

James E Hilton

List of Publications by Year in descending order

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Version: 2024-02-01

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	A probability-based risk metric for operational wildfire risk management. <i>Environmental Modelling and Software</i> , 2022, 148, 105286.	1.9	4
2	RADAR-Vegetation Structural Perpendicular Index (R-VSPI) for the Quantification of Wildfire Impact and Post-Fire Vegetation Recovery. <i>Remote Sensing</i> , 2022, 14, 3132.	1.8	6
3	Rapid wind-terrain correction for wildfire simulations. <i>International Journal of Wildland Fire</i> , 2021, 30, 410.	1.0	5
4	Effect of fuel spatial resolution on predictive wildfire models. <i>International Journal of Wildland Fire</i> , 2021, 30, 776-789.	1.0	9
5	A Surrogate Model for Rapidly Assessing the Size of a Wildfire over Time. <i>Fire</i> , 2021, 4, 20.	1.2	7
6	Anterior Cerebral Artery Stroke: Role of Collateral Systems on Infarct Topography. <i>Stroke</i> , 2021, 52, 2930-2938.	1.0	8
7	Global sensitivity analysis for uncertainty quantification in fire spread models. <i>Environmental Modelling and Software</i> , 2021, 143, 105110.	1.9	8
8	Radiant heat flux modelling for wildfires. <i>Mathematics and Computers in Simulation</i> , 2020, 175, 62-80.	2.4	10
9	An evidence based approach to evaluating flood adaptation effectiveness including climate change considerations for coastal cities: City of Port Phillip, Victoria, Australia. <i>Journal of Flood Risk Management</i> , 2020, 13, .	1.6	5
10	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
11	An efficient framework for ensemble of natural disaster simulations as a service. <i>Geoscience Frontiers</i> , 2020, 11, 1859-1873.	4.3	8
12	Computer Modeling of Clot Retrieval-Circle of Willis. <i>Frontiers in Neurology</i> , 2020, 11, 773.	1.1	6
13	A cloud-based framework for sensitivity analysis of natural hazard models. <i>Environmental Modelling and Software</i> , 2020, 134, 104800.	1.9	13
14	Effect of weather forecast errors on fire growth model projections. <i>International Journal of Wildland Fire</i> , 2020, 29, 983.	1.0	8
15	Modeling Vorticity-Driven Wildfire Behavior Using Near-Field Techniques. <i>Frontiers in Mechanical Engineering</i> , 2020, 5, .	0.8	8
16	River reconstruction using a conformal mapping method. <i>Environmental Modelling and Software</i> , 2019, 119, 197-213.	1.9	9
17	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
18	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

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19	Estimation of Forest Structure with the Vegetation Structure Perpendicular Index (VSPI) for Dynamic Fire Spread Simulations. , 2019, , .		0
20	Investigation of the effects of interactions of intersecting oblique fire lines with and without wind in a combustion wind tunnel. International Journal of Wildland Fire, 2019, 28, 704.	1.0	12
21	Assessing sea level-rise risks to coastal floodplains in the Kakadu Region, northern Australia, using a tidally driven hydrodynamic model. Marine and Freshwater Research, 2018, 69, 1064.	0.7	26
22	The Vegetation Structure Perpendicular Index for Wildfire Severity and Forest Recovery Monitoring. , 2018, , .		3
23	SparkCloud: A Cloud-Based Elastic Bushfire Simulation Service. Remote Sensing, 2018, 10, 74.	1.8	5
24	Incorporating convective feedback in wildfire simulations using pyrogenic potential. Environmental Modelling and Software, 2018, 107, 12-24.	1.9	23
25	Coupled gas-particulate discharge from a bucket elevator. Powder Technology, 2017, 314, 203-217.	2.1	3
26	Impact of mechanical thinning on forest carbon, fuel hazard and simulated fire behaviour in Eucalyptus delegatensis forest of south-eastern Australia. Forest Ecology and Management, 2017, 405, 92-100.	1.4	20
27	Modelling of industrial particle and multiphase flows. Powder Technology, 2017, 314, 232-252.	2.1	60
28	Curvature effects in the dynamic propagation of wildfires. International Journal of Wildland Fire, 2016, 25, 1238.	1.0	26
29	A power series formulation for two-dimensional wildfire shapes. International Journal of Wildland Fire, 2016, 25, 970.	1.0	5
30	Rain-triggered lahar susceptibility using a shallow landslide and surface erosion model. Geomorphology, 2016, 273, 168-177.	1.1	24
31	Effects of spatial and temporal variation in environmental conditions on simulation of wildfire spread. Environmental Modelling and Software, 2015, 67, 118-127.	1.9	45
32	Non-universal Voronoi cell shapes in amorphous ellipsoid packs. Europhysics Letters, 2015, 111, 24002.	0.7	47
33	SPARK “ A Bushfire Spread Prediction Tool. IFIP Advances in Information and Communication Technology, 2015, , 262-271.	0.5	21
34	Computer Modeling of Anterior Circulation Stroke: Proof of Concept in Cerebrovascular Occlusion. Frontiers in Neurology, 2014, 5, 176.	1.1	13
35	Comparison of non-cohesive resolved and coarse grain DEM models for gas flow through particle beds. Applied Mathematical Modelling, 2014, 38, 4197-4214.	2.2	52
36	Stick-slip and force chain evolution in a granular bed in response to a grain intruder. Physical Review E, 2014, 89, 042207.	0.8	24

