

Galane J Luo

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|---|--|-----|-----------|
| 1 | Mathematical principles and models of plant growth mechanics: from cell wall dynamics to tissue morphogenesis. <i>Journal of Experimental Botany</i> , 2019, 70, 3587-3600. | 2.4 | 35 |
| 2 | A generalised Davydov-Scott model for polarons in linear peptide chains. <i>European Physical Journal B</i> , 2017, 90, 1. | 0.6 | 13 |
| 3 | Long-range donor-acceptor electron transport mediated by $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mi} \rangle \hat{I} \pm \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ helices. <i>Physical Review E</i> , 2019, 100, 062205. | 0.8 | 7 |
| 4 | Lockhart with a twist: Modelling cellulose microfibril deposition and reorientation reveals twisting plant cell growth mechanisms. <i>Journal of Theoretical Biology</i> , 2021, 525, 110736. | 0.8 | 5 |
| 5 | Exact analytical solution of a novel modified nonlinear Schrödinger equation: Solitary quantum waves on a lattice. <i>Studies in Applied Mathematics</i> , 2021, 146, 550-562. | 1.1 | 4 |
| 6 | Sub-picosecond proton tunnelling in deformed DNA hydrogen bonds under an asymmetric double-oscillator model. <i>European Physical Journal E</i> , 2018, 41, 81. | 0.7 | 2 |
| 7 | Directed polaron propagation in linear polypeptides induced by intramolecular vibrations and external electric pulses. <i>Physical Review E</i> , 2018, 98, 012401. | 0.8 | 2 |