Deqing Mei

List of Publications by Year in Descending Order

43 papers	945 citations	15 h-index	30 g-index
45 ext. papers	1,319 ext. citations	6 avg, IF	4.73 L-index

#	Paper	IF	Citations
43	A Flexible Tactile Sensor with Dual-Interlocked Structure for Broad Range Force Sensing and Gaming Applications. *IEEE Transactions on Instrumentation and Measurement*, **2022**, 1-1	5.2	5
42	Programmable motion control and trajectory manipulation of microparticles through tri-directional symmetrical acoustic tweezers.. *Lab on A Chip*, **2022**,	7.2	4
41	Highly sensitive and flexible tactile sensor with truncated pyramid-shaped porous graphene/silicone rubber composites for human motion detection. *Composites Science and Technology*, **2022**, 217, 109078	8.6	7
40	A methanol fuel processing system with methanol steam reforming and CO selective methanation modules for PEMFC application. *International Journal of Energy Research*, **2021**, 45, 6163-6173	4.5	5
39	Solution-Processed All-Ceramic Plasmonic Metamaterials for Efficient Solar-Thermal Conversion over 100-727□C. *Advanced Materials*, **2021**, 33, e2005074	24	26
38	Liquid Metal-Based Wearable Tactile Sensor for Both Temperature and Contact Force Sensing. *IEEE Sensors Journal*, **2021**, 21, 1694-1703	4	22
37	Development of flexible tactile sensor for the envelop of curved robotic hand finger in grasping force sensing. *Measurement: Journal of the International Measurement Confederation*, **2021**, 180, 109524	4.6	6
36	2D Ti C T MXenes: Visible Black but Infrared White Materials. *Advanced Materials*, **2021**, 33, e2103054	24	16
35	EDTA-mimicking amino acid□metal ion coordination for multifunctional packings. *Journal of Materials Chemistry A*, **2021**, 9, 20385-20394	13	1
34	Development of Wearable Tactile Sensor Based on Galinstan Liquid Metal for Both Temperature and Contact Force Sensing **2020**,		3
33	Scalable Printing of Bionic Multiscale Channel Networks Through Digital Light Processing-Based Three-Dimensional Printing Process. *3D Printing and Additive Manufacturing*, **2020**, 7, 115-125	4	4
32	Fully Elastomeric Fingerprint-Shaped Electronic Skin Based on Tunable Patterned Graphene/Silver Nanocomposites. *ACS Applied Materials & Interfaces*, **2020**, 12, 31725-31737	9.5	23
31	Standing surface acoustic wave-assisted fabrication of patterned microstructures for enhancing cell migration. *Bio-Design and Manufacturing*, **2020**, 3, 87-97	4.7	5
30	Bioinspired Suprahelical Frameworks as Scaffolds for Artificial Photosynthesis. *ACS Applied Materials & Interfaces*, **2020**, 12, 45192-45201	9.5	2
29	Acoustofluidic waveguides for fabrication of localized polymeric microstructure arrays. *Applied Physics A: Materials Science and Processing*, **2020**, 126, 1	2.6	0
28	Development of Fully Flexible Tactile Pressure Sensor with Bilayer Interlaced Bumps for Robotic Grasping Applications. *Micromachines*, **2020**, 11,	3.3	9
27	Flexible Tactile Sensor Array for Slippage and Grooved Surface Recognition in Sliding Movement. *Micromachines*, **2019**, 10,	3.3	7

