>2016</b> , 12, 77-89	6.1	120
265	Near dry electrical discharge machining. <i>International Journal of Machine Tools and Manufacture</i> , <b>2007</b> , 47, 2273-2281	9.4	108
264	Fixed abrasive diamond wire machining—Part I: process monitoring and wire tension force. <i>International Journal of Machine Tools and Manufacture</i> , <b>2003</b> , 43, 523-532	9.4	106
263	Chip formation, cutting forces, and tool wear in turning of Zr-based bulk metallic glass. <i>International Journal of Machine Tools and Manufacture</i> , <b>2004</b> , 44, 915-925	9.4	104
262	Magnetorheological fluid-controlled boring bar for chatter suppression. <i>Journal of Materials Processing Technology</i> , <b>2009</b> , 209, 1861-1870	5.3	90
261	High-throughput drilling of titanium alloys. <i>International Journal of Machine Tools and Manufacture</i> , <b>2007</b> , 47, 63-74	9.4	82
260	Fixed Abrasive Diamond Wire Saw Slicing of Single-Crystal Silicon Carbide Wafers. <i>Materials and Manufacturing Processes</i> , <b>2004</b> , 19, 355-367	4.1	82
259	Minimum Quantity Lubrication (MQL) in Automotive Powertrain Machining. <i>Procedia CIRP</i> , <b>2014</b> , 14, 523-528	5.8	78
258	Additive Manufacturing of Custom Orthoses and Prostheses—A Review. <i>Procedia CIRP</i> , <b>2015</b> , 36, 199-204	1.8	75
257	Development of the Cylindrical Wire Electrical Discharge Machining Process, Part 2: Surface Integrity and Roundness. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2002</b> , 124, 708-714	3.3	72
256	Development of the Cylindrical Wire Electrical Discharge Machining Process, Part 1: Concept, Design, and Material Removal Rate. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2002</b> , 124, 702-707	3.3	71
255	Sliding tribological characteristics of Zr-based bulk metallic glass. <i>Intermetallics</i> , <b>2008</b> , 16, 34-41	3.5	69
254	Deep hole drilling. <i>CIRP Annals - Manufacturing Technology</i> , <b>2018</b> , 67, 673-694	4.9	68
253	Friction drilling of cast metals. <i>International Journal of Machine Tools and Manufacture</i> , <b>2006</b> , 46, 1526-1535	3.4	68
252	Machining of a ZrTiAlCuNi metallic glass. <i>Scripta Materialia</i> , <b>2004</b> , 50, 583-588	5.6	66

251	Microstructural alterations associated with friction drilling of steel, aluminum, and titanium. <i>Journal of Materials Engineering and Performance</i> , <b>2005</b> , 14, 647-653	1.6	66
250	Tool wear in friction drilling. <i>International Journal of Machine Tools and Manufacture</i> , <b>2007</b> , 47, 1636-1645	5.4	65
249	Oxidation and crystallization of Zr-based bulk metallic glass due to machining. <i>Intermetallics</i> , <b>2004</b> , 12, 195-204	3.5	65
248	Experimental and finite element predictions of residual stresses due to orthogonal metal cutting. <i>International Journal for Numerical Methods in Engineering</i> , <b>1993</b> , 36, 1487-1507	2.4	63
247	Light emission, chip morphology, and burr formation in drilling the bulk metallic glass. <i>International Journal of Machine Tools and Manufacture</i> , <b>2005</b> , 45, 741-752	9.4	62
246	Thermo-Mechanical Finite Element Modeling of the Friction Drilling Process. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2007</b> , 129, 531-538	3.3	60
245	Development of a 3D-printed external ventricular drain placement simulator: technical note. <i>Journal of Neurosurgery</i> , <b>2015</b> , 123, 1070-6	3.2	59
244	Image-Guided Biopsy in the Era of Personalized Cancer Care: Proceedings from the Society of Interventional Radiology Research Consensus Panel. <i>Journal of Vascular and Interventional Radiology</i> , <b>2016</b> , 27, 8-19	2.4	59
243	Experimental and Numerical Analysis of the Friction Drilling Process. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2006</b> , 128, 802-810	3.3	58
242	Finite element analysis of the rake angle effects in orthogonal metal cutting. <i>International Journal of Mechanical Sciences</i> , <b>1995</b> , 38, 1-17	5.5	54
241	The extrusion-based additive manufacturing of moisture-cured silicone elastomer with minimal void for pneumatic actuators. <i>Additive Manufacturing</i> , <b>2017</b> , 17, 1-14	6.1	53
240	Tool wear monitoring for micro-end grinding of ceramic materials. <i>Journal of Materials Processing Technology</i> , <b>2009</b> , 209, 5110-5116	5.3	52
239	Fixed abrasive diamond wire machining Part II: experiment design and results. <i>International Journal of Machine Tools and Manufacture</i> , <b>2003</b> , 43, 533-542	9.4	52
238	Wire electrical discharge machining of metal bond diamond wheels for ceramic grinding. <i>International Journal of Machine Tools and Manufacture</i> , <b>2002</b> , 42, 1355-1362	9.4	51
237	Modeling of the Anode Crater Formation in Electrical Discharge Machining. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2012</b> , 134,	3.3	50
236	Metallurgical analysis and nanoindentation characterization of Ti6Al4V workpiece and chips in high-throughput drilling. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 472, 115-124	5.3	48
235	Hollow needle tissue insertion force model. <i>CIRP Annals - Manufacturing Technology</i> , <b>2011</b> , 60, 157-160	4.9	47
234	Finite element modeling of 3D turning of titanium. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2006</b> , 29, 253-261	3.2	47

