

Amir Manbachi

List of Publications by Citations

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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.

39
papers

1,722
citations

15
h-index

41
g-index

55
ext. papers

2,036
ext. citations

4.5
avg, IF

4.49
L-index

#	Paper	IF	Citations
39	Nanotechnology in Textiles. <i>ACS Nano</i> , 2016 , 10, 3042-68	16.7	390
38	Microfabricated biomaterials for engineering 3D tissues. <i>Advanced Materials</i> , 2012 , 24, 1782-804	24	310
37	Microfluidics-Enabled Multimaterial Maskless Stereolithographic Bioprinting. <i>Advanced Materials</i> , 2018 , 30, e1800242	24	190
36	Bioprinted thrombosis-on-a-chip. <i>Lab on A Chip</i> , 2016 , 16, 4097-4105	7.2	146
35	Development and Application of Piezoelectric Materials for Ultrasound Generation and Detection. <i>Ultrasound</i> , 2011 , 19, 187-196	1.3	113
34	Surface acoustic waves induced micropatterning of cells in gelatin methacryloyl (GelMA) hydrogels. <i>Biofabrication</i> , 2017 , 9, 015020	10.5	97
33	Cardiovascular Organ-on-a-Chip Platforms for Drug Discovery and Development. <i>Applied in Vitro Toxicology</i> , 2016 , 2, 82-96	1.3	95
32	Microcirculation within grooved substrates regulates cell positioning and cell docking inside microfluidic channels. <i>Lab on A Chip</i> , 2008 , 8, 747-54	7.2	65
31	Guided pedicle screw insertion: techniques and training. <i>Spine Journal</i> , 2014 , 14, 165-79	4	64
30	High-throughput screening of cell responses to biomaterials. <i>European Journal of Pharmaceutical Sciences</i> , 2008 , 35, 151-60	5.1	59
29	On the shape of the common carotid artery with implications for blood velocity profiles. <i>Physiological Measurement</i> , 2011 , 32, 1885-97	2.9	29
28	A computational and experimental study inside microfluidic systems: the role of shear stress and flow recirculation in cell docking. <i>Biomedical Microdevices</i> , 2010 , 12, 619-26	3.7	28
27	Slow and fast ultrasonic wave detection improvement in human trabecular bones using Golay code modulation. <i>Journal of the Acoustical Society of America</i> , 2012 , 132, EL222-8	2.2	21
26	On estimating the directionality distribution in pedicle trabecular bone from micro-CT images. <i>Physiological Measurement</i> , 2014 , 35, 2415-28	2.9	17
25	Sonolucent Cranial Implants: Cadaveric Study and Clinical Findings Supporting Diagnostic and Therapeutic Transcranioplasty Ultrasound. <i>Journal of Craniofacial Surgery</i> , 2019 , 30, 1456-1461	1.2	17
24	Transcranioplasty Ultrasound Through a Sonolucent Cranial Implant Made of Polymethyl Methacrylate: Phantom Study Comparing Ultrasound, Computed Tomography, and Magnetic Resonance Imaging. <i>Journal of Craniofacial Surgery</i> , 2019 , 30, e626-e629	1.2	14
23	Virtual fluoroscopy for intraoperative C-arm positioning and radiation dose reduction. <i>Journal of Medical Imaging</i> , 2018 , 5, 015005	2.6	10

22	Three-dimensional assessment of robot-assisted pedicle screw placement accuracy and instrumentation reliability based on a preplanned trajectory. <i>Journal of Neurosurgery: Spine</i> , 2020 , 1-10	2.8	10
21	Starting a Medical Technology Venture as a Young Academic Innovator or Student Entrepreneur. <i>Annals of Biomedical Engineering</i> , 2018 , 46, 1-13	4.7	8
20	A gradient-generating microfluidic device for cell biology. <i>Journal of Visualized Experiments</i> , 2007 , 271	1.6	8
19	Minimally invasive therapeutic ultrasound: Ultrasound-guided ultrasound ablation in neuro-oncology. <i>Ultrasonics</i> , 2020 , 108, 106210	3.5	6
18	Design and validation of an open-source library of dynamic reference frames for research and education in optical tracking. <i>Journal of Medical Imaging</i> , 2018 , 5, 021215	2.6	6
17	Bioprinting: Microfluidics-Enabled Multimaterial Maskless Stereolithographic Bioprinting (Adv. Mater. 27/2018). <i>Advanced Materials</i> , 2018 , 30, 1870201	24	4
16	The effect of renin-angiotensin system blockers on spinal cord dysfunction and imaging features of spinal cord compression in patients with symptomatic cervical spondylosis. <i>Spine Journal</i> , 2020 , 20, 519-529	4	3
15	Ultrasound in Traumatic Spinal Cord Injury: A Wide-Open Field. <i>Neurosurgery</i> , 2021 , 89, 372-382	3.2	3
14	12. Angiotensin-II type-1 receptor blockade decreased T2 signal intensity in spinal cord compression in symptomatic cervical spondylotic myelopathy. <i>Spine Journal</i> , 2019 , 19, S6	4	2
13	Design and fabrication of a low-frequency (1-3 MHz) ultrasound transducer for accurate placement of screw implants in the spine 2014 ,		2
12	Social Non-profit Bioentrepreneurship: Current Status and Future Impact on Global Health. <i>Frontiers in Public Health</i> , 2021 , 9, 541191	6	2
11	A microfluidic device with groove patterns for studying cellular behavior. <i>Journal of Visualized Experiments</i> , 2007 , 270	1.6	1
10	Minimally invasive intraventricular ultrasound: design and instrumentation towards a miniaturized ultrasound-guided focused ultrasound probe 2019 ,		1
9	Towards Ultrasound-guided Spinal Fusion Surgery. <i>Springer Theses</i> , 2016 ,	0.1	1
8	Epidural Oscillating Cardiac-Gated Intracranial Implant Modulates Cerebral Blood Flow. <i>Neurosurgery</i> , 2020 , 87, 1299-1310	3.2	0
7	Clinical Translation of the LevelCheck Decision Support Algorithm for Target Localization in Spine Surgery. <i>Annals of Biomedical Engineering</i> , 2018 , 46, 1548-1557	4.7	0
6	Curricular Advancement of Biomedical Engineering Undergraduate Design Projects Beyond 1Year: A Pilot Study. <i>Annals of Biomedical Engineering</i> , 2020 , 48, 1137-1146	4.7	0
5	Summary of Contributions, Limitations, and Future Directions. <i>Springer Theses</i> , 2016 , 85-91	0.1	

4	Single Element Transducers. <i>Springer Theses</i> , 2016 , 37-55	0.1
3	Organization of Pedicle Trabeculae. <i>Springer Theses</i> , 2016 , 35-36	0.1
2	90449 Can Ultrasound detect changes to spinal cord blood flow before and after injury?. <i>Journal of Clinical and Translational Science</i> , 2021 , 5, 6-6	0.4
1	Background Review. <i>Springer Theses</i> , 2016 , 11-33	0.1