

Debra Carr

List of Publications by Year in descending order

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Version: 2024-02-01

104
papers

1,711
citations

331538

21
h-index

360920

35
g-index

118
all docs

118
docs citations

118
times ranked

1015
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling of the energy absorption by polymer composites upon ballistic impact. <i>Composites Science and Technology</i> , 2000, 60, 2631-2642.	3.8	266
2	Failure Mechanisms of Yarns Subjected to Ballistic Impact. <i>Journal of Materials Science Letters</i> , 1999, 18, 585-588.	0.5	78
3	Forensic evidence in apparel fabrics due to stab events. <i>Forensic Science International</i> , 2009, 191, 86-96.	1.3	61
4	Standardizing a Pre-treatment Cleaning Procedure and Effects of Application on Apparel Fabrics. <i>Textile Research Journal</i> , 2006, 76, 455-464.	1.1	52
5	Fibers from Three Cultivars of New Zealand Flax (<i>Phormium tenax</i>). <i>Textile Research Journal</i> , 2005, 75, 93-98.	1.1	51
6	A comparison of the properties of hot compacted gel-spun polyethylene fibre composites with conventional gel-spun polyethylene fibre composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 1999, 30, 649-660.	3.8	49
7	The use of gelatine in wound ballistics research. <i>International Journal of Legal Medicine</i> , 2018, 132, 1659-1664.	1.2	48
8	Is behind armour blunt trauma a real threat to users of body armour? A systematic review. <i>Journal of the Royal Army Medical Corps</i> , 2016, 162, 8-11.	0.8	35
9	Systematic investigation of drip stains on apparel fabrics: The effects of prior-laundrying, fibre content and fabric structure on final stain appearance. <i>Forensic Science International</i> , 2015, 250, 98-109.	1.3	33
10	Interpreting the formation of bloodstains on selected apparel fabrics. <i>International Journal of Legal Medicine</i> , 2013, 127, 251-258.	1.2	30
11	Injury to recreational and professional cricket players: Circumstances, type and potential for intervention. <i>Accident Analysis and Prevention</i> , 2010, 42, 2094-2098.	3.0	28
12	Development of a skull/brain model for military wound ballistics studies. <i>International Journal of Legal Medicine</i> , 2015, 129, 505-510.	1.2	27
13	Comparison of porcine thorax to gelatine blocks for wound ballistics studies. <i>International Journal of Legal Medicine</i> , 2016, 130, 1353-1362.	1.2	27
14	Variability of simulants used in recreating stab events. <i>Forensic Science International</i> , 2011, 210, 42-46.	1.3	25
15	Damage to apparel layers and underlying tissue due to hand-gun bullets. <i>International Journal of Legal Medicine</i> , 2014, 128, 83-93.	1.2	25
16	Clothing increases the risk of indirect ballistic fractures. <i>Journal of Orthopaedic Surgery and Research</i> , 2013, 8, 42.	0.9	24
17	Air and Air Spaces – the Invisible Addition to Thermal Resistance. <i>Journal of the Human-Environment System</i> , 2002, 5, 69-77.	0.2	24
18	Structural Differences among Fibers from Six Cultivars of Harakeke (<i>Phormium tenax</i> , New Zealand) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i>	1.1	23