233	Finite element analysis of orthogonal metal cutting mechanics. <i>International Journal of Machine Tools and Manufacture</i> , <b>1996</b> , 36, 255-273	9-4	47
232	Investigation of the spark cycle on material removal rate in wire electrical discharge machining of advanced materials. <i>International Journal of Machine Tools and Manufacture</i> , <b>2004</b> , 44, 391-400	9-4	46
231	Novel needle cutting edge geometry for end-cut biopsy. <i>Medical Physics</i> , <b>2012</b> , 39, 99-108	4-4	43
230	Tool Temperature in Titanium Drilling. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2007</b> , 129, 740-749	3-3	43
229	Effects of nanoparticle layering on nanofluid and base fluid pool boiling heat transfer from a horizontal surface under atmospheric pressure. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 114302	2-5	41
228	A physical simulator for endoscopic endonasal drilling techniques: technical note. <i>Journal of Neurosurgery</i> , <b>2016</b> , 124, 811-6	3-2	40
227	Thermal model to investigate the temperature in bone grinding for skull base neurosurgery. <i>Medical Engineering and Physics</i> , <b>2013</b> , 35, 1391-8	2-4	40
226	EVALUATION AND COMPARISON OF LUBRICANT PROPERTIES IN MINIMUM QUANTITY LUBRICATION MACHINING. <i>Machining Science and Technology</i> , <b>2011</b> , 15, 376-391	2	40
225	Mechanical properties of Nylon bonded NdFeB permanent magnets. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2003</b> , 257, 32-43	2-8	40
224	Investigation of wire electrical discharge machining of thin cross-sections and compliant mechanisms. <i>International Journal of Machine Tools and Manufacture</i> , <b>2005</b> , 45, 1717-1725	9-4	40
223	A three-dimensional inverse problem in estimating the applied heat flux of a titanium drilling □ Theoretical and experimental studies. <i>International Journal of Heat and Mass Transfer</i> , <b>2007</b> , 50, 3265-3279	4-9	38
222	Investigation of the effects of electrode orientation and fluid flow rate in near-dry EDM milling. <i>International Journal of Machine Tools and Manufacture</i> , <b>2009</b> , 49, 749-758	9-4	37
221	A Heat Transfer Model Based on Finite Difference Method for Grinding. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2011</b> , 133,	3-3	37
220	An analytical finite element model for predicting three-dimensional tool forces and chip flow. <i>International Journal of Machine Tools and Manufacture</i> , <b>2002</b> , 42, 723-731	9-4	36
219	Mechanical properties of polyphenylene-sulfide (PPS) bonded NdFeB permanent magnets. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2003</b> , 359, 375-383	5-3	36
218	Metal removal rate of <i>Thiobacillus thiooxidans</i> without pre-secreted metabolite. <i>Journal of Materials Processing Technology</i> , <b>2008</b> , 201, 560-564	5-3	35
217	Boiling surface enhancement by electrophoretic deposition of particles from a nanofluid. <i>International Journal of Heat and Mass Transfer</i> , <b>2011</b> , 54, 4370-4375	4-9	34
216	Spiral point drill temperature and stress in high-throughput drilling of titanium. <i>International Journal of Machine Tools and Manufacture</i> , <b>2007</b> , 47, 2005-2017	9-4	34

215	Thrust force, torque, and tool wear in drilling the bulk metallic glass. <i>International Journal of Machine Tools and Manufacture</i> , <b>2005</b> , 45, 863-872	9-4	33
214	Prediction of bone grinding temperature in skull base neurosurgery. <i>CIRP Annals - Manufacturing Technology</i> , <b>2012</b> , 61, 307-310	4-9	32
213	Gap control for near-dry EDM milling with lead angle. <i>International Journal of Machine Tools and Manufacture</i> , <b>2011</b> , 51, 77-83	9-4	32
212	Surface Roughness and Material Removal Rate in Machining Using Microorganisms. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2007</b> , 129, 223-227	3-3	32
211	Form measurements of micro-holes. <i>Measurement Science and Technology</i> , <b>2007</b> , 18, 3603-3611	2	32
210	End Milling of Elastomers Fixture Design and Tool Effectiveness for Material Removal. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2004</b> , 126, 115-123	3-3	32
209	Biomanufacturing. <i>CIRP Annals - Manufacturing Technology</i> , <b>2013</b> , 62, 585-606	4-9	31
208	Modeling of the Plane Needle Cutting Edge Rake and Inclination Angles for Biopsy. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2010</b> , 132,	3-3	31
207	Thermal-Electric Finite Element Analysis and Experimental Validation of Bipolar Electrosurgical Cautery. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2008</b> , 130,	3-3	31
206	Thermocouple Fixation Method for Grinding Temperature Measurement. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2008</b> , 130,	3-3	31
205	Robust Machine Tool Thermal Error Modeling Through Thermal Mode Concept. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2008</b> , 130,	3-3	30
204	An experimental investigation of rotary diamond truing and dressing of vitreous bond wheels for ceramic grinding. <i>International Journal of Machine Tools and Manufacture</i> , <b>2000</b> , 40, 1755-1774	9-4	30
203	Numerical evaluation of sequential bone drilling strategies based on thermal damage. <i>Medical Engineering and Physics</i> , <b>2015</b> , 37, 855-61	2-4	28
