David O Carter

List of Publications by Citations

71 papers	2,201 citations	22 h-index	46 g-index
72 ext. papers	2,705 ext. citations	3.8 avg, IF	5.01 L-index

#	Paper	IF	Citations
71	Cadaver decomposition in terrestrial ecosystems. *Die Naturwissenschaften*, **2007**, 94, 12-24	2	372
70	Microbial community assembly and metabolic function during mammalian corpse decomposition. *Science*, **2016**, 351, 158-62	33.3	256
69	A microbial clock provides an accurate estimate of the postmortem interval in a mouse model system. *ELife*, **2013**, 2, e01104	8.9	183
68	Moisture can be the dominant environmental parameter governing cadaver decomposition in soil. *Forensic Science International*, **2010**, 200, 60-6	2.6	111
67	Temperature affects microbial decomposition of cadavers (Rattus rattus) in contrasting soils. *Applied Soil Ecology*, **2008**, 40, 129-137	5	104
66	The biochemical alteration of soil beneath a decomposing carcass. *Forensic Science International*, **2008**, 180, 70-5	2.6	96
65	Taphonomic Mycota: Fungi with Forensic Potential. *Journal of Forensic Sciences*, **2003**, 48, 2002169	1.8	67
64	Microbial decomposition of skeletal muscle tissue (Ovis aries) in a sandy loam soil at different temperatures. *Soil Biology and Biochemistry*, **2006**, 38, 1139-1145	7.5	63
63	Vertebrate decomposition is accelerated by soil microbes. *Applied and Environmental Microbiology*, **2014**, 80, 4920-9	4.8	62
62	Seasonal variation of postmortem microbial communities. *Forensic Science, Medicine, and Pathology*, **2015**, 11, 202-7	1.5	61
61	Microbiome Tools for Forensic Science. *Trends in Biotechnology*, **2017**, 35, 814-823	15.1	59
60	Autoclaving kills soil microbes yet soil enzymes remain active. *Pedobiologia*, **2007**, 51, 295-299	1.7	56
59	Seasonal variation of carcass decomposition and gravesoil chemistry in a cold (Dfa) climate. *Journal of Forensic Sciences*, **2013**, 58, 1175-82	1.8	48
58	Carcass mass can influence rate of decomposition and release of ninhydrin-reactive nitrogen into gravesoil. *Forensic Science International*, **2011**, 209, 80-5	2.6	46
57	Measurement of ninhydrin reactive nitrogen influx into gravesoil during aboveground and belowground carcass (Sus domesticus) decomposition. *Forensic Science International*, **2009**, 193, 37-41	2.6	44
56	Microbiome Data Accurately Predicts the Postmortem Interval Using Random Forest Regression Models. *Genes*, **2018**, 9,	4.2	42
55	Using ninhydrin to detect gravesoil. *Journal of Forensic Sciences*, **2008**, 53, 397-400	1.8	40

54	Mushrooms and taphonomy: the fungi that mark woodland graves. *The Mycologist*, **2003**, 17, 20-24		35
53	Carcass mass has little influence on the structure of gravesoil microbial communities. *International Journal of Legal Medicine*, **2016**, 130, 253-63	3.1	34
52	Potential carcass enrichment of the University of Tennessee Anthropology Research Facility: a baseline survey of edaphic features. *Forensic Science International*, **2012**, 222, 4-10	2.6	30
51	Does repeated burial of skeletal muscle tissue (Ovis aries) in soil affect subsequent decomposition?. *Applied Soil Ecology*, **2008**, 40, 529-535	5	28
50	Microbiology of death. *Current Biology*, **2016**, 26, R561-R563	6.3	27
49	A Laboratory Incubation Method for Determining the Rate of Microbiological Degradation of Skeletal Muscle Tissue in Soil. *Journal of Forensic Sciences*, **2004**, 49, 1-6	1.8	22
48	An initial investigation into the ecology of culturable aerobic postmortem bacteria. *Science and Justice - Journal of the Forensic Science Society*, **2015**, 55, 394-401	2	20
47	Trace Evidence Potential in Postmortem Skin Microbiomes: From Death Scene to Morgue. *Journal of Forensic Sciences*, **2019**, 64, 791-798	1.8	19
46	Toward a universal equation to estimate postmortem interval. *Forensic Science International*, **2017**, 272, 150-153	2.6	18
45	Alteration of expirated bloodstain patterns by Calliphora vicina and Lucilia sericata (Diptera: Calliphoridae) through ingestion and deposition of artifacts. *Journal of Forensic Sciences*, **2011**, 56 Suppl 1, S123-7	1.8	18
44	Volatile Organic Compound Profiling from Postmortem Microbes using Gas Chromatography-Mass Spectrometry. *Journal of Forensic Sciences*, **2020**, 65, 134-143	1.8	18
43	Using bacterial and necrophagous insect dynamics for post-mortem interval estimation during cold season: Novel case study in Romania. *Forensic Science International*, **2015**, 254, 106-17	2.6	17
42	Changes in the morphology and presumptive chemistry of impact and pooled bloodstain patterns by Lucilia sericata (Meigen) (Diptera: Calliphoridae). *Journal of Forensic Sciences*, **2011**, 56, 1315-8	1.8	15
41	Dynamics of ninhydrin-reactive nitrogen and pH in gravesoil during the extended postmortem interval. *Journal of Forensic Sciences*, **2013**, 58, 1348-52	1.8	14
40	Simulations with Elaborated Worked Example Modeling: Beneficial Effects on Schema Acquisition. *Journal of Science Education and Technology*, **2008**, 17, 262-273	2.8	14
39	A laboratory incubation method for determining the rate of microbiological degradation of skeletal muscle tissue in soil. *Journal of Forensic Sciences*, **2004**, 49, 560-5	1.8	12
38	The microbiology, pH, and oxidation reduction potential of larval masses in decomposing carcasses on Oahu, Hawaii. *Journal of Clinical Forensic and Legal Medicine*, **2019**, 67, 37-48	1.7	11
37	Sampling Dynamics for Volatile Organic Compounds Using Headspace Solid-Phase Microextraction Arrow for Microbiological Samples. *Separations*, **2018**, 5, 45	3.1	11

