

# Debra Carr

## List of Publications by Citations

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109  
papers

1,279  
citations

19  
h-index

30  
g-index

118  
ext. papers

1,483  
ext. citations

2.2  
avg. IF

4.56  
L-index

#	Paper	IF	Citations
109	Modelling of the energy absorption by polymer composites upon ballistic impact. <i>Composites Science and Technology</i> , <b>2000</b> , 60, 2631-2642	8.6	210
108	Failure Mechanisms of Yarns Subjected to Ballistic Impact <b>1999</b> , 18, 585-588		62
107	Forensic evidence in apparel fabrics due to stab events. <i>Forensic Science International</i> , <b>2009</b> , 191, 86-96	2.6	51
106	Fibers from Three Cultivars of New Zealand Flax ( <i>Phormium tenax</i> ). <i>Textile Reseach Journal</i> , <b>2005</b> , 75, 93-98	1.7	41
105	Standardizing a Pre-treatment Cleaning Procedure and Effects of Application on Apparel Fabrics. <i>Textile Reseach Journal</i> , <b>2006</b> , 76, 455-464	1.7	40
104	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> , <b>1999</b> , 30, 649-660	8.4	35
103	Systematic investigation of drip stains on apparel fabrics: The effects of prior-laundering, fibre content and fabric structure on final stain appearance. <i>Forensic Science International</i> , <b>2015</b> , 250, 98-109	2.6	29
102	Interpreting the formation of bloodstains on selected apparel fabrics. <i>International Journal of Legal Medicine</i> , <b>2013</b> , 127, 251-8	3.1	29
101	The use of gelatine in wound ballistics research. <i>International Journal of Legal Medicine</i> , <b>2018</b> , 132, 1659-1664	3.664	28
100	Development of a skull/brain model for military wound ballistics studies. <i>International Journal of Legal Medicine</i> , <b>2015</b> , 129, 505-10	3.1	21
99	Variability of simulants used in recreating stab events. <i>Forensic Science International</i> , <b>2011</b> , 210, 42-6	2.6	21
98	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> , <b>2016</b> , 162, 8-11	0.8	20
97	Comparison of porcine thorax to gelatine blocks for wound ballistics studies. <i>International Journal of Legal Medicine</i> , <b>2016</b> , 130, 1353-62	3.1	20
96	Damage to apparel layers and underlying tissue due to hand-gun bullets. <i>International Journal of Legal Medicine</i> , <b>2014</b> , 128, 83-93	3.1	20
95	Effect of laundering on blunt force impact damage in fabrics. <i>Forensic Science International</i> , <b>2010</b> , 197, 21-9	2.6	20
94	The effect of fabric and stabbing variables on severance appearance. <i>Forensic Science International</i> , <b>2015</b> , 249, 214-24	2.6	19
93	Clothing increases the risk of indirect ballistic fractures. <i>Journal of Orthopaedic Surgery and Research</i> , <b>2013</b> , 8, 42	2.8	19