202	Process Planning for the Fuse Deposition Modeling of Ankle-Foot-Orthoses. <i>Procedia CIRP</i> , <b>2016</b> , 42, 760-765	4-9	28
201	Mist cooling in neurosurgical bone grinding. <i>CIRP Annals - Manufacturing Technology</i> , <b>2013</b> , 62, 367-370	4-9	27
200	Design and Manufacture of Polyvinyl Chloride (PVC) Tissue Mimicking Material for Needle Insertion. <i>Procedia Manufacturing</i> , <b>2015</b> , 1, 866-878	1-5	27
199	Polyvinyl chloride as a multimodal tissue-mimicking material with tuned mechanical and medical imaging properties. <i>Medical Physics</i> , <b>2016</b> , 43, 5577	4-4	27
198	Machined surface temperature in hard turning. <i>International Journal of Machine Tools and Manufacture</i> , <b>2017</b> , 121, 10-21	9-4	26

197	Silicone-Based Tissue-Mimicking Phantom for Needle Insertion Simulation. <i>Journal of Medical Devices, Transactions of the ASME</i> , <b>2014</b> , 8,	1.3	26
196	An Inverse Heat Transfer Method for Determining Workpiece Temperature in Minimum Quantity Lubrication Deep Hole Drilling. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2012</b> , 134,	3.3	26
195	Sub-nanosecond monitoring of micro-hole electrical discharge machining pulses and modeling of discharge ringing. <i>International Journal of Machine Tools and Manufacture</i> , <b>2006</b> , 46, 1996-2008	9.4	26
194	Machining of biocompatible materials [Recent advances. <i>CIRP Annals - Manufacturing Technology</i> , <b>2019</b> , 68, 629-652	4.9	25
193	Development and validation of a pressure-type automated quantitative sensory testing system for point-of-care pain assessment. <i>Medical and Biological Engineering and Computing</i> , <b>2013</b> , 51, 633-44	3.1	25
192	Analytical Surface Roughness Parameters of a Theoretical Profile Consisting of Elliptical Arcs. <i>Machining Science and Technology</i> , <b>2003</b> , 7, 281-294	2	25
191	Neurosurgical Bone Grinding Temperature Monitoring. <i>Procedia CIRP</i> , <b>2013</b> , 5, 226-230	1.8	24
190	Fuzzy Logic Control of Microhole Electrical Discharge Machining. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2008</b> , 130,	3.3	24
189	Nanoindentation characterization of surface layers of electrical discharge machined WC-Co. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2003</b> , 344, 125-131	5.3	24
188	Heat accumulation during sequential cortical bone drilling. <i>Journal of Orthopaedic Research</i> , <b>2016</b> , 34, 463-70	3.8	23
187	Optimal needle design for minimal insertion force and bevel length. <i>Medical Engineering and Physics</i> , <b>2014</b> , 36, 1093-100	2.4	23
186	Electrosurgical vessel sealing tissue temperature: experimental measurement and finite element modeling. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2013</b> , 60, 453-60	5	22
185	Design and tuning of a fuzzy logic controller for micro-hole electrical discharge machining. <i>Journal of Manufacturing Processes</i> , <b>2008</b> , 10, 61-73	5	22
184	Temperature prediction in high speed bone grinding using motor PWM signal. <i>Medical Engineering and Physics</i> , <b>2013</b> , 35, 1545-9	2.4	21
183	Design, manufacture, and analysis of metal foam electrical resistance heater. <i>International Journal of Mechanical Sciences</i> , <b>2006</b> , 48, 1314-1322	5.5	21
182	Vitreous bond silicon carbide wheel for grinding of silicon nitride. <i>International Journal of Machine Tools and Manufacture</i> , <b>2006</b> , 46, 631-639	9.4	21
181	Wear mechanism of metal bond diamond wheels trued by wire electrical discharge machining. <i>Wear</i> , <b>2002</b> , 252, 644-653	3.5	21
180	Abrasive micro-blasting to improve surface integrity of electrical discharge machined WC-Co composite. <i>Journal of Materials Processing Technology</i> , <b>2005</b> , 166, 440-448	5.3	21

179	Monopolar electrosurgical thermal management for minimizing tissue damage. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2012</b> , 59, 167-73	5	20
178	Laser Interferometry Hologram Registration for Three-Dimensional Precision Measurements. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2006</b> , 128, 1006-1013	3.3	20
177	Effects of insertion speed and trocar stiffness on the accuracy of needle position for brachytherapy. <i>Medical Physics</i> , <b>2012</b> , 39, 1811-7	4.4	19
176	The Needle With Lancet Point: Geometry for Needle Tip Grinding and Tissue Insertion Force. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2013</b> , 135,	3.3	19
175	Chip Morphology and Forces in End Milling of Elastomers. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2004</b> , 126, 124-130	3.3	19
174	Comparison of cortical bone drilling induced heat production among common drilling tools. <i>Journal of Orthopaedic Trauma</i> , <b>2015</b> , 29, e188-93	3.1	18
173	Precision grid and hand motion for accurate needle insertion in brachytherapy. <i>Medical Physics</i> , <b>2011</b> , 38, 4749-59	4.4	18
172	Surface Finishing of Needles for High-performance Biopsy. <i>Procedia CIRP</i> , <b>2014</b> , 14, 48-53	1.8	17
171	Cloud-based Design and Additive Manufacturing of Custom Orthoses. <i>Procedia CIRP</i> , <b>2017</b> , 63, 156-160	1.8	17
170	Fine Surface Finish of a Hardened Stainless Steel Using a New Burnishing Tool. <i>Procedia Manufacturing</i> , <b>2017</b> , 10, 208-217	1.5	17
