

Genevieve Dion

List of Publications by Year in descending order

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46
papers

3,807
citations

393982

19
h-index

395343

33
g-index

46
all docs

46
docs citations

46
times ranked

4724
citing authors

#	ARTICLE	IF	CITATIONS
1	Interaction with Touch-Sensitive Knitted Fabrics: User Perceptions and Everyday Use Experiments. , 2022, , .		1
2	Loop Order Analysis of Weft-Knitted Textiles. Textiles, 2022, 2, 275-295.	1.8	2
3	Additive-Free Aqueous MXene Inks for Thermal Inkjet Printing on Textiles. Small, 2021, 17, .	5.2	61
4	Highly conductive and scalable Ti3C2T ₂ -coated fabrics for efficient electromagnetic interference shielding. Carbon, 2021, 174, 382-389.	5.4	84
5	UHF RFID Channel Emulation Testbed for Wireless IoT Systems. IEEE Access, 2021, 9, 68523-68534.	2.6	6
6	An Adaptively Parameterized Algorithm Estimating Respiratory Rate from a Passive Wearable RFID Smart Garment. , 2021, 2021, 774-784.		1
7	TopoKnit: A Process-Oriented Representation for Modeling the Topology of Yarns in Weft-Knitted Textiles. Graphical Models, 2021, 118, 101114.	1.1	7
8	Geometric modeling of complex knitting stitches using a bicontinuous surface and its offsets. Computer Aided Geometric Design, 2021, 89, 102024.	0.5	7
9	Passive UHF RFID-Based Knitted Wearable Compression Sensor. IEEE Internet of Things Journal, 2021, 8, 13763-13773.	5.5	32
10	Wearable Smart Garment Devices for Passive Biomedical Monitoring. , 2021, , 85-128.		0
11	Geometric modeling of knitted fabrics using helicoid scaffolds. Journal of Engineered Fibers and Fabrics, 2020, 15, 155892502091387.	0.5	8
12	Modelling textile structures using bicontinuous surfaces. Journal of Mathematics and the Arts, 2020, 14, 331-344.	0.1	7
13	Efficiency measurement of the flexible on-body antenna at varying levels of stretch in a reverberation chamber. IET Microwaves, Antennas and Propagation, 2020, 14, 154-158.	0.7	17
14	MXene-Based Fibers, Yarns, and Fabrics for Wearable Energy Storage Devices. Advanced Functional Materials, 2020, 30, 2000739.	7.8	168
15	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.	2.4	14
16	Bath Electrospinning of Continuous and Scalable Multifunctional MXene-Infiltrated Nanoyarns. Small, 2020, 16, e2002158.	5.2	81
17	3D knitted energy storage textiles using MXene-coated yarns. Materials Today, 2020, 34, 17-29.	8.3	103
18	Additive-Free MXene Liquid Crystals and Fibers. ACS Central Science, 2020, 6, 254-265.	5.3	182

#	ARTICLE	IF	CITATIONS
19	MXene Composite and Coaxial Fibers with High Stretchability and Conductivity for Wearable Strain Sensing Textiles. <i>Advanced Functional Materials</i> , 2020, 30, 1910504.	7.8	308
20	An optimized yarn-level geometric model for Finite Element Analysis of weft-knitted fabrics. <i>Computer Aided Geometric Design</i> , 2020, 80, 101883.	0.5	15
21	Toward Accurate Sensing with Knitted Fabric: Applications and Technical Considerations. <i>Proceedings of the ACM on Human-Computer Interaction</i> , 2020, 4, 1-26.	2.5	4
22	Knitted Sensors. , 2020, 4, 1-25.		9
23	Extraction of Knitted RFID Antenna Design Parameter from Transmission Line Measurements. , 2020, , .		2
24	Ensemble Learning Approach via Kalman Filtering for a Passive Wearable Respiratory Monitor. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019, 23, 1022-1031.	3.9	19
25	Knittable and Washable Multifunctional MXene-Coated Cellulose Yarns. <i>Advanced Functional Materials</i> , 2019, 29, 1905015.	7.8	239
26	Electrospun MXene/carbon nanofibers as supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 269-277.	5.2	464
27	Effect of electrospinning processing variables on polyacrylonitrile nanoyarns. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46404.	1.3	36
28	A Computational Approach to Model Interfacial Effects on the Mechanical Behavior of Knitted Textiles. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2018, 85, .	1.1	13
29	On the role of material architecture in the mechanical behavior of knitted textiles. <i>International Journal of Solids and Structures</i> , 2017, 109, 101-111.	1.3	54
30	Investigation of nanoyarn preparation by modified electrospinning setup. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	32
31	On the Use of Radio Frequency Identification for Continuous Biomedical Monitoring. , 2017, , .		7
32	Digital fabrication of textiles: an analysis of electrical networks in 3D knitted functional fabrics. <i>Proceedings of SPIE</i> , 2017, , .	0.8	3
33	On implementing an unconventional infant vital signs monitor with passive RFID tags. , 2017, , .		20
34	A Multi-Disciplinary Framework for Continuous Biomedical Monitoring Using Low-Power Passive RFID-Based Wireless Wearable Sensors. , 2016, , .		19
35	Real-time detection of apnea via signal processing of time-series properties of RFID-based smart garments. , 2016, , .		11
36	Development of a Carbon Fiber Knitted Capacitive Touch Sensor. <i>MRS Advances</i> , 2016, 1, 2641-2651.	0.5	17

#	ARTICLE	IF	CITATIONS
37	An improved design of wearable strain sensor based on knitted RFID technology. , 2016, , .		19
38	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.	2.7	99
39	Garment Devices: Integrating Energy Storage into Textiles. , 2015, , 658-679.		2
40	Self-Folding Textiles through Manipulation of Knit Stitch Architecture. Fibers, 2015, 3, 575-587.	1.8	21
41	Natural Fiber Welded Electrode Yarns for Knittable Textile Supercapacitors. Advanced Energy Materials, 2015, 5, 1401286.	10.2	152
42	Wireless strain sensor through a flexible tag antenna employing inductively-coupled RFID microchip. , 2014, , .		6
43	Textile energy storage in perspective. Journal of Materials Chemistry A, 2014, 2, 10776.	5.2	474
44	Knitted and screen printed carbon-fiber supercapacitors for applications in wearable electronics. Energy and Environmental Science, 2013, 6, 2698.	15.6	494
45	Carbon coated textiles for flexible energy storage. Energy and Environmental Science, 2011, 4, 5060.	15.6	486
46	Characterizing and predicting the self-folding behavior of weft-knit fabrics. Textile Research Journal, 0, , 004051752210996.	1.1	1