92	Structural Differences among Fibers from Six Cultivars of Harakeke (Phormium tenax, New Zealand flax). <i>Textile Reseach Journal</i> , <b>2006</b> , 76, 601-606	1.7	19
91	Injury to recreational and professional cricket players: circumstances, type and potential for intervention. <i>Accident Analysis and Prevention</i> , <b>2010</b> , 42, 2094-8	6.1	18
90	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> , <b>2017</b> , 131, 1043-1053	3.1	17
89	Ballistic impacts on an anatomically correct synthetic skull with a surrogate skin/soft tissue layer. <i>International Journal of Legal Medicine</i> , <b>2018</b> , 132, 519-530	3.1	17
88	Refrigeration and freezing of porcine tissue does not affect the retardation of fragment simulating projectiles. <i>Journal of Clinical Forensic and Legal Medicine</i> , <b>2015</b> , 32, 77-83	1.7	16
87	Protecting the extremities of military personnel: fragment protective performance of one- and two-layer ensembles. <i>Textile Reseach Journal</i> , <b>2012</b> , 82, 1295-1303	1.7	16
86	Air and Air SpacesThe Invisible Addition to Thermal Resistance. <i>Journal of the Human-Environment System</i> , <b>2002</b> , 5, 69-77	0.4	16
85	Early spears as thrusting weapons: Isolating force and impact velocities in human performance trials. <i>Journal of Archaeological Science: Reports</i> , <b>2016</b> , 10, 191-203	0.7	16
84	Drip bloodstain appearance on inclined apparel fabrics: Effect of prior-laundering, fibre content and fabric structure. <i>Forensic Science International</i> , <b>2016</b> , 266, 488-501	2.6	15
83	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> , <b>2017</b> , 131, 1765-1776	3.1	15
82	Tensile Performance of Nonsterile Suture Monofilaments Affected by Test Conditions. <i>Textile Reseach Journal</i> , <b>2004</b> , 74, 83-90	1.7	14
81	Identification of selected vegetable textile fibres. <i>Studies in Conservation</i> , <b>2008</b> , 53, 75-87	0.6	13
80	Methods for characterizing plant fibers. <i>Microscopy Research and Technique</i> , <b>2005</b> , 67, 260-4	2.8	13
79	Physical and mechanical degradation of shirting fabrics in burial conditions. <i>Forensic Science International</i> , <b>2012</b> , 222, 94-101	2.6	12
78	Tensile properties of military chin-strap webbing. <i>Textile Reseach Journal</i> , <b>2014</b> , 84, 655-661	1.7	11
77	The use of micro computed tomography to ascertain the morphology of bloodstains on fabric. <i>Forensic Science International</i> , <b>2015</b> , 257, 369-375	2.6	10
76	The burden of gunshot wounding of UK military personnel in Iraq and Afghanistan from 2003-14. <i>Injury</i> , <b>2018</b> , 49, 1064-1069	2.5	10
75	Storage life of whole porcine blood used for bloodstain pattern analysis. <i>Journal of the Canadian Society of Forensic Science</i> , <b>2016</b> , 49, 26-37	0.5	10

74	Effect of laundering on visible damage to apparel fabric caused by sharp force impact. <i>Forensic Science International</i> , <b>2013</b> , 233, 283-7	2.6	10
73	Tearing of knicker fabrics. <i>Forensic Science International</i> , <b>2012</b> , 217, 93-100	2.6	10
72	Gunshot induced indirect femoral fracture: mechanism of injury and fracture morphology. <i>Journal of the Royal Army Medical Corps</i> , <b>2013</b> , 159, 294-9	0.8	10
71	Measuring the strength of knotted suture materials. <i>Journal of the Textile Institute</i> , <b>2009</b> , 100, 51-56	1.5	10
70	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> , <b>2019</b> , 133, 151-162	3.1	10
69	A systematic review of military head injuries. <i>Journal of the Royal Army Medical Corps</i> , <b>2017</b> , 163, 13-19	0.8	9
68	Remote ballistic fractures in a gelatine model--aetiology and surgical implications. <i>Journal of Orthopaedic Surgery and Research</i> , <b>2013</b> , 8, 15	2.8	9
67	Effect of domestic laundering on the fragment protective performance of fabrics used in personal protection. <i>Textile Reseach Journal</i> , <b>2014</b> , 84, 1298-1306	1.7	9
66	Degradation of military body armor due to wear: Laboratory testing. <i>Textile Reseach Journal</i> , <b>2012</b> , 82, 1157-1163	1.7	9
65	Skin and skin simulants. <i>Australian Journal of Forensic Sciences</i> , <b>2020</b> , 52, 96-106	1.1	9
64	<b>2012</b> ,		9
63	A pilot study examining garment severance damage caused by a trained sharp-weapon user. <i>Textile Reseach Journal</i> , <b>2017</b> , 87, 1287-1296	1.7	8
62	Personal armor <b>2016</b> , 217-229		8
61	The effect of fabric mass per unit area and blood impact velocity on bloodstain morphology. <i>Forensic Science International</i> , <b>2019</b> , 301, 12-27	2.6	7
60	Identifying the source of bullet wipe: a randomised blind trial. <i>International Journal of Legal Medicine</i> , <b>2013</b> , 127, 951-5	3.1	7
59	Does quilting improve the fragment protective performance of body armour?. <i>Textile Reseach Journal</i> , <b>2012</b> , 82, 883-888	1.7	7
58	Pretibial injury: key factors and their use in developing laboratory test methods. <i>International Journal of Lower Extremity Wounds</i> , <b>2008</b> , 7, 220-34	1.6	7
57	Ballistic research techniques: visualizing gunshot wounding patterns. <i>International Journal of Legal Medicine</i> , <b>2020</b> , 134, 1103-1114	3.1	6