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19	Effect of laundering on blunt force impact damage in fabrics. <i>Forensic Science International</i> , 2010, 197, 21-29.	1.3	23
20	Ballistic impacts on an anatomically correct synthetic skull with a surrogate skin/soft tissue layer. <i>International Journal of Legal Medicine</i> , 2018, 132, 519-530.	1.2	23
21	Refrigeration and freezing of porcine tissue does not affect the retardation of fragment simulating projectiles. <i>Journal of Clinical Forensic and Legal Medicine</i> , 2015, 32, 77-83.	0.5	22
22	Identification of selected vegetable textile fibres. <i>Studies in Conservation</i> , 2008, 53, 75-87.	0.6	21
23	The effect of fabric and stabbing variables on severance appearance. <i>Forensic Science International</i> , 2015, 249, 214-224.	1.3	21
24	Early spears as thrusting weapons: Isolating force and impact velocities in human performance trials. <i>Journal of Archaeological Science: Reports</i> , 2016, 10, 191-203.	0.2	21
25	Skin and skin simulants. <i>Australian Journal of Forensic Sciences</i> , 2020, 52, 96-106.	0.7	20
26	Tensile Performance of Nonsterile Suture Monofilaments Affected by Test Conditions. <i>Textile Research Journal</i> , 2004, 74, 83-90.	1.1	19
27	Protecting the extremities of military personnel: fragment protective performance of one- and two-layer ensembles. <i>Textile Research Journal</i> , 2012, 82, 1295-1303.	1.1	19
28	Does preliminary optimisation of an anatomically correct skull-brain model using simple simulants produce clinically realistic ballistic injury fracture patterns?. <i>International Journal of Legal Medicine</i> , 2017, 131, 1043-1053.	1.2	19
29	Drip bloodstain appearance on inclined apparel fabrics: Effect of prior-laundering, fibre content and fabric structure. <i>Forensic Science International</i> , 2016, 266, 488-501.	1.3	17
30	The effect of helmet materials and simulated bone and tissue layers on bullet behaviour in a gelatine model of overmatch penetrating head injury. <i>International Journal of Legal Medicine</i> , 2017, 131, 1765-1776.	1.2	17
31	Physical and mechanical degradation of shirting fabrics in burial conditions. <i>Forensic Science International</i> , 2012, 222, 94-101.	1.3	16
32	Tensile properties of military chin-strap webbing. <i>Textile Research Journal</i> , 2014, 84, 655-661.	1.1	16
33	Methods for characterizing plant fibers. <i>Microscopy Research and Technique</i> , 2005, 67, 260-264.	1.2	14
34	Degradation of military body armor due to wear: Laboratory testing. <i>Textile Research Journal</i> , 2012, 82, 1157-1163.	1.1	14
35	The use of micro computed tomography to ascertain the morphology of bloodstains on fabric. <i>Forensic Science International</i> , 2015, 257, 369-375.	1.3	14
36	Gunshot induced indirect femoral fracture: mechanism of injury and fracture morphology. <i>Journal of the Royal Army Medical Corps</i> , 2013, 159, 294-299.	0.8	13

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37	A systematic review of military head injuries. <i>Journal of the Royal Army Medical Corps</i> , 2017, 163, 13-19.	0.8	13
38	The burden of gunshot wounding of UK military personnel in Iraq and Afghanistan from 2003â€“14. <i>Injury</i> , 2018, 49, 1064-1069.	0.7	13
39	Forensic reconstruction of two military combat related shooting incidents using an anatomically correct synthetic skull with a surrogate skin/soft tissue layer. <i>International Journal of Legal Medicine</i> , 2019, 133, 151-162.	1.2	13
40	Measuring the strength of knotted suture materials. <i>Journal of the Textile Institute</i> , 2009, 100, 51-56.	1.0	12
41	Tearing of knicker fabrics. <i>Forensic Science International</i> , 2012, 217, 93-100.	1.3	12
42	Effect of domestic laundering on the fragment protective performance of fabrics used in personal protection. <i>Textile Reseach Journal</i> , 2014, 84, 1298-1306.	1.1	12
43	Personal armor. , 2016, , 217-229.		12
44	Storage life of whole porcine blood used for bloodstain pattern analysis. <i>Journal of the Canadian Society of Forensic Science</i> , 2016, 49, 26-37.	0.7	12
45	The effect of breast size and bra type on comfort for UK female police officers wearing body armour. <i>Applied Ergonomics</i> , 2020, 84, 103012.	1.7	12
46	Does quilting improve the fragment protective performance of body armour?. <i>Textile Reseach Journal</i> , 2012, 82, 883-888.	1.1	11
47	Remote ballistic fractures in a gelatine model - aetiology and surgical implications. <i>Journal of Orthopaedic Surgery and Research</i> , 2013, 8, 15.	0.9	11
48	A pilot study examining garment severance damage caused by a trained sharp-weapon user. <i>Textile Reseach Journal</i> , 2017, 87, 1287-1296.	1.1	11
49	The effect of military clothing on gunshot wounding patterns in gelatine. <i>International Journal of Legal Medicine</i> , 2019, 133, 1121-1131.	1.2	11
50	Effect of laundering on visible damage to apparel fabric caused by sharp force impact. <i>Forensic Science International</i> , 2013, 233, 283-287.	1.3	10
51	The effect of fabric mass per unit area and blood impact velocity on bloodstain morphology. <i>Forensic Science International</i> , 2019, 301, 12-27.	1.3	10
52	Pretibial Injury: Key Factors and Their Use in Developing Laboratory Test Methods. <i>International Journal of Lower Extremity Wounds</i> , 2008, 7, 220-234.	0.6	9
53	A preliminary study into injuries due to non-perforating ballistic impacts into soft body armour over the spine. <i>Injury</i> , 2018, 49, 1251-1257.	0.7	9
54	Approaches for Conservators to the Identification of Plant Material used in MÄori Artefacts. <i>Studies in Conservation</i> , 2008, 53, 252-263.	0.6	8