169	Intelligent machine agent architecture for adaptive control optimization of manufacturing processes. <i>Advanced Engineering Informatics</i> , <b>2011</b> , 25, 783-796	7.4	17
168	Voids and tensile properties in extrusion-based additive manufacturing of moisture-cured silicone elastomer. <i>Additive Manufacturing</i> , <b>2018</b> , 22, 606-617	6.1	17
167	Improvement of surface flatness in face milling based on 3-D holographic laser metrology. <i>International Journal of Machine Tools and Manufacture</i> , <b>2011</b> , 51, 483-490	9.4	16
166	Workpiece Thermal Distortion in Minimum Quantity Lubrication Deep Hole Drilling Finite Element Modeling and Experimental Validation. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2012</b> , 134,	3.3	16
165	Impedance of tissue-mimicking phantom material under compression. <i>Journal of Electrical Bioimpedance</i> , <b>2013</b> , 4, 2-12	1.5	16
164	High-Definition Metrology Enabled Surface Variation Control by Cutting Load Balancing <sup>1</sup> . <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2016</b> , 138,	3.3	16
163	Fixed abrasive machining of non-metallic materials. <i>CIRP Annals - Manufacturing Technology</i> , <b>2018</b> , 67, 767-790	4.9	15
162	Workpiece Temperature During Deep-Hole Drilling of Cast Iron Using High Air Pressure Minimum Quantity Lubrication. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2013</b> , 135,	3.3	15

161	Modeling cutting edge geometry for plane and curved needle tips. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , <b>2012</b> , 226, 861-869	2.4	15
160	Grinding Temperature Measurements in Magnesia-Partially-Stabilized Zirconia Using Infrared Spectrometry. <i>Journal of the American Ceramic Society</i> , <b>2003</b> , 86, 333-341	3.8	15
159	Tissue mimicking materials for imaging and therapy phantoms: a review. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65,	3.8	15
158	Increased susceptibility to microdamage in Brl/+ mouse model for osteogenesis imperfecta. <i>Bone</i> , <b>2012</b> , 50, 784-91	4.7	14
157	Notched K-wire for low thermal damage bone drilling. <i>Medical Engineering and Physics</i> , <b>2017</b> , 45, 25-33	2.4	13
156	Cost-Effective Grinding of Zirconia Using the Dense Vitreous Bond Silicon Carbide Wheel. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2003</b> , 125, 297-303	3.3	13
155	Silicone Foam Additive Manufacturing by Liquid Rope Coiling. <i>Procedia CIRP</i> , <b>2017</b> , 65, 196-201	1.8	12
154	Bipolar electrosurgical vessel-sealing device with compressive force monitoring. <i>Journal of Biomechanical Engineering</i> , <b>2014</b> , 136, 061001	2.1	12
153	Optimal Design of a High-Speed Pick-and-Place Cable-Driven Parallel Robot. <i>Mechanisms and Machine Science</i> , <b>2018</b> , 340-352	0.3	12
152	Construction of a comprehensive endovascular test bed for research and device development in mechanical thrombectomy in stroke. <i>Journal of Neurosurgery</i> , <b>2020</b> , 134, 1190-1197	3.2	12
151	Two-Finger Tightness: What Is It? Measuring Torque and Reproducibility in a Simulated Model. <i>Journal of Orthopaedic Trauma</i> , <b>2016</b> , 30, 273-7	3.1	12
150	3D Printed composite for simulating thermal and mechanical responses of the cortical bone in orthopaedic surgery. <i>Medical Engineering and Physics</i> , <b>2018</b> , 61, 61-68	2.4	12
149	Cutting of blood clots [Experiment and smooth particle Galerkin modelling. <i>CIRP Annals - Manufacturing Technology</i> , <b>2019</b> , 68, 97-100	4.9	11
148	Analysis of human emboli and thrombectomy forces in large-vessel occlusion stroke. <i>Journal of Neurosurgery</i> , <b>2020</b> , 134, 893-901	3.2	11
147	Needle deflection and tissue sampling length in needle biopsy. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2020</b> , 104, 103632	4.1	11
146	Experimental investigation of the abrasive crown dynamics in orbital atherectomy. <i>Medical Engineering and Physics</i> , <b>2016</b> , 38, 639-647	2.4	11
145	A pulsatile blood vessel system for a femoral arterial access clinical simulation model. <i>Medical Engineering and Physics</i> , <b>2013</b> , 35, 1518-24	2.4	11
144	Simulator and 2 tools: Validation of performance measures from a novel neurosurgery simulation model using the current Standards framework. <i>Surgery</i> , <b>2016</b> , 160, 571-9	3.6	10



143	Analysis of Machining and Machine Tools <b>2016</b> ,		10
142	Tool Path Planning for Near-Dry EDM Milling With Lead Angle on Curved Surfaces. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2011</b> , 133,	3.3	10
141	Inverse Heat Transfer Solution of the Heat Flux Due to Induction Heating. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2005</b> , 127, 555-563	3.3	10
140	Standardized Fabrication Method of Human-Derived Emboli with Histologic and Mechanical Quantification for Stroke Research. <i>Journal of Stroke and Cerebrovascular Diseases</i> , <b>2020</b> , 29, 105205	2.8	10
139	Contributions in medical needle technologies: Geometry, mechanics, design, and manufacturing. <i>Machining Science and Technology</i> , <b>2016</b> , 20, 1-43	2	10
138	Experiment and smooth particle hydrodynamics simulation of debris size in grinding of calcified plaque in atherectomy. <i>CIRP Annals - Manufacturing Technology</i> , <b>2017</b> , 66, 325-328	4.9	9