56	Consultation, collaboration and dissemination. <i>Journal of the Royal Society of New Zealand</i> , <b>2009</b> , 39, 225-228	2	6
55	Thermal analysis of new, artificially aged and archival linen. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2003</b> , 73, 97-104	4.1	6
54	Personal Armour Used by UK Armed Forces and UK Police Forces <b>2017</b> , 47-62		6
53	The effect of military clothing on gunshot wounding patterns in gelatine. <i>International Journal of Legal Medicine</i> , <b>2019</b> , 133, 1121-1131	3.1	6
52	Preliminary development of a bleeding layer to assess the effect of a ballistic impact on textile damage. <i>Forensic Science International</i> , <b>2018</b> , 288, 169-172	2.6	5
51	Approaches for Conservators to the Identification of Plant Material used in Māori Artefacts. <i>Studies in Conservation</i> , <b>2008</b> , 53, 252-263	0.6	5
50	Selected mechanical properties of sisal aggregates (Agava sisalana). <i>Journal of Materials Science</i> , <b>2006</b> , 41, 511-515	4.3	5
49	Assessment of polyurethane spheres as surrogates for military ballistic head injury. <i>International Journal of Legal Medicine</i> , <b>2019</b> , 133, 163-167	3.1	5
48	The effect of military clothing on gunshot wound patterns in a cadaveric animal limb model. <i>International Journal of Legal Medicine</i> , <b>2019</b> , 133, 1825-1833	3.1	4
47	Investigating bloodstain dynamics at impact on the technical rear of fabric. <i>Forensic Science International</i> , <b>2019</b> , 301, 142-148	2.6	4
46	Do air-gaps behind soft body armour affect protection?. <i>Journal of the Royal Army Medical Corps</i> , <b>2018</b> , 164, 15-18	0.8	4
45	Identification of historical plant material using micro-computed tomography. <i>Studies in Conservation</i> , <b>2013</b> , 58, 256-268	0.6	4
44	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> , <b>2013</b> , 227, 581-7	1.7	4
43	Turuturu: Integrating Indigenous and Western Knowledge. <i>AlterNative</i> , <b>2009</b> , 5, 88-107	1	4
42	Helicopter main rotor blade injury to the head with survival. <i>Journal of the Royal Army Medical Corps</i> , <b>1997</b> , 143, 122-3	0.8	4
41	The effect of breast size and bra type on comfort for UK female police officers wearing body armour. <i>Applied Ergonomics</i> , <b>2020</b> , 84, 103012	4.2	4
40	The ballistic performance of bone when impacted by fragments. <i>International Journal of Legal Medicine</i> , <b>2020</b> , 134, 1387-1393	3.1	3
39	Fibres, Yarns and Fabrics <b>2017</b> , 3-14		3

