Genevieve Dion

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4728641/publications.pdf

Version: 2024-02-01

46 papers	3,807 citations	394421 19 h-index	395702 33 g-index
46 all docs	46 docs citations	46 times ranked	4724 citing authors

#	Article	IF	Citations
1	Knitted and screen printed carbon-fiber supercapacitors for applications in wearable electronics. Energy and Environmental Science, 2013, 6, 2698.	30.8	494
2	Carbon coated textiles for flexible energy storage. Energy and Environmental Science, 2011, 4, 5060.	30.8	486
3	Textile energy storage in perspective. Journal of Materials Chemistry A, 2014, 2, 10776.	10.3	474
4	Electrospun MXene/carbon nanofibers as supercapacitor electrodes. Journal of Materials Chemistry A, 2019, 7, 269-277.	10.3	464
5	MXene Composite and Coaxial Fibers with High Stretchability and Conductivity for Wearable Strain Sensing Textiles. Advanced Functional Materials, 2020, 30, 1910504.	14.9	308
6	Knittable and Washable Multifunctional MXeneâ€Coated Cellulose Yarns. Advanced Functional Materials, 2019, 29, 1905015.	14.9	239
7	Additive-Free MXene Liquid Crystals and Fibers. ACS Central Science, 2020, 6, 254-265.	11.3	182
8	MXeneâ€Based Fibers, Yarns, and Fabrics for Wearable Energy Storage Devices. Advanced Functional Materials, 2020, 30, 2000739.	14.9	168
9	Natural Fiber Welded Electrode Yarns for Knittable Textile Supercapacitors. Advanced Energy Materials, 2015, 5, 1401286.	19.5	152
10	3D knitted energy storage textiles using MXene-coated yarns. Materials Today, 2020, 34, 17-29.	14.2	103
11	On the Use of Knitted Antennas and Inductively Coupled RFID Tags for Wearable Applications. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 1047-1057.	4.0	99
12	Highly conductive and scalable Ti3C2T -coated fabrics for efficient electromagnetic interference shielding. Carbon, 2021, 174, 382-389.	10.3	84
13	Bath Electrospinning of Continuous and Scalable Multifunctional MXeneâ€Infiltrated Nanoyarns. Small, 2020, 16, e2002158.	10.0	81
14	Additiveâ€Free Aqueous MXene Inks for Thermal Inkjet Printing on Textiles. Small, 2021, 17, .	10.0	61
15	On the role of material architecture in the mechanical behavior of knitted textiles. International Journal of Solids and Structures, 2017, 109, 101-111.	2.7	54
16	Effect of electrospinning processing variables on polyacrylonitrile nanoyarns. Journal of Applied Polymer Science, 2018, 135, 46404.	2.6	36
17	Investigation of nanoyarn preparation by modified electrospinning setup. Journal of Applied Polymer Science, 2017, 134, .	2.6	32
18	Passive UHF RFID-Based Knitted Wearable Compression Sensor. IEEE Internet of Things Journal, 2021, 8, 13763-13773.	8.7	32

#	Article	IF	Citations
19	Self-Folding Textiles through Manipulation of Knit Stitch Architecture. Fibers, 2015, 3, 575-587.	4.0	21
20	On implementing an unconventional infant vital signs monitor with passive RFID tags. , 2017, , .		20
21	A Multi-Disciplinary Framework for Continuous Biomedical Monitoring Using Low-Power Passive RFID-Based Wireless Wearable Sensors. , 2016, , .		19
22	An improved design of wearable strain sensor based on knitted RFID technology. , 2016, , .		19
23	Ensemble Learning Approach via Kalman Filtering for a Passive Wearable Respiratory Monitor. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1022-1031.	6.3	19
24	Development of a Carbon Fiber Knitted Capacitive Touch Sensor. MRS Advances, 2016, 1, 2641-2651.	0.9	17
25	Efficiency measurement of the flexible onâ€body antenna at varying levels of stretch in a reverberation chamber. IET Microwaves, Antennas and Propagation, 2020, 14, 154-158.	1.4	17
26	An optimized yarn-level geometric model for Finite Element Analysis of weft-knitted fabrics. Computer Aided Geometric Design, 2020, 80, 101883.	1.2	15
27	On the Effect of Sweat on Sheet Resistance of Knitted Conductive Yarns in Wearable Antenna Design. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 542-546.	4.0	14
28	A Computational Approach to Model Interfacial Effects on the Mechanical Behavior of Knitted Textiles. Journal of Applied Mechanics, Transactions ASME, 2018, 85, .	2.2	13
29	Real-time detection of apnea via signal processing of time-series properties of RFID-based smart garments. , 2016, , .		11
30	Knitted Sensors. , 2020, 4, 1-25.		9
31	Geometric modeling of knitted fabrics using helicoid scaffolds. Journal of Engineered Fibers and Fabrics, 2020, 15, 155892502091387.	1.0	8
32	On the Use of Radio Frequency Identification for Continuous Biomedical Monitoring. , 2017, , .		7
33	Modelling textile structures using bicontinuous surfaces. Journal of Mathematics and the Arts, 2020, 14, 331-344.	0.2	7
34	TopoKnit: A Process-Oriented Representation for Modeling the Topology of Yarns in Weft-Knitted Textiles. Graphical Models, 2021, 118, 101114.	2.4	7
35	Geometric modeling of complex knitting stitches using a bicontinuous surface and its offsets. Computer Aided Geometric Design, 2021, 89, 102024.	1.2	7
36	Wireless strain sensor through a flexible tag antenna employing inductively-coupled RFID microchip. , 2014, , .		6

#	Article	IF	Citations
37	UHF RFID Channel Emulation Testbed for Wireless IoT Systems. IEEE Access, 2021, 9, 68523-68534.	4.2	6
38	Toward Accurate Sensing with Knitted Fabric: Applications and Technical Considerations. Proceedings of the ACM on Human-Computer Interaction, 2020, 4, 1-26.	3.3	4
39	Digital fabrication of textiles: an analysis of electrical networks in 3D knitted functional fabrics. Proceedings of SPIE, 2017, , .	0.8	3
40	Garment Devices: Integrating Energy Storage into Textiles. , 2015, , 658-679.		2
41	Extraction of Knitted RFID Antenna Design Parameter from Transmission Line Measurements. , 2020, , .		2
42	Loop Order Analysis of Weft-Knitted Textiles. Textiles, 2022, 2, 275-295.	4.1	2
43	An Adaptively Parameterized Algorithm Estimating Respiratory Rate from a Passive Wearable RFID Smart Garment. , 2021, 2021, 774-784.		1
44	Interaction with Touch-Sensitive Knitted Fabrics: User Perceptions and Everyday Use Experiments. , 2022, , .		1
45	Characterizing and predicting the self-folding behavior of weft-knit fabrics. Textile Reseach Journal, 0, , 004051752210996.	2.2	1
46	Wearable Smart Garment Devices for Passive Biomedical Monitoring. , 2021, , 85-128.		0