

# Russell A Parsons

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/44026/publications.pdf>

Version: 2024-02-01

14  
papers

541  
citations

759233

12  
h-index

1058476

14  
g-index

15  
all docs

15  
docs citations

15  
times ranked

517  
citing authors

#	ARTICLE	IF	CITATIONS
1	Relationships between moisture, chemistry, and ignition of <i>Pinus contorta</i> needles during the early stages of mountain pine beetle attack. <i>Forest Ecology and Management</i> , 2012, 269, 52-59.	3.2	111
2	Linking 3D spatial models of fuels and fire: Effects of spatial heterogeneity on fire behavior. <i>Ecological Modelling</i> , 2011, 222, 679-691.	2.5	93
3	Numerical Simulation of Crown Fire Hazard Immediately after Bark Beetle-Caused Mortality in Lodgepole Pine Forests. <i>Forest Science</i> , 2012, 58, 178-188.	1.0	52
4	Numerical Investigation of Aggregated Fuel Spatial Pattern Impacts on Fire Behavior. <i>Land</i> , 2017, 6, 43.	2.9	49
5	Modeling spatial and temporal dynamics of wind flow and potential fire behavior following a mountain pine beetle outbreak in a lodgepole pine forest. <i>Agricultural and Forest Meteorology</i> , 2015, 204, 79-93.	4.8	48
6	Modeling fuels and fire effects in 3D: Model description and applications. <i>Environmental Modelling and Software</i> , 2016, 80, 225-244.	4.5	40
7	Advancing the Science of Wildland Fire Dynamics Using Process-Based Models. <i>Fire</i> , 2018, 1, 32.	2.8	35
8	Surface Fire Intensity Influences Simulated Crown Fire Behavior in Lodgepole Pine Forests with Recent Mountain Pine Beetle-Caused Tree Mortality. <i>Forest Science</i> , 2013, 59, 390-399.	1.0	22
9	Modeling thinning effects on fire behavior with STANDFIRE. <i>Annals of Forest Science</i> , 2018, 75, 1.	2.0	21
10	Modeling tree-level fuel connectivity to evaluate the effectiveness of thinning treatments for reducing crown fire potential. <i>Forest Ecology and Management</i> , 2012, 264, 134-149.	3.2	20
11	Deriving Fire Behavior Metrics from UAS Imagery. <i>Fire</i> , 2019, 2, 36.	2.8	20
12	Representativeness of wind measurements in fire experiments: Lessons learned from large-eddy simulations in a homogeneous forest. <i>Agricultural and Forest Meteorology</i> , 2017, 232, 479-488.	4.8	16
13	Simulated western spruce budworm defoliation reduces torching and crowning potential: a sensitivity analysis using a physics-based fire model. <i>International Journal of Wildland Fire</i> , 2014, 23, 709.	2.4	9
14	Mapping Fine-Scale Crown Scorch in 3D with Remotely Piloted Aircraft Systems. <i>Fire</i> , 2022, 5, 59.	2.8	4