

# Albert J Shih

## 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.

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	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
267	Advances in machining of hard tissues IFrom material removal mechanisms to tooling solutions. <i>International Journal of Machine Tools and Manufacture</i> , <b>2022</b> , 172, 103838	9.4	1
266	Soft Shear and Compressive Contact Stresses Sensor with Conductive Microfluidic Channels Fabricated by Additive Manufacturing. <i>IEEE Sensors Journal</i> , <b>2022</b> , 1-1	4	
265	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
264	Open-source Toolkit: Benchtop Carbon Fiber Microelectrode Array for Nerve Recording. <i>Journal of Visualized Experiments</i> , <b>2021</b> ,	1.6	1
263	Development of open-source software for free-hand 3D vascular ultrasound: Dialysis fistula application. <i>Journal of Vascular Access</i> , <b>2021</b> , 11297298211055348	1.8	
262	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
261	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
260	Multi-Level 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
259	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
258	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
257	A planar piecewise continuous lumped muscle parameter model for prediction of walking gait. <i>Gait and Posture</i> , <b>2021</b> , 88, 146-154	2.6	
256	Teaching Manufacturing Processes from an Innovation Perspective. <i>Procedia Manufacturing</i> , <b>2021</b> , 53, 814-824	1.5	
255	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
254	Compensation Strategies Among Drop Foot Patients and the Effect of Ankle-Foot Orthosis on Gait Symmetry. <i>Lecture Notes in Networks and Systems</i> , <b>2021</b> , 309-313	0.5	
253	Teaching Manufacturing Processes Using a Flipped Classroom Model. <i>Procedia Manufacturing</i> , <b>2021</b> , 53, 773-781	1.5	
252	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

251	Angioplasty Induced Changes in Dialysis Vascular Access Compliance. <i>Annals of Biomedical Engineering</i> , <b>2021</b> , 49, 2635-2645		4.7
250	Flexible High-Resolution Force and Dimpling Measurement System for Pia and Dura Penetration During In Vivo Microelectrode Insertion Into Rat Brain. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2021</b> , 68, 2602-2612		5
249	A personalized approach to non-invasive ventilation masks in amyotrophic lateral sclerosis using facial scanning and 3D-printing. <i>Annals of 3D Printed Medicine</i> , <b>2021</b> , 3, 100027		
248	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
247	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
246	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
245	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
244	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
243	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
242	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
241	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
240	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
239	Tissue mimicking materials for imaging and therapy phantoms: a review. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65,	3.8	15
238	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
237	Manufacturing and Society I 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
236	Self-Supported Nasopharyngeal Airway Device for Treatment of Hypotonic Upper Airway Obstruction. <i>Procedia CIRP</i> , <b>2020</b> , 89, 74-78	1.8	
235	Mosquito proboscis-inspired needle insertion to reduce tissue deformation and organ displacement. <i>Scientific Reports</i> , <b>2020</b> , 10, 12248	4.9	6
234	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

233	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
232	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
231	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
230	Metal and Bone Drilling - The Thermal Aspects <b>2019</b> ,		1
229	Machining of biocompatible materials [Recent advances. <i>CIRP Annals - Manufacturing Technology</i> , <b>2019</b> , 68, 629-652	4.9	25
228	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
227	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
226	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
225	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
224	Catheter thermal energy generation and temperature in rotational atherectomy. <i>Medical Engineering and Physics</i> , <b>2019</b> , 70, 29-38	2.4	3
223	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
222	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
221	Model-Based Approach for Predicting Thermal Damage in Bone Drilling <b>2019</b> , 133-147		
220	Experimental Analysis of Titanium Drilling <b>2019</b> , 21-50		
219	Thermal Analysis of Bone Drilling in Orthopaedic Surgery <b>2019</b> , 117-131		
218	Modeling of Drill Temperature and Thermal Stress in Drilling of Titanium Alloys <b>2019</b> , 51-75		
217	Advancement of Surgical Bone Drills: A Case Study of Notched K-Wires <b>2019</b> , 149-162		
216	Experimental Analysis of Cast Iron Drilling with Dry and MQL Conditions <b>2019</b> , 77-93		

215	Custom Skull Cap With Precision Guides for Deep Insertion of Cellular-Scale Microwire Into Rat Brain <b>2019</b> ,			2
214	Biomedical Manufacturing <b>2019</b> , 511-540			
213	Three-Dimensional Printing Multifunctional Engineered Cementitious Composites (ECC) for Structural Elements. <i>RILEM Bookseries</i> , <b>2019</b> , 115-128	0.5		8
212	The Effects of Passive Ankle-Foot Orthotic Devices Stiffness Application and Limitation of 2D Inverted Pendulum Gait Model. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 1143-1153	0.4		
211	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
210	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
209	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
208	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
207	An Open-Source Ultrasound Software for Diagnosis of Fistula Maturation. <i>ASAIO Journal</i> , <b>2018</b> , 64, 70-76.6			4
206	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
205	Fixed abrasive machining of non-metallic materials. <i>CIRP Annals - Manufacturing Technology</i> , <b>2018</b> , 67, 767-790	4.9		15
204	Deep hole drilling. <i>CIRP Annals - Manufacturing Technology</i> , <b>2018</b> , 67, 673-694	4.9		68
203	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		
202	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		
201	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
200	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
199	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
198	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

