

Russel Torah

List of Publications by Year in descending order

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95
papers

3,966
citations

172457

29
h-index

123424

61
g-index

95
all docs

95
docs citations

95
times ranked

4069
citing authors

#	ARTICLE	IF	CITATIONS
1	A micro electromagnetic generator for vibration energy harvesting. Journal of Micromechanics and Microengineering, 2007, 17, 1257-1265.	2.6	1,203
2	Self-powered autonomous wireless sensor node using vibration energy harvesting. Measurement Science and Technology, 2008, 19, 125202.	2.6	207
3	Recent progress on textile-based triboelectric nanogenerators. Nano Energy, 2019, 55, 401-423.	16.0	184
4	Inkjet-Printed Microstrip Patch Antennas Realized on Textile for Wearable Applications. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 71-74.	4.0	147
5	Inkjet printed dipole antennas on textiles for wearable communications. IET Microwaves, Antennas and Propagation, 2013, 7, 760-767.	1.4	104
6	Experimental investigation into the effect of substrate clamping on the piezoelectric behaviour of thick-film PZT elements. Journal Physics D: Applied Physics, 2004, 37, 1074-1078.	2.8	101
7	Waterproof and durable screen printed silver conductive tracks on textiles. Textile Research Journal, 2013, 83, 2023-2031.	2.2	99
8	Flexible screen printed thermoelectric generator with enhanced processes and materials. Sensors and Actuators A: Physical, 2016, 238, 196-206.	4.1	94
9	Screen printed fabric electrode array for wearable functional electrical stimulation. Sensors and Actuators A: Physical, 2014, 213, 108-115.	4.1	90
10	Flexible piezoelectric nano-composite films for kinetic energy harvesting from textiles. Nano Energy, 2017, 33, 146-156.	16.0	89
11	The development of screen printed conductive networks on textiles for biopotential monitoring applications. Sensors and Actuators A: Physical, 2014, 206, 35-41.	4.1	88
12	A Smart Textile Based Facial EMG and EOG Computer Interface. IEEE Sensors Journal, 2014, 14, 393-400.	4.7	79
13	Integrating Flexible Filament Circuits for E-textile Applications. Advanced Materials Technologies, 2019, 4, 1900176.	5.8	74
14	Novel active electrodes for ECG monitoring on woven textiles fabricated by screen and stencil printing. Sensors and Actuators A: Physical, 2015, 221, 60-66.	4.1	66
15	Textile-based triboelectric nanogenerator with alternating positive and negative freestanding grating structure. Nano Energy, 2019, 66, 104148.	16.0	66
16	Screen Printable Flexible BiTe/SbTe-Based Composite Thermoelectric Materials on Textiles for Wearable Applications. IEEE Transactions on Electron Devices, 2016, 63, 4024-4030.	3.0	61
17	Printed frequency selective surfaces on textiles. Electronics Letters, 2014, 50, 916-917.	1.0	59
18	Fully spray-coated organic solar cells on woven polyester cotton fabrics for wearable energy harvesting applications. Journal of Materials Chemistry A, 2016, 4, 5561-5568.	10.3	57

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19	A multilayer thick-film PZT actuator for MEMs applications. <i>Sensors and Actuators A: Physical</i> , 2006, 132, 311-316.	4.1	52
20	Development of User-Friendly Wearable Electronic Textiles for Healthcare Applications. <i>Sensors</i> , 2018, 18, 2410.	3.8	49
21	Thick-film piezoceramics and devices. <i>Journal of Electroceramics</i> , 2007, 19, 97-112.	2.0	47
22	Experimental comparison of macro and micro scale electromagnetic vibration powered generators. <i>Microsystem Technologies</i> , 2007, 13, 1647-1653.	2.0	47
23	An investigation into the durability of screen-printed conductive tracks on textiles. <i>Measurement Science and Technology</i> , 2014, 25, 025006.	2.6	45
24	E-Textile Technology Reviewâ€œFrom Materials to Application. <i>IEEE Access</i> , 2021, 9, 97152-97179.	4.2	40
25	Reliable UHF Long-Range Textile-Integrated RFID Tag Based on a Compact Flexible Antenna Filament. <i>Sensors</i> , 2020, 20, 3435.	3.8	38
26	Improving the piezoelectric properties of thick-film PZT: the influence of paste composition, powder milling process and electrode material. <i>Sensors and Actuators A: Physical</i> , 2004, 110, 378-384.	4.1	37
27	Textile-based triboelectric nanogenerator with alternating positive and negative freestanding woven structure for harvesting sliding energy in all directions. <i>Nano Energy</i> , 2022, 92, 106739.	16.0	36
28	Screen printing of a capacitive cantilever-based motion sensor on fabric using a novel sacrificial layer process for smart fabric applications. <i>Measurement Science and Technology</i> , 2013, 24, 075104.	2.6	35
29	Dispenser printed capacitive proximity sensor on fabric for applications in the creative industries. <i>Sensors and Actuators A: Physical</i> , 2016, 247, 239-246.	4.1	33
30	An all-inkjet printed flexible capacitor on a textile using a new poly(4-vinylphenol) dielectric ink for wearable applications. , 2012, , .		29
31	Energy-harvesting materials for smart fabrics and textiles. <i>MRS Bulletin</i> , 2018, 43, 214-219.	3.5	29
32	Wearable EEG headband using printed electrodes and powered by energy harvesting for emotion monitoring in ambient assisted living. <i>Smart Materials and Structures</i> , 2015, 24, 125028.	3.5	27
33	Solution Processed Organic Solar Cells on Textiles. <i>IEEE Journal of Photovoltaics</i> , 2018, 8, 1710-1715.	2.5	26
34	A systematic review of the key factors affecting tissue viability and rehabilitationÂ outcomes of the residual limb in lower extremity traumatic amputees. <i>Journal of Tissue Viability</i> , 2014, 23, 81-93.	2.0	25
35	A Complex Multilayer Screen-Printed Electroluminescent Watch Display on Fabric. <i>Journal of Display Technology</i> , 2016, 12, 1757-1763.	1.2	25
36	Embedded Capacitive Proximity and Touch Sensing Flexible Circuit System for Electronic Textile and Wearable Systems. <i>IEEE Sensors Journal</i> , 2019, 19, 6975-6985.	4.7	24