137	Computational Fluid Dynamics Modeling of the Burr Orbital Motion in Rotational Atherectomy with Particle Image Velocimetry Validation. <i>Annals of Biomedical Engineering</i> , <b>2018</b> , 46, 567-578	4.7	9
136	Biaxial Mooney-Rivlin Coefficient of Silicone Sheet by Additive Manufacturing. <i>Procedia CIRP</i> , <b>2017</b> , 65, 189-195	1.8	9
135	A novel technique for demonstrating the real-time subsurface tissue thermal profile of two energized surgical instruments. <i>Journal of Minimally Invasive Gynecology</i> , <b>2009</b> , 16, 599-603	2.2	9
134	Biomedical Manufacturing: A New Frontier of Manufacturing Research. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2008</b> , 130,	3.3	9
133	Using simulation for teaching femoral arterial access: A multicentric collaboration. <i>Catheterization and Cardiovascular Interventions</i> , <b>2016</b> , 87, 376-80	2.7	9
132	Grinding wheel motion, force, temperature, and material removal in rotational atherectomy of calcified plaque. <i>CIRP Annals - Manufacturing Technology</i> , <b>2016</b> , 65, 345-348	4.9	9
131	Tissue transformation mold design and stereolithography fabrication. <i>Rapid Prototyping Journal</i> , <b>2017</b> , 23, 162-168	3.8	8
130	In vivo vascular wall shear rate and circumferential strain of renal disease patients. <i>Ultrasound in Medicine and Biology</i> , <b>2013</b> , 39, 241-52	3.5	8
129	Quantification of ultrasound correlation-based flow velocity mapping and edge velocity gradient measurement. <i>Journal of Ultrasound in Medicine</i> , <b>2013</b> , 32, 1815-30	2.9	8
128	Effect of lead use on back and shoulder postural muscle activity in healthy young adults. <i>Human Factors</i> , <b>2011</b> , 53, 729-39	3.8	8
127	Reanalysis of Microgravity Heat Capacity Measurements Near the SF6 Liquid-Gas Critical Point. <i>International Journal of Thermophysics</i> , <b>2004</b> , 25, 1667-1675	2.1	8
126	Wear of the blade diamond tools in truing vitreous bond grinding wheels. <i>Wear</i> , <b>2001</b> , 250, 587-592	3.5	8

125	Measurement and Modeling of Tissue Thermal Conductivity With Variable Water Content and Compression. <i>Journal of Heat Transfer</i> , <b>2016</b> , 138,	1.8	8
124	Three-Dimensional Printing Multifunctional Engineered Cementitious Composites (ECC) for Structural Elements. <i>RILEM Bookseries</i> , <b>2019</b> , 115-128	0.5	8
123	Evaluation of Heat Generation in Unidirectional Versus Oscillatory Modes During K-Wire Insertion in Bone. <i>Journal of Orthopaedic Research</i> , <b>2019</b> , 37, 1903-1909	3.8	7
122	Positional accuracy and transmitter orientation of the 3D electromagnetic tracking system. <i>Measurement Science and Technology</i> , <b>2013</b> , 24, 105105	2	7
121	Surface Variation Reduction for Face Milling Based on High-Definition Metrology <b>2012</b> ,		7
120	Phase unwrapping for large depth-of-field 3D laser holographic interferometry measurement of laterally discontinuous surfaces. <i>Measurement Science and Technology</i> , <b>2006</b> , 17, 3110-3119	2	7
119	Wear of the blade diamond tools in truing vitreous bond grinding wheels. <i>Wear</i> , <b>2001</b> , 250, 593-603	3.5	7
118	Recent Advancements in Machining With Abrasives. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2020</b> , 142,	3.3	7
117	Hollow Notched K-Wires for Bone Drilling With Through-Tool Cooling. <i>Journal of Orthopaedic Research</i> , <b>2019</b> , 37, 2297-2306	3.8	6
116	Experimental Investigation of the Grinding Wheel Dynamics in Atherectomy. <i>Procedia Manufacturing</i> , <b>2015</b> , 1, 879-891	1.5	6
115	Cool Mist Irrigation Improves Heat Dissipation during Surgical Bone Drilling. <i>Journal of Neurological Surgery, Part B: Skull Base</i> , <b>2014</b> , 75, 243-6	1.5	6
114	Fixed Abrasive Diamond Wire Saw Slicing of Single Crystal SiC Wafers <b>2003</b> , 653		6
113	INDUCTION-HEATED TOOL MACHINING OF ELASTOMERS PART 2: CHIP MORPHOLOGY, CUTTING FORCES, AND MACHINED SURFACES. <i>Machining Science and Technology</i> , <b>2005</b> , 9, 567-588	2	6
112	Biomedical Manufacturing: A Review of the Emerging Research and Applications. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2020</b> , 142,	3.3	6
111	Mosquito proboscis-inspired needle insertion to reduce tissue deformation and organ displacement. <i>Scientific Reports</i> , <b>2020</b> , 10, 12248	4.9	6
110	Effects of geometry and material on the insertion of very small neural electrode. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2016</b> , 2016, 2784-2788	0.9	6
109	Continuous Inferior Vena Cava Diameter Tracking through an Iterative Kanade-Lucas-Tomasi-Based Algorithm. <i>Ultrasound in Medicine and Biology</i> , <b>2018</b> , 44, 2793-2801	3.5	6
108	Toward human-centric smart manufacturing: A human-cyber-physical systems (HCPS) perspective. <i>Journal of Manufacturing Systems</i> , <b>2022</b> , 63, 471-490	9.1	6

107	Dry and minimum quantity lubrication high-throughput drilling of compacted graphite iron. <i>Machining Science and Technology</i> , <b>2018</b> , 22, 652-670	2	5
106	An endoscopic continuum testbed for finalizing system characteristics of a surgical robot for NOTES procedures <b>2013</b> ,		5