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37	Modelling spray coating using a combined CFD"DEM and spherical harmonic formulation. Chemical Engineering Science, 2013, 99, 141-160.	1.9	46
38	Dust modelling using a combined CFD and discrete element"formulation. International Journal for Numerical Methods in Fluids, 2013, 72, 528-549.	0.9	31
39	Drag force on a spherical intruder in a granular bed at low Froude number. Physical Review E, 2013, 88, 062203.	0.8	39
40	The role of inter-grain friction in determining the mechanical and structural properties of superellipsoid packings. , 2013, , .		1
41	Unitary stick-slip motion in granular beds. , 2013, , .		3
42	Carotid Artery Anatomy and Geometry as Risk Factors for Carotid Atherosclerotic Disease. Stroke, 2012, 43, 1596-1601.	1.0	104
43	Raceway formation in laterally gas-driven particle beds. Chemical Engineering Science, 2012, 80, 306-316.	1.9	54
44	An adjustable linear Halbach array. Journal of Magnetism and Magnetic Materials, 2012, 324, 2051-2056.	1.0	35
45	A MULTISCALE METHOD FOR GEOPHYSICAL FLOW EVENTS. International Journal for Multiscale Computational Engineering, 2012, 10, 375-390.	0.8	5
46	Defining random loose packing for nonspherical grains. Physical Review E, 2011, 83, 051305.	0.8	68
47	Does the principle of minimum work apply at the carotid bifurcation: a retrospective cohort study. BMC Medical Imaging, 2011, 11, 17.	1.4	8
48	The influence of particle shape on flow modes in pneumatic conveying. Chemical Engineering Science, 2011, 66, 231-240.	1.9	122
49	Granular flow during hopper discharge. Physical Review E, 2011, 84, 011307.	0.8	88
50	Dynamics of gas"solid fluidised beds with non-spherical particle geometry. Chemical Engineering Science, 2010, 65, 1584-1596.	1.9	168
51	The effect of rotational shear on granular discharge rates. Physics of Fluids, 2010, 22, 071701.	1.6	8
52	Dynamics of charged hemispherical soap bubbles. Europhysics Letters, 2009, 86, 24003.	0.7	8
53	Design and application of a magnetic field gradient electrode. Electrochemistry Communications, 2007, 9, 155-158.	2.3	30
54	In vivo EPR for dosimetry. Radiation Measurements, 2007, 42, 1075-1084.	0.7	64

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55	Levitation in paramagnetic liquids. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 316, 273-276.	1.0	23
56	Halbach Cylinders With Improved Field Homogeneity and Tailored Gradient Fields. <i>IEEE Transactions on Magnetics</i> , 2007, 43, 1898-1902.	1.2	11