36	Decomposition Studies Using Animal Models in Contrasting Environments: Evidence from Temporal Changes in Soil Chemistry and Microbial Activity **2009**, 357-377		10
35	Microbial communities associated with decomposing corpses **2017**, 245-273		9
34	The suitability of visual taphonomic methods for digital photographs: An experimental approach with pig carcasses in a tropical climate. *Science and Justice - Journal of the Forensic Science Society*, **2018**, 58, 167-176	2	9
33	An Experiment to Characterize the Decomposer Community Associated with Carcasses (Sus scrofa domesticus) on Oahu, Hawaii. *Journal of Forensic Sciences*, **2019**, 64, 1412-1420	1.8	8
32	Characterizing the postmortem human bone microbiome from surface-decomposed remains. *PLoS ONE*, **2020**, 15, e0218636	3.7	8
31	Research in Forensic Taphonomy: A Soil-Based Perspective **2009**, 317-331		8
30	Taphonomic mycota: fungi with forensic potential. *Journal of Forensic Sciences*, **2003**, 48, 168-71	1.8	8
29	Postmortem bacterial translocation **2017**, 192-211		7
28	Microbes, anthropology, and bones **2017**, 312-327		5
27	New evidence of predation on humans by cookiecutter sharks in Kauai, Hawaii. *International Journal of Legal Medicine*, **2018**, 132, 1381-1387	3.1	5
26	The impact of carrion decomposition on the fatty acid methyl ester (FAME) profiles of soil microbial communities in southern Canada. *Journal of the Canadian Society of Forensic Science*, **2016**, 49, 1-18	0.5	5
25	History, current, and future use of microorganisms as physical evidence **2017**, 25-55		4
24	Author response: A microbial clock provides an accurate estimate of the postmortem interval in a mouse model system **2013**,		4
23	Human Bone Proteomes before and after Decomposition: Investigating the Effects of Biological Variation and Taphonomic Alteration on Bone Protein Profiles and the Implications for Forensic Proteomics. *Journal of Proteome Research*, **2021**, 20, 2533-2546	5.6	4
22	Relationships between Human Remains, Graves and the Depositional Environment **2017**, 143-154		3
21	Fluorescence Imaging of Posterior Spiracles from Second and Third Instars of Forensically Important Chrysomya rufifacies (Diptera: Calliphoridae). *Journal of Forensic Sciences*, **2016**, 61, 1578-1587	1.8	3
20	A primer on microbiology **2017**, 1-24		2
19	Forensic microbiology in built environments **2017**, 328-338		2

18	An introduction to metagenomic data generation, analysis, visualization, and interpretation **2017**, 94-126		2
17	The importance of microbial communities in the estimation of the time since death **2020**, 109-139		2
16	Ground penetrating radar use in three contrasting soil textures in southern Ontario. *Geological Society Special Publication*, **2013**, 384, 221-228	1.7	2
15	The Effects of Inter-Individual Biological Differences and Taphonomic Alteration on Human Bone Protein Profiles: Implications for the Development of PMI/AAD Estimation Methods		2
14	Patterns of microbial colonization of human bone from surface-decomposed remains		2
13	Using microbiome tools for estimating the postmortem interval **2020**, 171-191		2
12	Animal models for understanding microbial decomposition of human remains. *Drug Discovery Today: Disease Models*, **2018**, 28, 117-125	1.3	2
11	Can Temperature Affect the Release of Ninhydrin-Reactive Nitrogen in Gravesoil Following the Burial of a Mammalian (Rattus rattus) Cadaver? **2009**, 333-340		2
10	Arthropod□microbe interactions on vertebrate remains **2017**, 274-311		1
9	Approaches and considerations for forensic microbiology decomposition research **2017**, 56-71		1
8	Sampling methods and data generation **2017**, 72-93		1
7	Culture and long-term storage of microorganisms for forensic science **2017**, 127-145		1
6	Clinical microbiology and virology in the context of the autopsy **2017**, 146-191		1
5	Perspectives on the future of forensic microbiology **2017**, 376-378		1
4	Cleaning Puparia for Forensic Analysis. *Journal of Forensic Sciences*, **2016**, 61, 1356-8	1.8	1
3	A Pilot Study of Microbial Succession in Human Rib Skeletal Remains during Terrestrial Decomposition. *MSphere*, **2021**, 6, e0045521	5	1
2	Postmortem Skeletal Microbial Community Composition and Function in Buried Human Remains.. *MSystems*, **2022**, e0004122	7.6	0
1	Changes in Soil Microbial Activity Following Cadaver Decomposition During Spring and Summer Months in Southern Ontario. *Soil Forensics*, **2016**, 243-262		