Pei Song Chee

List of Publications by Year
in descending order

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64	701	567281 15	610901 24
papers	citations	h-index	g-index

64	64	64	435
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Soft dielectric elastomer actuator micropump. Sensors and Actuators A: Physical, 2017, 263, 276-284.	4.1	83
2	Wireless powered thermo-pneumatic micropump using frequency-controlled heater. Sensors and Actuators A: Physical, 2015, 233, 1-8.	4.1	56
3	Electromagnetic actuation dual-chamber bidirectional flow micropump. Sensors and Actuators A: Physical, 2018, 282, 17-27.	4.1	45
4	Wireless-powered electroactive soft microgripper. Smart Materials and Structures, 2018, 27, 055014.	3.5	38
5	Wirelessly activated device with an integrated ionic polymer metal composite (IPMC) cantilever valve for targeted drug delivery. Lab on A Chip, 2018, 18, 3207-3215.	6.0	35
6	Radio-frequency enabled ionic polymer metal composite (IPMC) actuator for drug release application. Smart Materials and Structures, 2019, 28, 015024.	3.5	35
7	Thermal analysis of wirelessly powered thermo-pneumatic micropump based on planar LC circuit. Journal of Mechanical Science and Technology, 2016, 30, 2659-2665.	1.5	29
8	Deformable Liquid Metal Patch Antenna for Air Pressure Detection. IEEE Sensors Journal, 2020, 20, 3963-3970.	4.7	29
9	Design of a wireless smart insole using stretchable microfluidic sensor for gait monitoring. Smart Materials and Structures, 2020, 29, 065003.	3.5	29
10	Modular Architecture of a Non-Contact Pinch Actuation Micropump. Sensors, 2012, 12, 12572-12587.	3.8	27
11	Piezoresistive strain sensor array using polydimethylsiloxane-based conducting nanocomposites for electronic skin application. Sensor Review, 2018, 38, 494-500.	1.8	24
12	Bidirectional flow micropump based on dynamic rectification. Sensors and Actuators A: Physical, 2013, 204, 107-113.	4.1	20
13	A novel crenellated ionic polymer-metal composite (IPMC) actuator with enhanced electromechanical performances. Smart Materials and Structures, 2019, 28, 115011.	3.5	18
14	Compact organic liquid dielectric resonator antenna for air pressure sensing using soft material. Scientific Reports, 2020, 10, 14907.	3.3	18
15	Artificial Intelligence-Assisted Throat Sensor Using Ionic Polymerâ€“Metal Composite (IPMC) Material. Polymers, 2021, 13, 3041.	4.5	18
16	Selection of Optimal Parameters in Fabrication of Poly(dimethylsiloxane) Microfluidics Using Taguchi Method. Advanced Science Letters, 2013, 19, 32-36.	0.2	16
17	Self-powered pressure sensor based on microfluidic triboelectric principle for humanâ€“machine interface applications. Smart Materials and Structures, 2021, 30, 075012.	3.5	15
18	Frequency Reconfigurable Smart Antenna With Integrated Electroactive Polymer for Far-Field Communication. IEEE Transactions on Antennas and Propagation, 2022, 70, 856-867.	5.1	13

#	Article	IF	Citations
19	Stacked Planar Inverted-L Antenna With Enhanced Capacitance for Compact Tag Design. IEEE Transactions on Antennas and Propagation, 2022, 70, 1816-1823.	5.1	11
20	An AI-Assisted and Self-Powered Smart Robotic Gripper Based on Eco-EGaIn Nanocomposite for Pick-and-Place Operation. Nanomaterials, 2022, 12, 1317.	4.1	11
21	Liquid EBG-Backed Stretchable Slot Antenna for Human Body. IEEE Transactions on Antennas and Propagation, 2022, 70, 9120-9129.	5.1	10
22	Micro Pump Pattern Replication Using Printed Circuit Board (PCB) Technology. Materials and Manufacturing Processes, 2013, , 130522152012004.	4.7	8
23	Dipolar Tag Antenna With a Top-Loading Inductive Channel With Broad Range Frequency Tuning Capability. IEEE Transactions on Antennas and Propagation, 2022, 70, 1653-1662.	5.1	7
24	Novel In-House Fabrication of Nano Lab-On-Chip Devices. Current Nanoscience, 2013, 9, 543-551.	1.2	7
25	A Stretchable Kirigamiâ€Inspired Selfâ€Powered Electroactive Sensor for Tensile Strain and Torsion Sensing. Advanced Engineering Materials, 2022, 24, 2100961.	3.5	7
26	Fabrication of PDMS multi-layer microstructure: The electroosmosis mechanism in fluidics for life sciences. , 2012, , .		6
27	A wireless powered electroactive polymer using magnetic resonant coupling. IOP Conference Series: Materials Science and Engineering, 0, 409, 012002.	0.6	6
28	Polysilicon Nanowire Fabrication as a Transducer for Fast Reaction Assays in Nano Lab-on-Chip Domain. Sensor Letters, 2013, 11, 333-336.	0.4	6
29	Artificial intelligence (AI)-driven smart glove for object recognition application. Materials Today: Proceedings, 2022, 64, 1563-1568.	1.8	6
30	Low Cost Diffuser Based Micropump Using Pinch Actuation. Advanced Materials Research, 2011, 422, 397-400.	0.3	5
31	Mask design for the reproducible fabrication and reliable pattern transfer for polysilicon Nanowire. , 2012, , .		5
32	Soft dielectric elastomer actuator for micropump application. , 2016, , .		5
33	Development of a Self-Powered and Stretchable Sensor for Wearable Electronics. , 2021, , .		5
34	Polyvinylpyrrolidoneâ•Multiwall Carbon Nanotube Composite Based 36Â° YX LiTaO[sub 3] Surface Acoustic Wave For Hydrogen Gas Sensing Applications. AIP Conference Proceedings, 2011, , .	0.4	4
35	Miniaturized Planar Sensor Development. Jurnal Teknologi (Sciences and Engineering), 2014, 69, .	0.4	4
36	A study of the in-column detection performance for chromatography separation. Microfluidics and Nanofluidics, 2015, 19, 343-349.	2.2	4

