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	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
2	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
3	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
4	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
5	A Stretchable Kirigamiâ€Inspired Selfâ€Powered Electroactive Sensor for Tensile Strain and Torsion Sensing. Advanced Engineering Materials, 2022, 24, 2100961.	3.5	7
6	Artificial intelligence (AI)-driven smart glove for object recognition application. Materials Today: Proceedings, 2022, 64, 1563-1568.	1.8	6
7	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
8	Liquid EBG-Backed Stretchable Slot Antenna for Human Body. IEEE Transactions on Antennas and Propagation, 2022, 70, 9120-9129.	5.1	10
9	Wearable Flexible Antenna For Microwave Wireless Power Transfer. , 2022, , .		3
10	MINIATURE FOLDED DIPOLE IN ROTATIONAL SYMMETRY FOR METAL TAG DESIGN. Progress in Electromagnetics Research C, 2021, 110, 55-66.	0.9	2
11	Kirigami-Structured and Self-Powered Pressure Sensor Using Electroactive Polymer. , 2021, , .		0
12	Development of a Self-Powered and Stretchable Sensor for Wearable Electronics. , 2021, , .		5
13	A Parametric Study of a Sponge-based Triboelectric Energy Harvester. , 2021, , .		1
14	Self-powered pressure sensor based on microfluidic triboelectric principle for humanâ€“machine interface applications. Smart Materials and Structures, 2021, 30, 075012.	3.5	15
15	Artificial Intelligence-Assisted Throat Sensor Using Ionic Polymerâ€“Metal Composite (IPMC) Material. Polymers, 2021, 13, 3041.	4.5	18
16	Deformable Liquid Metal Patch Antenna for Air Pressure Detection. IEEE Sensors Journal, 2020, 20, 3963-3970.	4.7	29
17	Ionic Polymer Actuator With Crenellated Structures for MEMs Application. , 2020, , .		3
18	Compact organic liquid dielectric resonator antenna for air pressure sensing using soft material. Scientific Reports, 2020, 10, 14907.	3.3	18

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19	Design of a wireless smart insole using stretchable microfluidic sensor for gait monitoring. Smart Materials and Structures, 2020, 29, 065003.	3.5	29
20	Inverted Patch with an Inductive Loop-Shaped Feeder for On-Metal Tag Design. , 2020, , .		2
21	Flexible Dual-chip Folded Patch for Polarization-diversity Metal-mountable Tag Design. , 2020, , .		0
22	Coupled-PILAs for Miniature On-metal RFID Tag Design. , 2020, , .		2
23	Flexible Folded-Patch Antenna with Tapered Edges for Metal-Mountable UHF RFID Tag Design. , 2020, , .		2
24	A novel crenellated ionic polymer-metal composite (IPMC) actuator with enhanced electromechanical performances. Smart Materials and Structures, 2019, 28, 115011.	3.5	18
25	Compact Folded Patch with Stretchable PDMS Substrate for On-Body RFID Applications. , 2019, , .		2
26	Development of A Microfluidic Based Stretchable Sensor. , 2019, , .		0
27	Radio-frequency enabled ionic polymer metal composite (IPMC) actuator for drug release application. Smart Materials and Structures, 2019, 28, 015024.	3.5	35
28	Characteristic of Thin Sheet Membrane for a Mechanical Driven Micropump System. International Journal of Integrated Engineering, 2019, 11, .	0.4	0
29	Piezoresistive strain sensor array using polydimethylsiloxane-based conducting nanocomposites for electronic skin application. Sensor Review, 2018, 38, 494-500.	1.8	24
30	Wireless-powered electroactive soft microgripper. Smart Materials and Structures, 2018, 27, 055014.	3.5	38
31	A Microreservior-based Drug Delivery Device Using Ionic Polymer Metal Composite (IPMC) Actuator. , 2018, , .		3
32	Effect of Microfins on Thermal Performance of Microchannel Using CFD. International Journal of Engineering and Technology(UAE), 2018, 7, 1.	0.3	2
33	Electromagnetic actuation dual-chamber bidirectional flow micropump. Sensors and Actuators A: Physical, 2018, 282, 17-27.	4.1	45
34	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
35	Wireless valving for centrifugal microfluidic platform using field frequency modulation. , 2017, , .		0
36	Simulation of Electromagnetic Actuated Valveless Micropump for Bidirectional Flow. Communications in Computer and Information Science, 2017, , 615-627.	0.5	0