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37	Modified PDMS packaging of sensory e-textile circuit microsystems for improved robustness with washing. <i>Microsystem Technologies</i> , 2022, 28, 1467-1484.	2.0	23
38	An improved thick-film piezoelectric material by powder blending and enhanced processing parameters. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005, 52, 10-16.	3.0	22
39	Dispenser-printed sound-emitting fabrics for applications in the creative fashion and smart architecture industry. <i>Journal of the Textile Institute</i> , 2019, 110, 1-9.	1.9	22
40	Screen Printed PZT Thick Films Using Composite Film Technology. <i>Integrated Ferroelectrics</i> , 2003, 54, 651-658.	0.7	21
41	Dispenser printed electroluminescent lamps on textiles for smart fabric applications. <i>Smart Materials and Structures</i> , 2016, 25, 045016.	3.5	21
42	Wash Testing of Electronic Yarn. <i>Materials</i> , 2020, 13, 1228.	2.9	21
43	A screen printable sacrificial fabrication process to realise a cantilever on fabric using a piezoelectric layer to detect motion for wearable applications. <i>Sensors and Actuators A: Physical</i> , 2013, 203, 241-248.	4.1	19
44	Screen Printed PZT Composite Thick Films. <i>Integrated Ferroelectrics</i> , 2004, 63, 89-92.	0.7	18
45	Self powered wireless sensors for condition monitoring applications. <i>Sensor Review</i> , 2009, 29, 38-43.	1.8	17
46	A novel fabrication process to realize a valveless micropump on a flexible substrate. <i>Smart Materials and Structures</i> , 2014, 23, 025034.	3.5	17
47	Dispenser printing of electrochromic display on textiles for creative applications. <i>Electronics Letters</i> , 2017, 53, 779-781.	1.0	16
48	Textile-Based Flexible Coils for Wireless Inductive Power Transmission. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 912.	2.5	15
49	Novel Electronic Packaging Method for Functional Electronic Textiles. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2019, 9, 216-225.	2.5	15
50	Integration and Testing of a Three-Axis Accelerometer in a Woven E-Textile Sleeve for Wearable Movement Monitoring. <i>Sensors</i> , 2020, 20, 5033.	3.8	15
51	Clamping effect on the piezoelectric responses of screen-printed low temperature PZT/Polymer films on flexible substrates. <i>Smart Materials and Structures</i> , 2015, 24, 115030.	3.5	13
52	A printed, dry electrode Frank configuration vest for ambulatory vectorcardiographic monitoring. <i>Smart Materials and Structures</i> , 2017, 26, 025029.	3.5	13
53	Smart Textiles for Smart Home Control and Enriching Future Wireless Sensor Network Data. <i>Smart Sensors, Measurement and Instrumentation</i> , 2017, , 159-183.	0.6	13
54	Functional Electronic Screen-printing "Electroluminescent Lamps on Fabric. <i>Procedia Engineering</i> , 2014, 87, 1513-1516.	1.2	12