105	Optical Measurement of Tissue Deformation in Needle Insertion. <i>Procedia CIRP</i> , <b>2017</b> , 65, 175-179	1.8	5
104	Design of Bioimpedance Spectroscopy Instrument With Compensation Techniques for Soft Tissue Characterization. <i>Journal of Medical Devices, Transactions of the ASME</i> , <b>2015</b> , 9, 0210011-210018	1.3	5
103	Bone geometry on the contact stress in the shoulder for evaluation of pressure ulcers: finite element modeling and experimental validation. <i>Medical Engineering and Physics</i> , <b>2015</b> , 37, 187-94	2.4	5
102	Grinding the sharp tip in thin NiTi and stainless steel wires. <i>International Journal of Machine Tools and Manufacture</i> , <b>2012</b> , 62, 53-60	9.4	5
101	An apparatus to quantify anteroposterior and mediolateral shear reduction in shoe insoles. <i>Journal of Diabetes Science and Technology</i> , <b>2013</b> , 7, 410-9	4.1	5
100	Cutting Force of Hollow Needle Insertion in Soft Tissue <b>2013</b> ,		5
99	Quantitative evaluation of powder spray effects on stereovision measurements. <i>Measurement Science and Technology</i> , <b>2008</b> , 19, 025502	2	5
98	Computed tomography evaluation of the porosity and fiber orientation in a short carbon fiber material extrusion filament and part. <i>Additive Manufacturing</i> , <b>2020</b> , 34, 101189	6.1	5
97	Video Enriched Pedagogy in Manufacturing Processes. <i>Procedia Manufacturing</i> , <b>2016</b> , 5, 1154-1167	1.5	5
96	Biaxial test and hyperelastic material models of silicone elastomer fabricated by extrusion-based additive manufacturing for wearable biomedical devices. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2020</b> , 107, 103733	4.1	5
95	An experimental study and finite element modeling of head and neck cooling for brain hypothermia. <i>Journal of Thermal Biology</i> , <b>2018</b> , 71, 99-111	2.9	5
94	Study of insertion force and deformation for suturing with precurved NiTi guidewire. <i>Journal of Biomechanical Engineering</i> , <b>2015</b> , 137, 041004	2.1	4
93	Influence of non-invasive blood pressure measurement intervals on the occurrence of intra-operative hypotension. <i>Journal of Clinical Monitoring and Computing</i> , <b>2018</b> , 32, 699-705	2	4
92	An Open-Source Ultrasound Software for Diagnosis of Fistula Maturation. <i>ASAIO Journal</i> , <b>2018</b> , 64, 70-76.6		4
91	Measurement of the Friction Force Inside the Needle in Biopsy. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2016</b> , 138,	3.3	4
90	Measurement and Modeling of Forces in Extrusion-Based Additive Manufacturing of Flexible Silicone Elastomer With Thin Wall Structures. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2018</b> , 140,	3.3	4

89	A pilot study to measure vascular compliance changes during fistula maturation using open-source software. <i>Journal of Vascular Access</i> , <b>2019</b> , 20, 41-45	1.8	4
88	Thermoelectrical modeling of bipolar coagulation on posterior spinal artery in a porcine spinal surgery model. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2014</b> , 61, 182-8	5	4
87	Effect of Localized Metal Matrix Composite Formation on Spot Friction Welding Joint Strength. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , <b>2011</b> , 133,	1.8	4
86	Friction Drilling: A Chipless Hole-Making Process <b>2006</b> , 911		4
85	Kinematics and Wear of Tool Blades for Scrap Tire Shredding. <i>Machining Science and Technology</i> , <b>2004</b> , 8, 193-210	2	4
84	INDUCTION-HEATED TOOL MACHINING OF ELASTOMERS PART 1: FINITE DIFFERENCE THERMAL MODELING AND EXPERIMENTAL VALIDATION. <i>Machining Science and Technology</i> , <b>2005</b> , 9, 547-565	2	4
83	Comparison of thermal coagulation profiles for bipolar forceps with different cooling mechanisms in a porcine model of spinal surgery. <i>Surgical Neurology International</i> , <b>2013</b> , 4, 113	1	4
82	Failure modes and effects analysis of mechanical thrombectomy for stroke discovered in human brains. <i>Journal of Neurosurgery</i> , <b>2021</b> , 1-8	3.2	4
81	A human brain test bed for research in large vessel occlusion stroke. <i>Journal of Neurosurgery</i> , <b>2021</b> , 1-9	3.2	4
80	Multigrain Smoothed Particle Hydrodynamics and Hertzian Contact Modeling of the Grinding Force in Atherectomy. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2019</b> , 141,	3.3	3
79	Effects of needle inner surface topography on friction and biopsy length. <i>International Journal of Mechanical Sciences</i> , <b>2016</b> , 119, 412-418	5.5	3
78	Catheter thermal energy generation and temperature in rotational atherectomy. <i>Medical Engineering and Physics</i> , <b>2019</b> , 70, 29-38	2.4	3
77	Nano-CT characterization of the microstructure in the nonwoven polishing wheel. <i>CIRP Annals - Manufacturing Technology</i> , <b>2014</b> , 63, 541-544	4.9	3
76	Monopolar Electrosurgical Thermal Management System to Reduce Lateral Thermal Damage During Surgery. <i>Journal of Medical Devices, Transactions of the ASME</i> , <b>2010</b> , 4,	1.3	3
75	Improvement of Surface Flatness in Face Milling by Varying the Tool Cutting Depth and Feed Rate <b>2009</b> ,		3
74	Thermal Modeling of Workpiece Temperature in MQL Deep-Hole Drilling <b>2010</b> ,		3
73	Fuzzy Logic Control System for Micro-Hole Electrical Discharge Machining <b>2007</b> , 793		3