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55	Identifying the source of bullet wipe: a randomised blind trial. <i>International Journal of Legal Medicine</i> , 2013, 127, 951-955.	1.2	8
56	Ballistic research techniques: visualizing gunshot wounding patterns. <i>International Journal of Legal Medicine</i> , 2020, 134, 1103-1114.	1.2	8
57	The ballistic performance of bone when impacted by fragments. <i>International Journal of Legal Medicine</i> , 2020, 134, 1387-1393.	1.2	8
58	An integrated approach towards future ballistic neck protection materials selection. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2013, 227, 581-587.	1.0	7
59	Do air-gaps behind soft body armour affect protection?. <i>Journal of the Royal Army Medical Corps</i> , 2018, 164, 15-18.	0.8	7
60	Assessment of polyurethane spheres as surrogates for military ballistic head injury. <i>International Journal of Legal Medicine</i> , 2019, 133, 163-167.	1.2	7
61	Personal Armour Used by UK Armed Forces and UK Police Forces. , 2017, , 47-62.		7
62	Thermal analysis of new, artificially aged and archival linen. <i>Journal of Thermal Analysis and Calorimetry</i> , 2003, 73, 97-104.	2.0	6
63	Consultation, collaboration and dissemination. <i>Journal of the Royal Society of New Zealand</i> , 2009, 39, 225-228.	1.0	6
64	Fibres, Yarns and Fabrics. , 2017, , 3-14.		6
65	Preliminary development of a bleeding layer to assess the effect of a ballistic impact on textile damage. <i>Forensic Science International</i> , 2018, 288, 169-172.	1.3	6
66	Towards developing a test method for military pelvic protection. <i>Journal of the Textile Institute</i> , 2018, 109, 1374-1380.	1.0	6
67	The effect of military clothing on gunshot wound patterns in a cadaveric animal limb model. <i>International Journal of Legal Medicine</i> , 2019, 133, 1825-1833.	1.2	6
68	Selected mechanical properties of sisal aggregates (<i>Agave sisalana</i>). <i>Journal of Materials Science</i> , 2006, 41, 511-515.	1.7	5
69	Turuturu: Integrating Indigenous and Western Knowledge. <i>AlterNative</i> , 2009, 5, 88-107.	0.7	5
70	The New Zealand Flax Fibre Industry. <i>Textile History</i> , 2009, 40, 103-111.	0.2	5
71	Edged weapons awareness. <i>International Journal of Legal Medicine</i> , 2019, 133, 1217-1224.	1.2	5
72	Effects of police body armour on overmatching ballistic injury. <i>International Journal of Legal Medicine</i> , 2020, 134, 583-590.	1.2	5

