

James E Hilton

List of Publications by Year in descending order

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56
papers

1,514
citations

304368

22
h-index

329751

37
g-index

56
all docs

56
docs citations

56
times ranked

1647
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of gas–solid fluidised beds with non-spherical particle geometry. <i>Chemical Engineering Science</i> , 2010, 65, 1584-1596.	1.9	168
2	The influence of particle shape on flow modes in pneumatic conveying. <i>Chemical Engineering Science</i> , 2011, 66, 231-240.	1.9	122
3	Carotid Artery Anatomy and Geometry as Risk Factors for Carotid Atherosclerotic Disease. <i>Stroke</i> , 2012, 43, 1596-1601.	1.0	104
4	Granular flow during hopper discharge. <i>Physical Review E</i> , 2011, 84, 011307.	0.8	88
5	Defining random loose packing for nonspherical grains. <i>Physical Review E</i> , 2011, 83, 051305.	0.8	68
6	In vivo EPR for dosimetry. <i>Radiation Measurements</i> , 2007, 42, 1075-1084.	0.7	64
7	Modelling of industrial particle and multiphase flows. <i>Powder Technology</i> , 2017, 314, 232-252.	2.1	60
8	Raceway formation in laterally gas-driven particle beds. <i>Chemical Engineering Science</i> , 2012, 80, 306-316.	1.9	54
9	Comparison of non-cohesive resolved and coarse grain DEM models for gas flow through particle beds. <i>Applied Mathematical Modelling</i> , 2014, 38, 4197-4214.	2.2	52
10	Non-universal Voronoi cell shapes in amorphous ellipsoid packs. <i>Europhysics Letters</i> , 2015, 111, 24002.	0.7	47
11	Modelling spray coating using a combined CFD–DEM and spherical harmonic formulation. <i>Chemical Engineering Science</i> , 2013, 99, 141-160.	1.9	46
12	Effects of spatial and temporal variation in environmental conditions on simulation of wildfire spread. <i>Environmental Modelling and Software</i> , 2015, 67, 118-127.	1.9	45
13	Drag force on a spherical intruder in a granular bed at low Froude number. <i>Physical Review E</i> , 2013, 88, 062203.	0.8	39
14	Cloud Computing in natural hazard modeling systems: Current research trends and future directions. <i>International Journal of Disaster Risk Reduction</i> , 2019, 38, 101188.	1.8	37
15	An adjustable linear Halbach array. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 2051-2056.	1.0	35
16	Dust modelling using a combined CFD and discrete element–% formulation. <i>International Journal for Numerical Methods in Fluids</i> , 2013, 72, 528-549.	0.9	31
17	Design and application of a magnetic field gradient electrode. <i>Electrochemistry Communications</i> , 2007, 9, 155-158.	2.3	30
18	Curvature effects in the dynamic propagation of wildfires. <i>International Journal of Wildland Fire</i> , 2016, 25, 1238.	1.0	26

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19	Assessing sea level-rise risks to coastal floodplains in the Kakadu Region, northern Australia, using a tidally driven hydrodynamic model. <i>Marine and Freshwater Research</i> , 2018, 69, 1064.	0.7	26
20	Stick-slip and force chain evolution in a granular bed in response to a grain intruder. <i>Physical Review E</i> , 2014, 89, 042207.	0.8	24
21	Rain-triggered lahar susceptibility using a shallow landslide and surface erosion model. <i>Geomorphology</i> , 2016, 273, 168-177.	1.1	24
22	The Vegetation Structure Perpendicular Index (VSPi): A forest condition index for wildfire predictions. <i>Remote Sensing of Environment</i> , 2019, 224, 167-181.	4.6	24
23	Levitation in paramagnetic liquids. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 316, 273-276.	1.0	23
24	Incorporating convective feedback in wildfire simulations using pyrogenic potential. <i>Environmental Modelling and Software</i> , 2018, 107, 12-24.	1.9	23
25	SPARK – A Bushfire Spread Prediction Tool. <i>IFIP Advances in Information and Communication Technology</i> , 2015, , 262-271.	0.5	21
26	Impact of mechanical thinning on forest carbon, fuel hazard and simulated fire behaviour in <i>Eucalyptus delegatensis</i> forest of south-eastern Australia. <i>Forest Ecology and Management</i> , 2017, 405, 92-100.	1.4	20
27	Workspace: A workflow platform for supporting development and deployment of modelling and simulation. <i>Mathematics and Computers in Simulation</i> , 2020, 175, 25-61.	2.4	14
28	Computer Modeling of Anterior Circulation Stroke: Proof of Concept in Cerebrovascular Occlusion. <i>Frontiers in Neurology</i> , 2014, 5, 176.	1.1	13
29	A cloud-based framework for sensitivity analysis of natural hazard models. <i>Environmental Modelling and Software</i> , 2020, 134, 104800.	1.9	13
30	Investigation of the effects of interactions of intersecting oblique fire lines with and without wind in a combustion wind tunnel. <i>International Journal of Wildland Fire</i> , 2019, 28, 704.	1.0	12
31	Halbach Cylinders With Improved Field Homogeneity and Tailored Gradient Fields. <i>IEEE Transactions on Magnetics</i> , 2007, 43, 1898-1902.	1.2	11
32	Radiant heat flux modelling for wildfires. <i>Mathematics and Computers in Simulation</i> , 2020, 175, 62-80.	2.4	10
33	River reconstruction using a conformal mapping method. <i>Environmental Modelling and Software</i> , 2019, 119, 197-213.	1.9	9
34	Effect of fuel spatial resolution on predictive wildfire models. <i>International Journal of Wildland Fire</i> , 2021, 30, 776-789.	1.0	9
35	Dynamics of charged hemispherical soap bubbles. <i>Europhysics Letters</i> , 2009, 86, 24003.	0.7	8
36	The effect of rotational shear on granular discharge rates. <i>Physics of Fluids</i> , 2010, 22, 071701.	1.6	8

