

EPSRC Centre for Doctoral Training in Advanced Composites for Innovation and Science (ACCIS CDT)

EPSRC Centre for Doctoral Training in Composites Science, Engineering and Manufacturing (CoSEM CDT)

Student publications 2011-2019

<http://www.bristol.ac.uk/composites/cdt/student-publications/>

CDT student author(s) shown in bold.

2019 publications

- **R.L. Lincoln**, F. Scarpa, V.P. Ting, R.S. Trask, Multifunctional composites: a metamaterial perspective, Multifunctional Materials, Volume 2, Number 4, 31 December 2019, 043001 (<http://dx.doi.org/10.1088/2399-7532/ab5242>)
- M.P. O'Donnell, **J.P. Stacey**, I.V. Chenchiah, A. Pirrera, Multiscale tailoring of helical lattice systems for bespoke thermoelasticity, Journal of the Mechanics and Physics of Solids, Volume 133, December 2019, 103704 (<https://doi.org/10.1016/j.jmps.2019.103704>)
- **A.K.W. Hii**, S. Minera, R.M.J. Groh, A. Pirrera, L.F. Kawashita, Three-dimensional stress analyses of complex laminated shells with a variable-kinematics continuum shell element, Composite Structures, Volume 229, December 2019, 111405 (<https://doi.org/10.1016/j.compstruct.2019.111405>)
- H.V. Doan, H. Amer Hamzah, P. Karikkethu Prabhakaran, **C. Petrillo**, V.P. Ting, Hierarchical metal–organic frameworks with macroporosity: Synthesis, achievements, and challenges, Nano-Micro Letters, Volume 11, Issue 1, Article 54, December 2019 (<https://doi.org/10.1007/s40820-019-0286-9>)
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- **Y. He**, A. Suliga, A. Brinkmeyer, M. Schenk, I. Hamerton, Atomic oxygen degradation mechanisms of epoxy composites for space applications, Polymer Degradation and Stability, Volume 166, August 2019, Pages 108-120 (<https://doi.org/10.1016/j.polymdegradstab.2019.05.026>)

- C. Xiang, J. Guo, **R. Sun**, A. Hinit, T Helps, M. Taghavi, J. Rossiter, Electroactive textile actuators for breathability control and thermal regulation devices, *Polymers*, Volume 11, Issue 7, July 2019, 1199 (<https://doi.org/10.3390/polym11071199>)
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- **J. Stacey**, M. O'Donnell, M.Schenk, Thermal prestress in composite compliant shell mechanisms, *Journal of Mechanisms and Robotics*, Volume 11, Issue 2, February 2019, (<https://doi.org/10.1115/1.4042476>)
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- **J. Alston**, A. Croxford, J. Potter, P. Blanloeuil, Nonlinear non-collinear ultrasonic detection and characterisation of kissing bonds, *NDT & E International*, Volume 99, October 2018, Pages 105-116 (<https://doi.org/10.1016/j.ndteint.2018.07.003>)
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- **R. Sun**, B. Zhang, L. Yang, W. Zhang, I. Farrow, F. Scarpa, J. Rossiter, Kirigami stretchable strain sensors with enhanced piezoelectricity induced by topological electrodes, *Applied Physics Letters*, Volume 112, Issue 25, June 2018, 251904 (<https://doi.org/10.1063/1.5025025>)
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- **H.V. Jones**, A. Roudaut, A.P. Chatzimichali, K.D. Potter, C. Ward, The Dibber: Designing a standardised handheld tool for lay-up tasks, *Applied Ergonomics*, Volume 65, November 2017, Pages 240-254 (<http://dx.doi.org/10.1016/j.apergo.2017.05.014>)
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- **S.R.G. Bates**, I.R. Farrow, R. S. Trask, 3D printed polyurethane honeycombs for repeated tailored energy absorption, *Materials & Design*, Volume 112, 15 December 2016, Pages 172-183 (<http://dx.doi.org/10.1016/j.matdes.2016.08.062>)
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- **J. S. Chilles**, A.F. Koutsomitopoulou, A.J. Croxford, I.P. Bond, Monitoring cure and detecting damage in composites with inductively coupled embedded sensors, *Composites Science and Technology*, Volume 134, 6 October 2016, Pages 81-88 (<http://dx.doi.org/10.1016/j.compscitech.2016.07.028>)
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