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55	Stress Analysis and Optimization of a Flip Chip on Flex Electronic Packaging Method for Functional Electronic Textiles. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2018, 8, 186-194.	2.5	12
56	Screen Printed Capacitive Free-standing Cantilever Beams used as a Motion Detector for Wearable Sensors. Procedia Engineering, 2012, 47, 165-169.	1.2	11
57	Fully direct-write dispenser printed dipole antenna on woven polyester cotton fabric for wearable electronics applications. Electronics Letters, 2015, 51, 1306-1308.	1.0	11
58	Automated insertion of package dies onto wire and into a textile yarn sheath. Microsystem Technologies, 2022, 28, 1409-1421.	2.0	9
59	Actively actuated all dispenser printed thermochromic smart fabric device. Electronics Letters, 2016, 52, 1601-1603.	1.0	7
60	Investigation and improvement of the dispenser printing of electrical interconnections for smart fabric applications. Smart Materials and Structures, 2016, 25, 105021.	3.5	7
61	A novel pneumatic dispenser fabrication technique for digitally printing electroluminescent lamps on fabric. , 2015, , .		6
62	Influence of textile structure on the wearability of printed e-textiles. , 2020, , .		6
63	A novel fabrication process to realise piezoelectric cantilever structures for smart fabric sensor applications. , 2012, , .		5
64	Fully direct write dispenser printed sound emitting smart fabrics. Electronics Letters, 2015, 51, 1266-1268.	1.0	5
65	Integration of temperature sensors in fabrics. , 2019, , .		5
66	Investigation of Nozzle Height Control to Improve Dispenser Printing of E-Textiles. Proceedings (mdpi), 2021, 68, .	0.2	5
67	Prototyping a voice-controlled smart home hub wirelessly integrated with a wearable device. , 2015, , .		4
68	Optimisation of a novel direct-write dispenser printer technique for improving printed smart fabric device performance. , 2015, , .		4
69	Effect of infill patterns on print quality of dispenser-printed electronic ink. Electronics Letters, 2015, 51, 1186-1187.	1.0	4
70	Improving the Durability of Screen Printed Conductors on Woven Fabrics for E-Textile Applications. Proceedings (mdpi), 2017, 1, 613.	0.2	4
71	Enabling platform technology for smart fabric design and printing. Journal of Engineered Fibers and Fabrics, 2019, 14, 155892501984590.	1.0	4
72	Autonomy is the key. , 2016, , .		3

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73	Stress Analysis of Flexible Packaging for the Integration of Electronic Components within Woven Textiles. , 2017, , .		3
74	Functional Electronic Textiles: Circuit Integration and Energy Harvesting Power Supplies. , 2018, , .		3
75	An automated process for inclusion of package dies and circuitry within a textile yarn. , 2018, , .		3
76	Energy Harvesting Power Supplies for Electronic Textiles. , 2019, , .		3
77	Screen Printed Free-standing Resonator with Piezoelectric Excitation and Detection on Flexible Substrate. Procedia Engineering, 2014, 87, 947-950.	1.2	2
78	Laser curing of screen and inkjet printed conductors on flexible substrates. , 2015, , .		2
79	Dispenser printed proximity sensor on fabric for creative smart fabric applications. , 2015, , .		2
80	Improving the integration of e-textile microsystems' encapsulation by modifying PDMS formulation.. , 2018, , .		2
81	Finite element analysis (FEA) modelling and experimental verification to optimise flexible electronic packaging for e-textiles. Microsystem Technologies, 2022, 28, 1515-1524.	2.0	2
82	A novel fabrication process to realise a valveless micropump on a flexible substrate. , 2013, , .		1
83	Development of a low temperature PZT/polymer paste for screen printed flexible electronics applications. , 2014, , .		1
84	Screen-printed free-standing piezoelectric devices using low temperature process. , 2015, , .		1
85	The thickness and material optimization of flexible electronic packaging for functional electronic textile. , 2018, , .		1
86	Investigation of the Effects of Ink Pigmentation on Substrate Profiling for E-Textile Dispenser Printing. , 2021, , .		1
87	Effect of textile primer layer on screen printed conductors for e-textiles. , 2021, , .		1
88	Screen Printing Reliable Wearable Microstrip Antennas on Rough Textile Substrates. , 2021, , .		1
89	An all screen-printed free-standing piezoelectric diaphragm for application on textile. , 2018, , .		0
90	Modelling Reliable Electrical Conductors for E-Textile Circuits on Polyimide Filaments. Proceedings (mdpi), 2019, 32, .	0.2	0

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91	Textile Manufacturing Compatible Triboelectric Nanogenerator with Alternating Positive and Negative Freestanding Grating Structure. Proceedings (mdpi), 2020, 32, .	0.2	0
92	Development of a Printed E-Textile for the Measurement of Muscle Activation via EMG for the Purpose of Gesture Control. Proceedings (mdpi), 2021, 68, .	0.2	0
93	E-Textile Haptic Feedback Gloves for Virtual and Augmented Reality Applications. , 2022, 15, .		0
94	Investigating the Mechanical Failures at the Bonded Joints of Screen-Printed E-Textile Circuits. , 2022, 15, .		0
95	Textile Manufacturing Compatible Triboelectric Nanogenerator with Alternating Positive and Negative Woven Structure. , 2022, 15, .		0