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37	A Microreservior-based Drug Delivery Device Using Ionic Polymer Metal Composite (IPMC) Actuator. , 2018, , .		3
38	Ionic Polymer Actuator With Crenellated Structures for MEMs Application. , 2020, , .		3
39	Disposable Polymeric Electromagnetic Actuated Micropump. Advanced Science Letters, 2012, 13, 560-564.	0.2	3
40	Compact Ring Antennas With High-Impedance Line Loaded With Distributed Inductors for On-Metal Tag Design. IEEE Transactions on Antennas and Propagation, 2022, 70, 1740-1749.	5.1	3
41	Wearable Flexible Antenna For Microwave Wireless Power Transfer. , 2022, , .		3
42	Polydimethylsiloxane (PDMS) Based Microfluidic Droplet Generator for Cell Counting Application. Journal of Medical Imaging and Health Informatics, 2013, 3, 538-542.	0.3	2
43	Effect of Microfins on Thermal Performance of Microchannel Using CFD. International Journal of Engineering and Technology(UAE), 2018, 7, 1.	0.3	2
44	Compact Folded Patch with Stretchable PDMS Substrate for On-Body RFID Applications. , 2019, , .		2
45	MINIATURE FOLDED DIPOLE IN ROTATIONAL SYMMETRY FOR METAL TAG DESIGN. Progress in Electromagnetics Research C, 2021, 110, 55-66.	0.9	2
46	Inverted Patch with an Inductive Loop-Shaped Feeder for On-Metal Tag Design. , 2020, , .		2
47	Coupled-PILAs for Miniature On-metal RFID Tag Design. , 2020, , .		2
48	Flexible Folded-Patch Antenna with Tapered Edges for Metal-Mountable UHF RFID Tag Design. , 2020, , .		2
49	Polyvinylpyrrolidone/multiwall carbon nanotube composite based 36° YX LiTaO<inf>3</inf> surface acoustic wave H<inf>2</inf> gas sensor. , 2010, , .		1
50	Miniaturized Planar Tomography for Multiphase Stagnant Sample Detection. Jurnal Teknologi (Sciences and Engineering), 2015, 73, .	0.4	1
51	Parametric study of a diffuser in a pressure driven micropump. , 2015, , .		1
52	A Parametric Study of a Sponge-based Triboelectric Energy Harvester. , 2021, , .		1
53	Characterization of Electromagnetic Valveless Micropump. Telkomnika (Telecommunication) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.8	1
54	EZ430-Chronos Watch as a Wireless Health Monitoring Device. IFMBE Proceedings, 2011, , 305-307.	0.3	1

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55	Characterization of Electromagnetic Valveless Micropump. Telkomnika (Telecommunication) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.8	1
56	Integration of electrochemical detection into micropumps for continuous monitoring system. , 2015, , .		0
57	Wireless valving for centrifugal microfluidic platform using field frequency modulation. , 2017, , .		0
58	Simulation of Electromagnetic Actuated Valveless Micropump for Bidirectional Flow. Communications in Computer and Information Science, 2017, , 615-627.	0.5	0
59	Development of A Microfluidic Based Stretchable Sensor. , 2019, , .		0
60	Kirigami-Structured and Self-Powered Pressure Sensor Using Electroactive Polymer. , 2021, , .		0
61	A Comparison of Principal Component Regression and Artificial Neural Network in VIS-SWNIR Spectroscopy. , 2011, , .		0
62	Auto Pan Tilt Motion Surveillance System. Jurnal Teknologi (Sciences and Engineering), 0, , .	0.4	0
63	Characteristic of Thin Sheet Membrane for a Mechanical Driven Micropump System. International Journal of Integrated Engineering, 2019, 11, .	0.4	0
64	Flexible Dual-chip Folded Patch for Polarization-diversity Metal-mountable Tag Design. , 2020, , .		0