197	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
196	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
195	Tissue transformation mold design and stereolithography fabrication. <i>Rapid Prototyping Journal</i> , <b>2017</b> , 23, 162-168	3.8	8
194	Notched K-wire for low thermal damage bone drilling. <i>Medical Engineering and Physics</i> , <b>2017</b> , 45, 25-33	2.4	13
193	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
192	Machined surface temperature in hard turning. <i>International Journal of Machine Tools and Manufacture</i> , <b>2017</b> , 121, 10-21	9.4	26
191	An Experimental Method of Needle Deflection and Prostate Movement Using the Anatomically Accurate Prostate Simulator and the Electromagnetic Tracking System <b>2017</b> ,		2
190	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
189	Silicone Foam Additive Manufacturing by Liquid Rope Coiling. <i>Procedia CIRP</i> , <b>2017</b> , 65, 196-201	1.8	12
188	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
187	Cloud-based Design and Additive Manufacturing of Custom Orthoses. <i>Procedia CIRP</i> , <b>2017</b> , 63, 156-160	1.8	17
186	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
185	Biaxial Mooney-Rivlin Coefficient of Silicone Sheet by Additive Manufacturing. <i>Procedia CIRP</i> , <b>2017</b> , 65, 189-195	1.8	9
184	Optical Measurement of Tissue Deformation in Needle Insertion. <i>Procedia CIRP</i> , <b>2017</b> , 65, 175-179	1.8	5
183	Minimum Quantity Lubrication for Sustainable Machining <b>2017</b> , 477-485		2
182	A physical simulator for endoscopic endonasal drilling techniques: technical note. <i>Journal of Neurosurgery</i> , <b>2016</b> , 124, 811-6	3.2	40
181	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
180	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

179	Heat accumulation during sequential cortical bone drilling. <i>Journal of Orthopaedic Research</i> , <b>2016</b> , 34, 463-70	3.8	23
178	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
177	Process Planning for the Fuse Deposition Modeling of Ankle-Foot-Orthoses. <i>Procedia CIRP</i> , <b>2016</b> , 42, 760-785	2.8	28
176	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
175	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
174	Analysis of Machining and Machine Tools <b>2016</b> ,		10
173	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
172	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
171	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
170	Additive manufacturing of custom orthoses and prostheses—A review. <i>Additive Manufacturing</i> , <b>2016</b> , 12, 77-89	6.1	120
169	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
168	Experimental Investigation of the Grinding Force in Rotational Atherectomy. <i>Procedia Manufacturing</i> , <b>2016</b> , 5, 838-848	1.5	1
167	High-Definition Metrology Enabled Surface Variation Control by Cutting Load Balancing1. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2016</b> , 138,	3.3	16
166	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
165	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
164	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
163	Video Enriched Pedagogy in Manufacturing Processes. <i>Procedia Manufacturing</i> , <b>2016</b> , 5, 1154-1167	1.5	5
162	Contributions in medical needle technologies—Geometry, mechanics, design, and manufacturing. <i>Machining Science and Technology</i> , <b>2016</b> , 20, 1-43	2	10



161	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
160	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
159	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
158	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
157	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
156	Experimental Investigation of the Grinding Wheel Dynamics in Atherectomy. <i>Procedia Manufacturing</i> , <b>2015</b> , 1, 879-891	1.5	6
155	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
154	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
153	Additive Manufacturing of Custom Orthoses and Prostheses A Review. <i>Procedia CIRP</i> , <b>2015</b> , 36, 199-204	1.8	75
152	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
151	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
150	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
149	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
148	Surface Finishing of Needles for High-performance Biopsy. <i>Procedia CIRP</i> , <b>2014</b> , 14, 48-53	1.8	17
147	Minimum Quantity Lubrication (MQL) in Automotive Powertrain Machining. <i>Procedia CIRP</i> , <b>2014</b> , 14, 523-528	1.8	78
146	Advanced Five-Plane Lancet Needle Design, Grinding, and Tissue Insertion <b>2014</b> ,		2
145	Enhancement of Kirschner Wire for Bone Drilling <b>2014</b> ,		1
144	Bipolar electrosurgical vessel-sealing device with compressive force monitoring. <i>Journal of Biomechanical Engineering</i> , <b>2014</b> , 136, 061001	2.1	12



143	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
142	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
141	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
140	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
139	Biomanufacturing. <i>CIRP Annals - Manufacturing Technology</i> , <b>2013</b> , 62, 585-606	4.9	31
138	An endoscopic continuum testbed for finalizing system characteristics of a surgical robot for NOTES procedures <b>2013</b> ,		5
137	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
136	Mist cooling in neurosurgical bone grinding. <i>CIRP Annals - Manufacturing Technology</i> , <b>2013</b> , 62, 367-370	4.9	27
135	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
134	Positional accuracy and transmitter orientation of the 3D electromagnetic tracking system. <i>Measurement Science and Technology</i> , <b>2013</b> , 24, 105105	2	7
133	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
132	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
131	Neurosurgical Bone Grinding Temperature Monitoring. <i>Procedia CIRP</i> , <b>2013</b> , 5, 226-230	1.8	24
130	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
129	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
128	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
127	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
126	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	

125	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
124	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
123	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	
122	Cutting Force of Hollow Needle Insertion in Soft Tissue <b>2013</b> ,		5
121	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
120	Impedance of tissue-mimicking phantom material under compression. <i>Journal of Electrical Bioimpedance</i> , <b>2013</b> , 4, 2-12	1.5	16
119	Monopolar electrosurgical thermal management for minimizing tissue damage. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2012</b> , 59, 167-73	5	20
118	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
117	Increased susceptibility to microdamage in Brl/+ mouse model for osteogenesis imperfecta. <i>Bone</i> , <b>2012</b> , 50, 784-91	4.7	14
116	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
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2	Design of single-operator-multi-robot teleoperation systems with random communication delay		3
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