

Amir Manbachi

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

2,333
citations

471509

17
h-index

361022

35
g-index

55
all docs

55
docs citations

55
times ranked

4408
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in monitoring for acute spinal cord injury: a narrative review of current literature. Spine Journal, 2022, 22, 1372-1387.	1.3	10
2	Ultrasound monitoring of microcirculation: An original study from the laboratory bench to the clinic. Microcirculation, 2022, 29, .	1.8	9
3	The development of Smart Hospital Assistant: integrating artificial intelligence and a voice-user interface for improved surgical outcomes. , 2021, 11601, .		2
4	90449 Can Ultrasound detect changes to spinal cord blood flow before and after injury?. Journal of Clinical and Translational Science, 2021, 5, 6-6.	0.6	0
5	Ultrasound in Traumatic Spinal Cord Injury: A Wide-Open Field. Neurosurgery, 2021, 89, 372-382.	1.1	15
6	Social Non-profit Bioentrepreneurship: Current Status and Future Impact on Global Health. Frontiers in Public Health, 2021, 9, 541191.	2.7	6
7	A Miniature Laser Speckle Contrast Imager for Monitoring the Neuromodulatory Effect of Transcranial Ultrasound Stimulation. , 2021, 2021, .		1
8	The Design and Use of a Minimally-Invasive, Expandable Retractor for Deep-Seated Brain Lesions. , 2021, 2021, .		1
9	Design and Fabrication of a Focused Ultrasound Device for Minimallyinvasive Neurosurgery: Reporting a Second, Miniaturized and Mrcompatible Prototype with Steering Capabilities. , 2021, 2021, .		1
10	In Reply: Ultrasound in Traumatic Spinal Cord Injury: A Wide-Open Field. Neurosurgery, 2021, Publish Ahead of Print, .	1.1	0
11	Curricular Advancement of Biomedical Engineering Undergraduate Design Projects Beyond 1ÂYear: A Pilot Study. Annals of Biomedical Engineering, 2020, 48, 1137-1146.	2.5	1
12	The effect of renin-angiotensin system blockers on spinal cord dysfunction and imaging features of spinal cord compression in patients with symptomatic cervical spondylosis. Spine Journal, 2020, 20, 519-529.	1.3	5
13	Epidural Oscillating Cardiac-Gated Intracranial Implant Modulates Cerebral Blood Flow. Neurosurgery, 2020, 87, 1299-1310.	1.1	2
14	Minimally invasive therapeutic ultrasound: Ultrasound-guided ultrasound ablation in neuro-oncology. Ultrasonics, 2020, 108, 106210.	3.9	16
15	Three-dimensional assessment of robot-assisted pedicle screw placement accuracy and instrumentation reliability based on a preplanned trajectory. Journal of Neurosurgery: Spine, 2020, 33, 519-528.	1.7	25
16	Minimizing cotton retention in neurosurgical procedures: which imaging modality can help?. , 2020, 11317, .		1
17	Infrared image-guidance for intraoperative assessment of limb length discrepancy during total hip arthroplasty procedures. , 2020, , .		0
18	Flexible piezoelectric sensor for real-time image-guided colonoscopies: a solution to endoscopic looping challenges in clinic. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
19	An Evaluation of Sensing Technologies to Measure Intraoperative Leg Length for Total Hip Arthroplasty. , 2020, 2020, .		0
20	12. Angiotensin-II type-1 receptor blockade decreased T2 signal intensity in spinal cord compression in symptomatic cervical spondylotic myelopathy. Spine Journal, 2019, 19, S6.	1.3	2
21	Sonolucent Cranial Implants: Cadaveric Study and Clinical Findings Supporting Diagnostic and Therapeutic Transcranioplasty Ultrasound. Journal of Craniofacial Surgery, 2019, 30, 1456-1461.	0.7	32
22	Transcranioplasty Ultrasound Through a Sonolucent Cranial Implant Made of Polymethyl Methacrylate: Phantom Study Comparing Ultrasound, Computed Tomography, and Magnetic Resonance Imaging. Journal of Craniofacial Surgery, 2019, 30, e626-e629.	0.7	25
23	Minimally invasive intraventricular ultrasound: design and instrumentation towards a miniaturized ultrasound-guided focused ultrasound probe. , 2019, , .		2
24	Starting a Medical Technology Venture as a Young Academic Innovator or Student Entrepreneur. Annals of Biomedical Engineering, 2018, 46, 1-13.	2.5	13
25	Reusable Core Needle Biopsy Device for Low-Resource Settings. Journal of Global Oncology, 2018, 4, 47s-47s.	0.5	0
26	Bioprinting: Microfluidicsâ€Enabled Multimaterial Maskless Stereolithographic Bioprinting (Adv. Mater.) Tj ETQq0 0,0 rgBT /Oyerlock 10	21.0	277
27	Microfluidicsâ€Enabled Multimaterial Maskless Stereolithographic Bioprinting. Advanced Materials, 2018, 30, e1800242.	21.0	277
28	Clinical Translation of the LevelCheck Decision Support Algorithm for Target Localization in Spine Surgery. Annals of Biomedical Engineering, 2018, 46, 1548-1557.	2.5	3
29	Virtual fluoroscopy for intraoperative C-arm positioning and radiation dose reduction. Journal of Medical Imaging, 2018, 5, 1.	1.5	14
30	Design and validation of an open-source library of dynamic reference frames for research and education in optical tracking. Journal of Medical Imaging, 2018, 5, 1.	1.5	11
31	Surface acoustic waves induced micropatterning of cells in gelatin methacryloyl (GelMA) hydrogels. Biofabrication, 2017, 9, 015020.	7.1	126
32	Background Review. Springer Theses, 2016, , 11-33.	0.1	0
33	Towards Ultrasound-guided Spinal Fusion Surgery. Springer Theses, 2016, , .	0.1	2
34	Bioprinted thrombosis-on-a-chip. Lab on A Chip, 2016, 16, 4097-4105.	6.0	183
35	Cardiovascular Organ-on-a-Chip Platforms for Drug Discovery and Development. Applied in Vitro Toxicology, 2016, 2, 82-96.	1.1	124
36	Nanotechnology in Textiles. ACS Nano, 2016, 10, 3042-3068.	14.6	530