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37	Soft dielectric elastomer actuator micropump. Sensors and Actuators A: Physical, 2017, 263, 276-284.	4.1	83
38	Characterization of Electromagnetic Valveless Micropump. Telkomnika (Telecommunication) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 T	0.8	1
39	Characterization of Electromagnetic Valveless Micropump. Telkomnika (Telecommunication) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	0.8	1
40	Soft dielectric elastomer actuator for micropump application. , 2016, , .		5
41	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
42	Miniaturized Planar Tomography for Multiphase Stagnant Sample Detection. Jurnal Teknologi (Sciences and Engineering), 2015, 73, .	0.4	1
43	Wireless powered thermo-pneumatic micropump using frequency-controlled heater. Sensors and Actuators A: Physical, 2015, 233, 1-8.	4.1	56
44	A study of the in-column detection performance for chromatography separation. Microfluidics and Nanofluidics, 2015, 19, 343-349.	2.2	4
45	Integration of electrochemical detection into micropumps for continuous monitoring system. , 2015, , .		0
46	Parametric study of a diffuser in a pressure driven micropump. , 2015, , .		1
47	Miniaturized Planar Sensor Development. Jurnal Teknologi (Sciences and Engineering), 2014, 69, .	0.4	4
48	Bidirectional flow micropump based on dynamic rectification. Sensors and Actuators A: Physical, 2013, 204, 107-113.	4.1	20
49	Polydimethylsiloxane (PDMS) Based Microfluidic Droplet Generator for Cell Counting Application. Journal of Medical Imaging and Health Informatics, 2013, 3, 538-542.	0.3	2
50	Micro Pump Pattern Replication Using Printed Circuit Board (PCB) Technology. Materials and Manufacturing Processes, 2013, , 130522152012004.	4.7	8
51	Selection of Optimal Parameters in Fabrication of Poly(dimethylsiloxane) Microfluidics Using Taguchi Method. Advanced Science Letters, 2013, 19, 32-36.	0.2	16
52	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
53	Novel In-House Fabrication of Nano Lab-On-Chip Devices. Current Nanoscience, 2013, 9, 543-551.	1.2	7
54	Modular Architecture of a Non-Contact Pinch Actuation Micropump. Sensors, 2012, 12, 12572-12587.	3.8	27

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55	Fabrication of PDMS multi-layer microstructure: The electroosmosis mechanism in fluidics for life sciences. , 2012, , .		6
56	Mask design for the reproducible fabrication and reliable pattern transfer for polysilicon Nanowire. , 2012, , .		5
57	Disposable Polymeric Electromagnetic Actuated Micropump. Advanced Science Letters, 2012, 13, 560-564.	0.2	3
58	Low Cost Diffuser Based Micropump Using Pinch Actuation. Advanced Materials Research, 2011, 422, 397-400.	0.3	5
59	Polyvinylpyrrolidoneâˆ•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
60	A Comparison of Principal Component Regression and Artificial Neural Network in VIS-SWNIR Spectroscopy. , 2011, , .		0
61	EZ430-Chronos Watch as a Wireless Health Monitoring Device. IFMBE Proceedings, 2011, , 305-307.	0.3	1
62	Polyvinylpyrrolidone/multiwall carbon nanotube composite based 36° YX LiTaO<inf>3</inf> surface acoustic wave H<inf>2</inf> gas sensor. , 2010, , .		1
63	A wireless powered electroactive polymer using magnetic resonant coupling. IOP Conference Series: Materials Science and Engineering, 0, 409, 012002.	0.6	6
64	Auto Pan Tilt Motion Surveillance System. Jurnal Teknologi (Sciences and Engineering), 0, , .	0.4	0