26	A highly flexible tactile sensor with an interlocked truncated sawtooth structure based on stretchable graphene/silver/silicone rubber composites. *Journal of Materials Chemistry C*, **2019**, 7, 8669-8679	7.1	24
25	Digital Light Processing-Based 3D Printing of Cell-Seeding Hydrogel Scaffolds with Regionally Varied Stiffness. *ACS Biomaterials Science and Engineering*, **2019**, 5, 4825-4833	5.5	21
24	Flexible tactile sensor array for distributed tactile sensing and slip detection in robotic hand grasping. *Sensors and Actuators A: Physical*, **2019**, 297, 111512	3.9	30
23	Highly Sensitive and Flexible Tactile Sensor Based on Porous Graphene Sponges for Distributed Tactile Sensing in Monitoring Human Motions. *Journal of Microelectromechanical Systems*, **2019**, 28, 154-163	2.5	30
22	Nanoscale 3D printing of hydrogels for cellular tissue engineering. *Journal of Materials Chemistry B*, **2018**, 6, 2187-2197	7.3	54
21	Wearable Thermoelectric Generator With Copper Foam as the Heat Sink for Body Heat Harvesting. *IEEE Access*, **2018**, 6, 43602-43611	3.5	29
20	Numerical modeling of the performance of thermoelectric module with polydimethylsiloxane encapsulation. *International Journal of Energy Research*, **2018**, 42, 1287-1297	4.5	14
19	Five-plane lancet needle design for soft PVC phantom tissue cutting. *Bio-Design and Manufacturing*, **2018**, 1, 195-202	4.7	1
18	Modulating physical, chemical, and biological properties in 3D printing for tissue engineering applications. *Applied Physics Reviews*, **2018**, 5,	17.3	17
17	Relative position control and coalescence of independent microparticles using ultrasonic waves. *Journal of Applied Physics*, **2017**, 121, 184503	2.5	4
16	Flexible Tactile Sensor Array Mounted on the Curved Surface: Analytical Modeling and Experimental Validation. *Journal of Microelectromechanical Systems*, **2017**, 26, 1002-1011	2.5	2
15	A T-Type Capacitive Sensor Capable of Measuring5-DOF Error Motions of Precision Spindles. *Sensors*, **2017**, 17,	3.8	2
14	A flexible capacitive tactile sensor array with high scanning speed for distributed contact force measurements **2016**,		6
13	3D printing of functional biomaterials for tissue engineering. *Current Opinion in Biotechnology*, **2016**, 40, 103-112	11.4	382
12	Slip detection in prosthetic hand grasping by using the discrete wavelet transform analysis **2016**,		3
11	Microstructure and thermoelectric properties of porous Bi2Te2.85Se0.15 bulk materials fabricated by semisolid powder processing. *Journal of Materials Research*, **2015**, 30, 2585-2592	2.5	11
10	Flexible Capacitive Tactile Sensor Array With Truncated Pyramids as Dielectric Layer for Three-Axis Force Measurement. *Journal of Microelectromechanical Systems*, **2015**, 24, 1510-1519	2.5	90
9	Contactless and non-invasive delivery of micro-particles lying on a non-customized rigid surface by using acoustic radiation force. *Ultrasonics*, **2014**, 54, 1350-7	3.5	3

8	Sound field separating on arbitrary surfaces enclosing a sound scatterer based on combined integral equations. *Ultrasonics*, **2014**, 54, 2169-77	3.5	1
7	Flow Manifold Optimization for a Uniform Velocity Distribution in a Laminated Microreactor with Micro-Pin-Fin Arrays. *Chemical Engineering and Technology*, **2014**, 37, 1112-1120	2	12
6	Acoustic Softening and Hardening of Aluminum in High-Frequency Vibration-Assisted Micro/Meso Forming. *Materials and Manufacturing Processes*, **2013**, 28, 584-588	4.1	19
5	Experimental Study of High-Frequency Vibration Assisted Micro/Mesoscale Forming of Metallic Materials. *Journal of Manufacturing Science and Engineering, Transactions of the ASME*, **2011**, 133,	3.3	12
4	Parameter optimization of time-varying stiffness method for chatter suppression based on magnetorheological fluid-controlled boring bar. *International Journal of Advanced Manufacturing Technology*, **2010**, 46, 1071-1083	3.2	29
3	3D Printing of Liquid Metal Based Tactile Sensor for Simultaneously Sensing of Temperature and Forces. *International Journal of Smart and Nano Materials*,1-17	3.6	2
2	Large-Area Hand-Covering Elastomeric Electronic Skin Sensor with Distributed Multifunctional Sensing Capability. *Advanced Intelligent Systems*,2100118	6	2
1	Modulating vectored non-covalent interactions for layered assembly with engineerable properties. *Bio-Design and Manufacturing*,1	4.7	0