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37	Does the principle of minimum work apply at the carotid bifurcation: a retrospective cohort study. BMC Medical Imaging, 2011, 11, 17.	1.4	8
38	An efficient framework for ensemble of natural disaster simulations as a service. Geoscience Frontiers, 2020, 11, 1859-1873.	4.3	8
39	Effect of weather forecast errors on fire growth model projections. International Journal of Wildland Fire, 2020, 29, 983.	1.0	8
40	Modeling Vorticity-Driven Wildfire Behavior Using Near-Field Techniques. Frontiers in Mechanical Engineering, 2020, 5, .	0.8	8
41	Anterior Cerebral Artery Stroke: Role of Collateral Systems on Infarct Topography. Stroke, 2021, 52, 2930-2938.	1.0	8
42	Global sensitivity analysis for uncertainty quantification in fire spread models. Environmental Modelling and Software, 2021, 143, 105110.	1.9	8
43	A Surrogate Model for Rapidly Assessing the Size of a Wildfire over Time. Fire, 2021, 4, 20.	1.2	7
44	Computer Modeling of Clot Retrievalâ€”Circle of Willis. Frontiers in Neurology, 2020, 11, 773.	1.1	6
45	RADAR-Vegetation Structural Perpendicular Index (R-VSPI) for the Quantification of Wildfire Impact and Post-Fire Vegetation Recovery. Remote Sensing, 2022, 14, 3132.	1.8	6
46	A power series formulation for two-dimensional wildfire shapes. International Journal of Wildland Fire, 2016, 25, 970.	1.0	5
47	SparkCloud: A Cloud-Based Elastic Bushfire Simulation Service. Remote Sensing, 2018, 10, 74.	1.8	5
48	An evidence based approach to evaluating flood adaptation effectiveness including climate change considerations for coastal cities: City of Port Phillip, Victoria, Australia. Journal of Flood Risk Management, 2020, 13, .	1.6	5
49	Rapid windâ€”terrain correction for wildfire simulations. International Journal of Wildland Fire, 2021, 30, 410.	1.0	5
50	A MULTISCALE METHOD FOR GEOPHYSICAL FLOW EVENTS. International Journal for Multiscale Computational Engineering, 2012, 10, 375-390.	0.8	5
51	A probability-based risk metric for operational wildfire risk management. Environmental Modelling and Software, 2022, 148, 105286.	1.9	4
52	Unitary stick-slip motion in granular beds. , 2013, , .		3
53	Coupled gas-particulate discharge from a bucket elevator. Powder Technology, 2017, 314, 203-217.	2.1	3
54	The Vegetation Structure Perpendicular Index for Wildfire Severity and Forest Recovery Monitoring. , 2018, , .		3

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55	The role of inter-grain friction in determining the mechanical and structural properties of superellipsoid packings. , 2013, , .		1
56	Estimation of Forest Structure with the Vegetation Structure Perpendicular Index (VSPI) for Dynamic Fire Spread Simulations. , 2019, , .		0