72	Goniometric characteristics of optical fibres for temperature measurement in diesel engine exhaust filters. <i>Measurement Science and Technology</i> , <b>2003</b> , 14, 563-572	2	3

71	Synthesis of a single-loop, overconstrained six revolute joint spatial mechanism for two-position cylindrical rigid body guidance. <i>Mechanism and Machine Theory</i> , <b>2002</b> , 37, 61-73	4	3
70	Design of single-operator-multi-robot teleoperation systems with random communication delay		3
69	Development of an Endoscopic Continuum Robot to Enable Transgastric Surgical Obesity Treatment. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 589-600	0.9	3
68	Finite element composite simplification modeling and design of the material extrusion wave infill for thin-walled structures. <i>International Journal of Mechanical Sciences</i> , <b>2021</b> , 196, 106276	5.5	3
67	Dynamic Limb Bioimpedance and Inferior Vena Cava Ultrasound in Patients Undergoing Hemodialysis. <i>ASAIO Journal</i> , <b>2016</b> , 62, 463-9	3.6	3
66	An Experimental Method of Needle Deflection and Prostate Movement Using the Anatomically Accurate Prostate Simulator and the Electromagnetic Tracking System <b>2017</b> ,		2
65	Advanced Five-Plane Lancet Needle Design, Grinding, and Tissue Insertion <b>2014</b> ,		2
64	The haptic position measurement of soft or compliant objects using the magnetic tracking system. <i>Manufacturing Letters</i> , <b>2013</b> , 1, 17-20	4.5	2
63	Minimum Quantity Lubrication for Sustainable Machining <b>2017</b> , 477-485		2
62	High Air Pressure in MQL Deep Hole Drilling Workpiece Temperature. <i>Advanced Materials Research</i> , <b>2011</b> , 189-193, 1732-1736	0.5	2
61	Three-Dimensional Optical Measurements of Porous Foams. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2006</b> , 128, 951-959	3.3	2
60	Enabling Computers for Factory Planning and More: In Memory of Dr. Moshe M. Barash, A Giant in Manufacturing Research. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2006</b> , 128, 1033-1033	3.3	2
59	Custom Skull Cap With Precision Guides for Deep Insertion of Cellular-Scale Microwire Into Rat Brain <b>2019</b> ,		2
58	Manufacturing and Society [A Freshman Introduction to Engineering Course with Manufacturing and Social Science Partnership. <i>Procedia Manufacturing</i> , <b>2020</b> , 48, 1126-1135	1.5	2
57	Multi-Bevel Needle Design Enabling Accurate Insertion in Biopsy for Cancer Diagnosis. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2021</b> , 68, 1477-1486	5	2
56	Active Spinal Orthosis to Reduce Lumbar Postural Muscle Activity in Flexed Postures. <i>Journal of Prosthetics and Orthotics</i> , <b>2016</b> , 28, 109-113	0.7	2
55	High-throughput Dry and Minimum Quantity Lubrication Drilling of Compacted Graphite Iron. <i>Procedia CIRP</i> , <b>2016</b> , 46, 87-90	1.8	2
54	Metal and Bone Drilling - The Thermal Aspects <b>2019</b> ,		1

53	Enhancement of Kirschner Wire for Bone Drilling <b>2014</b> ,		1
52	Experimental Study and Finite Element Modeling of Workpiece Temperature in Finish Cylinder Boring. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2017</b> , 139,	3-3	1
51	Spot Friction Weld Strength Improvement Through In-Process Metal Matrix Formation <b>2008</b> ,		1
50	Vessel Sealing Using the Bipolar Electrosurgical Method <b>2007</b> , 673		1
49	Thermal-Electric Finite Element Analysis of Electrosurgical Cautery Process <b>2007</b> , 665		1
48	A New Regulating Wheel Truing Method for Through-Feed Centerless Grinding. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2001</b> , 123, 319-324	3-3	1
47	SYSTEMS APPROACH FOR THE CERAMIC THRU-FEED CENTERLESS GRINDING. <i>Machining Science and Technology</i> , <b>1999</b> , 3, 201-219	2	1
46	Arterial Collapse during Thrombectomy for Stroke: Clinical Evidence and Experimental Findings in Human Brains and In Vivo Models.. <i>American Journal of Neuroradiology</i> , <b>2022</b> ,	4-4	1
45	Design of an endoscopic stitching device for surgical obesity treatment using a N.O.T.E.S approach		1
44	Analytical Characterization and Experimental Validation of the Material Extrusion Wave Infill for Thin-Walled Structures. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2019</b> , 141,	3-3	1
43	Laser Sharpening of Carbon Fiber Microelectrode Arrays for Brain Recording. <i>Journal of Micro and Nano-Manufacturing</i> , <b>2020</b> , 8,	1-3	1
42	Advances in machining of hard tissues [From material removal mechanisms to tooling solutions. <i>International Journal of Machine Tools and Manufacture</i> , <b>2022</b> , 172, 103838	9-4	1
41	Open-source Toolkit: Benchtop Carbon Fiber Microelectrode Array for Nerve Recording. <i>Journal of Visualized Experiments</i> , <b>2021</b> ,	1-6	1
40	Sono-angiography for dialysis vascular access based on the freehand 2D ultrasound scanning. <i>Journal of Vascular Access</i> , <b>2021</b> , 11297298211015066	1-8	1
39	Experimental Investigation of the Grinding Force in Rotational Atherectomy. <i>Procedia Manufacturing</i> , <b>2016</b> , 5, 838-848	1-5	1
38	Evaluation of Smartwatch Inertia Measurement Unit (IMU) for Studying Human Movements. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 1154-1159	0-4	1