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37	Summary of Contributions, Limitations, and Future Directions. Springer Theses, 2016, , 85-91.	0.1	0
38	Single Element Transducers. Springer Theses, 2016, , 37-55.	0.1	0
39	Organization of Pedicle Trabeculae. Springer Theses, 2016, , 35-36.	0.1	0
40	On estimating the directionality distribution in pedicle trabecular bone from micro-CT images. Physiological Measurement, 2014, 35, 2415-2428.	2.1	23
41	Guided pedicle screw insertion: techniques and training. Spine Journal, 2014, 14, 165-179.	1.3	83
42	Design and fabrication of a low-frequency (1-3 MHz) ultrasound transducer for accurate placement of screw implants in the spine. Proceedings of SPIE, 2014, , .	0.8	2
43	Slow and fast ultrasonic wave detection improvement in human trabecular bones using Golay code modulation. Journal of the Acoustical Society of America, 2012, 132, EL222-EL228.	1.1	28
44	Microfabricated Biomaterials for Engineering 3D Tissues. Advanced Materials, 2012, 24, 1782-1804.	21.0	351
45	On the shape of the common carotid artery with implications for blood velocity profiles. Physiological Measurement, 2011, 32, 1885-1897.	2.1	38
46	Development and Application of Piezoelectric Materials for Ultrasound Generation and Detection. Ultrasound, 2011, 19, 187-196.	0.7	176
47	A computational and experimental study inside microfluidic systems: the role of shear stress and flow recirculation in cell docking. Biomedical Microdevices, 2010, 12, 619-626.	2.8	31
48	Characterization of Common Carotid Artery Curvature and Its Impact on Velocity Profile Shape. , 2010, , .		0
49	High-throughput screening of cell responses to biomaterials. European Journal of Pharmaceutical Sciences, 2008, 35, 151-160.	4.0	66
50	Microcirculation within grooved substrates regulates cell positioning and cell docking inside microfluidic channels. Lab on A Chip, 2008, 8, 747.	6.0	79
51	A Gradient-generating Microfluidic Device for Cell Biology. Journal of Visualized Experiments, 2007, , 271.	0.3	10
52	A Microfluidic Device with Groove Patterns for Studying Cellular Behavior. Journal of Visualized Experiments, 2007, , 270.	0.3	2