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73	Helicopter main rotor blade injury to the head with survival. Journal of the Royal Army Medical Corps, 1997, 143, 122-123.	0.8	4
74	Development of a laboratory test for knicker tearing re-creation studies. Forensic Science International, 2016, 262, 138-142.	1.3	4
75	Ballistic Damage. , 2017, , 181-199.		4
76	The ballistics of seventeenth century musket balls. Journal of Conflict Archaeology, 2019, 14, 25-36.	0.2	4
77	Investigating bloodstain dynamics at impact on the technical rear of fabric. Forensic Science International, 2019, 301, 142-148.	1.3	4
78	UK military helmet design and test methods. BMJ Military Health, 2020, 166, 342-346.	0.4	4
79	Is protection part of the game? Protection against impact using clothing and personal equipment. , 2005, , 233-261.		3
80	Preliminary study into the skeletal injuries sustained to the spine from posterior non-perforating ballistic impacts into body armour. Journal of the Royal Army Medical Corps, 2018, 164, 186-190.	0.8	3
81	Shooting through windscreens: ballistic injury assessment using a surrogate head model—two case reports. International Journal of Legal Medicine, 2020, 134, 1409-1417.	1.2	3
82	Preliminary effect of projectile yaw on extremity gunshot wounding in a cadaveric animal model: a serendipitous study. International Journal of Legal Medicine, 2020, 134, 1149-1157.	1.2	3
83	Tensile Properties of Silk from Endemic New Zealand Spiders. Textile Reseach Journal, 2006, 76, 928-935.	1.1	2
84	Variation in epicuticular wax morphology on <i>Phormium tenax</i> leaves as a possible indicator of cultivar identification. New Zealand Journal of Botany, 2009, 47, 149-153.	0.8	2
85	Security of Bolted Joints during Explosive Loading. International Journal of Vehicle Structures and Systems, 2011, 3, .	0.1	2
86	Integrating Indigenous Knowledge and Western Science for Developing Culturally Sustainable Resources. Journal of Natural Fibers, 2012, 9, 168-179.	1.7	2
87	Physical Models: Tissue Simulants. , 2016, , 145-153.		2
88	Fabrics and composites for ballistic protection. , 2016, , 109-119.		2
89	Investigating the use of concealable and disguised knives. The Police Journal: A Quarterly Review for the Police Forces of the Commonwealth and English-speaking World, 2018, 91, 139-149.	1.1	2
90	Performance of police personal protective equipment challenged with a military grenade. The Police Journal: A Quarterly Review for the Police Forces of the Commonwealth and English-speaking World, 2019, 92, 191-202.	1.1	2

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91	Ballistic protective properties of material representative of English civil war buff-coats and clothing. International Journal of Legal Medicine, 2020, 134, 1949-1956.	1.2	2
92	The effect of underwired and sports bras on breast shape, key anthropometric dimensions, and body armour comfort. The Police Journal: A Quarterly Review for the Police Forces of the Commonwealth and English-speaking World, 2022, 95, 436-458.	1.1	2
93	Ballistic Threats and Body Armour Design. , 2017, , 5-18.		2
94	Victimâ€™s Posture and Protective Clothing Changes the Approach in an Edged-Weapon Attack. , 0, , .		2
95	The Protective Performance of Selected UK Police Body Armor Challenged by m75 Grenades. , 0, , .		2
96	High performance fabrics and 3DÂmaterials. , 2016, , 41-53.		1
97	Energised Fragments, Bullets and Fragment Simulating Projectiles. , 2016, , 219-226.		1
98	Angled shots onto body armour using 9â€mm ammunition: the effect on potential blunt injury. Journal of the Royal Army Medical Corps, 2017, 163, 35-38.	0.8	1
99	Effect of ballistic impacts on batteries and the potential for injury. BMJ Military Health, 2020, 166, 330-335.	0.4	1
100	The Effect of Clothing on Gunshot Wounds in Gelatine: The Naked Truth. , 0, , .		1
101	Extended Abstract - Comparison of Backing Materials Used in the Testing of Ballistic Body Armour. , 0, , .		1
102	Effects of salt water on the ballistic protective performance of bullet-resistant body armour. The Police Journal: A Quarterly Review for the Police Forces of the Commonwealth and English-speaking World, 2019, 92, 264-273.	1.1	0
103	Woven Fabrics in Book Conservation: An Investigation into the Properties of Aerolinen and Aerocotton. Studies in Conservation, 2020, 65, 375-387.	0.6	0
104	The effect of reactive dyeing of fabric on the morphology of passive bloodstains. Forensic Science International, 2022, 336, 111317.	1.3	0