# Andrew Lewis

## List of Publications by Year
## in descending order

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|---|---|---|---|
| 24 papers | 15,526 citations | 471061<br>17 h-index | 752256<br>20 g-index |
| 24 all docs | 24 docs citations | 24 times ranked | 8874 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Grey Wolf Optimizer. Advances in Engineering Software, 2014, 69, 46-61. | 1.8 | 11,382 |
| 2 | Grasshopper Optimisation Algorithm: Theory and application. Advances in Engineering Software, 2017, 105, 30-47. | 1.8 | 1,938 |
| 3 | S-shaped versus V-shaped transfer functions for binary Particle Swarm Optimization. Swarm and Evolutionary Computation, 2013, 9, 1-14. | 4.5 | 814 |
| 4 | Biogeography-based optimisation with chaos. Neural Computing and Applications, 2014, 25, 1077-1097. | 3.2 | 273 |
| 5 | Let a biogeography-based optimizer train your Multi-Layer Perceptron. Information Sciences, 2014, 269, 188-209. | 4.0 | 263 |
| 6 | Adaptive gbest-guided gravitational search algorithm. Neural Computing and Applications, 2014, 25, 1569-1584. | 3.2 | 174 |
| 7 | A Parallel Implementation of Ant Colony Optimization. Journal of Parallel and Distributed Computing, 2002, 62, 1421-1432. | 2.7 | 168 |
| 8 | Autonomous Particles Groups for Particle Swarm Optimization. Arabian Journal for Science and Engineering, 2014, 39, 4683-4697. | 1.1 | 122 |
| 9 | Novel performance metrics for robust multi-objective optimization algorithms. Swarm and Evolutionary Computation, 2015, 21, 1-23. | 4.5 | 66 |
| 10 | How important is a transfer function in discrete heuristic algorithms. Neural Computing and Applications, 2015, 26, 625-640. | 3.2 | 60 |
| 11 | Particle Swarm Optimization: Theory, Literature Review, and Application in Airfoil Design. Studies in Computational Intelligence, 2020, , 167-184. | 0.7 | 33 |
| 12 | Ant Colony Optimizer: Theory, Literature Review, and Application in AUV Path Planning. Studies in Computational Intelligence, 2020, , 7-21. | 0.7 | 31 |
| 13 | Novel frameworks for creating robust multi-objective benchmark problems. Information Sciences, 2015, 300, 158-192. | 4.0 | 25 |
| 14 | Obstacles and difficulties for robust benchmark problems: A novel penalty-based robust optimisation method. Information Sciences, 2016, 328, 485-509. | 4.0 | 25 |
| 15 | Interactive multi-objective particle swarm optimization with heatmap-visualization-based user interface. Engineering Optimization, 2010, 42, 119-139. | 1.5 | 23 |
| 16 | Asynchronous Multi-Objective Optimisation in Unreliable Distributed Environments. Studies in Computational Intelligence, 2009, , 51-78. | 0.7 | 22 |
| 17 | A tri-objective Particle Swarm Optimizer for designing line defect Photonic Crystal Waveguides. Photonics and Nanostructures - Fundamentals and Applications, 2014, 12, 152-163. | 1.0 | 21 |
| 18 | Confidence-based robust optimisation using multi-objective meta-heuristics. Swarm and Evolutionary Computation, 2018, 43, 109-126. | 4.5 | 17 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 19 | Using Ant Colony Optimisation to Construct Meander-Line RFID Antennas. Studies in Computational Intelligence, 2009, , 189-217. | 0.7 | 15 |
| 20 | Using Ant Colony Optimisation to Improve the Efficiency of Small Meander Line RFID Antennas. , 2007, , . | | 14 |
| 21 | Asynchronous multiple objective particle swarm optimisation in unreliable distributed environments. , 2008, , . | | 14 |
| 22 | Interactive multi-objective particle swarm optimisation using decision space interaction. , 2013, , . | | 13 |
| 23 | A Web-based System for Visualisation-driven Interactive Multi-objective Optimisation. Procedia Computer Science, 2014, 29, 1915-1925. | 1.2 | 10 |
| 24 | Pheromone Pre-seeding for the Construction of RFID Antenna Structures Using ACO. , 2010, , . | | 3 |