37	Thrombus Histology as It Relates to Mechanical Thrombectomy: A Meta-Analysis and Systematic Review. <i>Neurosurgery</i> , <b>2021</b> , 89, 1122-1131	3-2	1
36	Bore Cylindricity in Finish Cylinder Boring. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2018</b> , 140,	3-3	1

35	Ultrasound Measurement of Vascular Distensibility Based on Edge Detection and Speckle Tracking Using Ultrasound DICOM Data. <i>ASAIO Journal</i> , <b>2021</b> ,	3.6	1
34	A miniature nickel-diamond electroplated wheel for grinding of the arterial calcified plaque. <i>Procedia Manufacturing</i> , <b>2019</b> , 34, 222-227	1.5	0
33	Gastroesophageal resuscitative occlusion of the aorta: Physiologic tolerance in a swine model of hemorrhagic shock. <i>Journal of Trauma and Acute Care Surgery</i> , <b>2020</b> , 89, 1114-1123	3.3	0
32	Ultrasound speckle tracking to detect vascular distensibility changes from angioplasty and branch ligation in a radio-cephalic fistula: Use of novel open source software. <i>Journal of Vascular Access</i> , <b>2020</b> , 1129729820959910	1.8	0
31	Novel preclinical method for evaluating the efficacy of a percutaneous treatment in human ex vivo calcified plaque. <i>Medical and Biological Engineering and Computing</i> , <b>2021</b> , 59, 799-811	3.1	0
30	Automated thresholding method for the computed tomography inspection of the internal composition of parts fabricated using additive manufacturing. <i>Additive Manufacturing</i> , <b>2020</b> , 33, 101185	6.1	0
29	Special Issue of Journal of Manufacturing Processes on Advancing Manufacturing Processes Research at NAMRC 46. <i>Procedia Manufacturing</i> , <b>2018</b> , 26, 8-9	1.5	
28	Special Issue of Journal of Manufacturing Systems on Advancing Manufacturing Systems Research at NAMRC 46. <i>Procedia Manufacturing</i> , <b>2018</b> , 26, 6-7	1.5	
27	Contact Stress Distribution Under a Lower Thorax Partial Orthosis Worn by Healthy Young Men. <i>Journal of Prosthetics and Orthotics</i> , <b>2013</b> , 25, 48-57	0.7	
26	Tissue Cutting Mechanics and Applications for Needle Core Biopsy and Guidance. <i>Applied Mechanics and Materials</i> , <b>2013</b> , 289, 13-22	0.3	
25	Design and Simulation of the Hydraulic System for the Disc Cutter of the Rock Hob Test-Bed. <i>Key Engineering Materials</i> , <b>2012</b> , 499, 51-55	0.4	
24	Application of Nanofluids in Minimum Quantity Lubrication Grinding <b>2007</b> , 725		
23	Biomedical Manufacturing: A New Frontier of Manufacturing Research <b>2006</b> , 919		
22	Investigation of the Spark Cycle Effect on Material Removal Rate in Wire Electrical Discharge Machining <b>2003</b> , 49		
21	Finite Element Modeling of 3D Turning of Titanium <b>2004</b> , 825		
20	Investigation of Wire Electrical Discharge Machining of Thin Cross-Sections and Compliant Mechanisms <b>2004</b> , 165		
19	Model-Based Approach for Predicting Thermal Damage in Bone Drilling <b>2019</b> , 133-147		
18	Experimental Analysis of Titanium Drilling <b>2019</b> , 21-50		

- 17 Thermal Analysis of Bone Drilling in Orthopaedic Surgery **2019**, 117-131
- 16 Modeling of Drill Temperature and Thermal Stress in Drilling of Titanium Alloys **2019**, 51-75
- 15 Advancement of Surgical Bone Drills: A Case Study of Notched K-Wires **2019**, 149-162
- 14 Experimental Analysis of Cast Iron Drilling with Dry and MQL Conditions **2019**, 77-93
- 13 Biomedical Manufacturing **2019**, 511-540
- 12 Development of open-source software for free-hand 3D vascular ultrasound: Dialysis fistula application. *Journal of Vascular Access*, **2021**, 11297298211055348 1.8
- 11 MO-G-BRA-03: The Study of Needle Insertion Force and Its Effect on Deflection in Brachytherapy. *Medical Physics*, **2011**, 38, 3733-3733 4.4
- 10 Self-Supported Nasopharyngeal Airway Device for Treatment of Hypotonic Upper Airway Obstruction. *Procedia CIRP*, **2020**, 89, 74-78 1.8
- 9 A planar piecewise continuous lumped muscle parameter model for prediction of walking gait. *Gait and Posture*, **2021**, 88, 146-154 2.6
- 8 The Effects of Passive Ankle-Foot Orthotic Devices [Stiffness] Application and Limitation of 2D Inverted Pendulum Gait Model. *Advances in Intelligent Systems and Computing*, **2019**, 1143-1153 0.4
- 7 Teaching Manufacturing Processes from an Innovation Perspective. *Procedia Manufacturing*, **2021**, 53, 814-824 1.5
- 6 Compensation Strategies Among Drop Foot Patients and the Effect of Ankle-Foot Orthosis on Gait Symmetry. *Lecture Notes in Networks and Systems*, **2021**, 309-313 0.5
- 5 Teaching Manufacturing Processes Using a Flipped Classroom Model. *Procedia Manufacturing*, **2021**, 53, 773-781 1.5
- 4 Angioplasty Induced Changes in Dialysis Vascular Access Compliance. *Annals of Biomedical Engineering*, **2021**, 49, 2635-2645 4.7
- 3 Flexible High-Resolution Force and Dimpling Measurement System for Pia and Dura Penetration During In Vivo Microelectrode Insertion Into Rat Brain. *IEEE Transactions on Biomedical Engineering*, **2021**, 68, 2602-2612 5
- 2 A personalized approach to non-invasive ventilation masks in amyotrophic lateral sclerosis using facial scanning and 3D-printing. *Annals of 3D Printed Medicine*, **2021**, 3, 100027
- 1 Soft Shear and Compressive Contact Stresses Sensor with Conductive Microfluidic Channels Fabricated by Additive Manufacturing. *IEEE Sensors Journal*, **2022**, 1-1 4