

Amir Hooshiar

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

479
citations

1162367

8
h-index

1281420

11
g-index

26
all docs

26
docs citations

26
times ranked

488
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation and characterization of polyvinyl alcohol hydrogels crosslinked by biodegradable polyurethane for tissue engineering of cartilage. <i>Materials Science and Engineering C</i> , 2010, 30, 636-643.	3.8	111
2	Haptic Telerobotic Cardiovascular Intervention: A Review of Approaches, Methods, and Future Perspectives. <i>IEEE Reviews in Biomedical Engineering</i> , 2020, 13, 32-50.	13.1	54
3	Hybrid piezoresistive-optical tactile sensor for simultaneous measurement of tissue stiffness and detection of tissue discontinuity in robot-assisted minimally invasive surgery. <i>Journal of Biomedical Optics</i> , 2017, 22, 077002.	1.4	39
4	Composite magnetorheological elastomers for tactile displays: Enhanced MR-effect through bi-layer composition. <i>Composites Part B: Engineering</i> , 2020, 190, 107888.	5.9	36
5	Toward Task Autonomy in Robotic Cardiac Ablation: Learning-Based Kinematic Control of Soft Tendon-Driven Catheters. <i>Soft Robotics</i> , 2021, 8, 340-351.	4.6	35
6	Magnetostriction-based force feedback for robot-assisted cardiovascular surgery using smart magnetorheological elastomers. <i>Mechanical Systems and Signal Processing</i> , 2021, 161, 107918.	4.4	33
7	Development and assessment of a stiffness display system for minimally invasive surgery based on smart magneto-rheological elastomers. <i>Materials Science and Engineering C</i> , 2020, 108, 110409.	3.8	21
8	Sensor-free Force Control of Tendon-driven Ablation Catheters through Position Control and Contact Modeling. , 2020, 2020, 5248-5251.		18
9	Sensing principle for real-time characterization of viscoelasticity in the beating myocardial tissue. , 2017, , .		15
10	Displacement-based Model for Estimation of Contact Force Between RFA Catheter and Atrial Tissue with ex-vivo Validation. , 2019, , .		15
11	Accurate Estimation of Tip Force on Tendon-driven Catheters using Inverse Cosserat Rod Model. , 2020, , .		15
12	Image-based Estimation of Contact Forces on Catheters for Robot-assisted Cardiovascular Intervention. , 0, , .		14
13	Integral-Free Spatial Orientation Estimation Method and Wearable Rotation Measurement Device for Robot-Assisted Catheter Intervention. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022, 27, 766-776.	3.7	12
14	Optical Fiber Array Sensor for Lateral and Circumferential Force Measurement Suitable for Minimally Invasive Surgery: Design, Modeling and Analysis. , 2016, , .		11
15	Association of a synthetic bone graft and bone marrow cells as a composite biomaterial. <i>Biotechnology and Bioprocess Engineering</i> , 2009, 14, 1-5.	1.4	8
16	Application of Albumin Protein and Indocyanine Green Chromophore for Tissue Soldering by Using an IR Diode Laser: Ex Vivo and In Vivo Studies. <i>Photomedicine and Laser Surgery</i> , 2010, 28, 723-733.	2.1	6
17	Bending-based formulation of light intensity modulation for miniaturization of optical tactile sensors. , 2018, , .		6
18	Image-based Contact Detection and Static Force Estimation on Steerable RFA Catheters. , 2020, , .		5

#	ARTICLE	IF	CITATIONS
19	Comparison between Brain Tissue Gray and White Matters in Tension Including Necking Phenomenon. American Journal of Applied Sciences, 2008, 5, 1701-1706.	0.1	5
20	Toward Semi-Autonomous Stiffness Adaptation of Pneumatic Soft Robots: Modeling and Validation. , 2021, , .		5
21	Force Estimation on Steerable Catheters through Learning-from-Simulation with ex-vivo Validation. , 2021, , .		5
22	Analytical Modeling and Experimental Validation of a Gelatin-based Shape Sensor for Soft Robots. , 2022, , .		5
23	Impedance Matching Approach for Robust Force Feedback Rendering with Application in Robot-assisted Interventions. , 2020, , .		4
24	Pretensioned Structures as Multi Axis Force Sensors. , 2017, , .		1
25	Simultaneous Presence of Growth and Remodeling in the Bone Adaptation Theory. American Journal of Applied Sciences, 2009, 6, 352-360.	0.1	0
26	Modeling of Rate-dependent Force-Displacement Behavior of MREs using Neural Networks for Torque Feedback Applications [*] . , 2020, , .		0