38	A preliminary study into injuries due to non-perforating ballistic impacts into soft body armour over the spine. <i>Injury</i> , <b>2018</b> , 49, 1251-1257	2.5	3
37	Effects of police body armour on overmatching ballistic injury. <i>International Journal of Legal Medicine</i> , <b>2020</b> , 134, 583-590	3.1	3
36	UK military helmet design and test methods. <i>BMJ Military Health</i> , <b>2020</b> , 166, 342-346	1	3
35	Towards developing a test method for military pelvic protection*. <i>Journal of the Textile Institute</i> , <b>2018</b> , 109, 1374-1380	1.5	3
34	Biomechanics of Bone and Bony Trauma35-69		3
33	Preliminary effect of projectile yaw on extremity gunshot wounding in a cadaveric animal model: a serendipitous study. <i>International Journal of Legal Medicine</i> , <b>2020</b> , 134, 1149-1157	3.1	2
32	Preliminary study into the skeletal injuries sustained to the spine from posterior non-perforating ballistic impacts into body armour. <i>Journal of the Royal Army Medical Corps</i> , <b>2018</b> , 164, 186-190	0.8	2
31	The ballistics of seventeenth century musket balls. <i>Journal of Conflict Archaeology</i> , <b>2019</b> , 14, 25-36	0.2	2
30	The New Zealand Flax Fibre Industry. <i>Textile History</i> , <b>2009</b> , 40, 103-111	0	2
29	Victim Posture and Protective Clothing Changes the Approach in an Edged-Weapon Attack		2
28	The Protective Performance of Selected UK Police Body Armor Challenged by m75 Grenades		2
27	Development of a laboratory test for knicker tearing re-creation studies. <i>Forensic Science International</i> , <b>2016</b> , 262, 138-42	2.6	2
26	Investigating the use of concealable and disguised knives. <i>The Police Journal: A Quarterly Review for the Police Forces of the Commonwealth and English-speaking World</i> , <b>2018</b> , 91, 139-149	0.9	1
25	Angled shots onto body armour using 9 mm ammunition: the effect on potential blunt injury. <i>Journal of the Royal Army Medical Corps</i> , <b>2017</b> , 163, 35-38	0.8	1
24	Ballistic Damage <b>2017</b> , 181-199		1
23	Security of Bolted Joints during Explosive Loading. <i>International Journal of Vehicle Structures and Systems</i> , <b>2011</b> , 3,	2.1	1
22	Variation in epicuticular wax morphology on Phormium tenax leaves as a possible indicator of cultivar identification. <i>New Zealand Journal of Botany</i> , <b>2009</b> , 47, 149-153	1	1
21	Tensile Properties of Silk from Endemic New Zealand Spiders. <i>Textile Reseach Journal</i> , <b>2006</b> , 76, 928-935	1.7	1

20	Is protection part of the game? Protection against impact using clothing and personal equipment <b>2005</b> , 233-261		1
19	Ballistic Threats and Body Armour Design <b>2017</b> , 5-18		1
18	Biomechanics of Skin and Soft Tissue Trauma71-97		1
17	Shooting through windscreens: ballistic injury assessment using a surrogate head model-two case reports. <i>International Journal of Legal Medicine</i> , <b>2020</b> , 134, 1409-1417	3.1	1
16	Edged weapons awareness. <i>International Journal of Legal Medicine</i> , <b>2019</b> , 133, 1217-1224	3.1	1
15	Effect of ballistic impacts on batteries and the potential for injury. <i>BMJ Military Health</i> , <b>2020</b> , 166, 330-335		1
14	Fabrics and composites for ballistic protection <b>2016</b> , 109-119		0
13	The Mechanics of Bloodstain Pattern Formation <b>2012</b> , 99-136		0
12	Integrating Indigenous Knowledge and Western Science for Developing Culturally Sustainable Resources. <i>Journal of Natural Fibers</i> , <b>2012</b> , 9, 168-179	1.8	0
11	Ballistic protective properties of material representative of English civil war buff-coats and clothing. <i>International Journal of Legal Medicine</i> , <b>2020</b> , 134, 1949-1956	3.1	0
10	Performance of police personal protective equipment challenged with a military grenade. <i>The Police Journal: A Quarterly Review for the Police Forces of the Commonwealth and English-speaking World</i> , <b>2019</b> , 92, 191-202	0.9	
9	Fibres and Textiles <b>2012</b> , 137-157		
8	Basic Principles of Biomechanics7-33		
7	Woven Fabrics in Book Conservation: An Investigation into the Properties of Aerolinen and Aerocotton. <i>Studies in Conservation</i> , <b>2020</b> , 65, 375-387	0.6	
6	The effect of underwired and sports bras on breast shape, key anthropometric dimensions, and body armour comfort. <i>The Police Journal: A Quarterly Review for the Police Forces of the Commonwealth and English-speaking World</i> ,0032258X2110116	0.9	
5	Physical Models: Tissue Simulants <b>2016</b> , 145-153		
4	High performance fabrics and 3D materials <b>2016</b> , 41-53		
3	Energised Fragments, Bullets and Fragment Simulating Projectiles <b>2016</b> , 219-226		

- 2 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 0.9
- 1 The effect of reactive dyeing of fabric on the morphology of passive bloodstains.. *Forensic Science International*, **2022**, 336, 111317 2.6